



October 24, 2022

District Supervisor
Oil Conservation Division, District 2
506 W. Texas Ave.
Artesia, New Mexico 88210

**Re: Release Characterization and Remediation Work Plan
ConocoPhillips
James E Upper Battery Release
Unit Letter M, Section 12, Township 22 South, Range 30 East
Eddy County, New Mexico
Incident ID# NAPP2202446534**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to assess a release that occurred from the James E Upper Battery. The release footprint is located in Public Land Survey System (PLSS) Unit Letter M, Section 12, Township 22 South, Range 30 East, in Eddy County, New Mexico (Site). The approximate release point occurred at coordinates 32.408505°, -103.840308°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), the release occurred as the result of a failure from the pop off (pressure release valve) on the production separator and was discovered on January 1, 2022. Approximately, 61 barrels (bbls) of crude oil were reported released, of which no bbls were recovered. The release extent was described in the spill calculator as equaling 24,520 square feet. The New Mexico Oil Conservation District (NMOCD) received the C-141 report form for the release on January 6, 2022. The NMOCD Incident ID for this release is NAPP2202446534.

Prior to the January 1, 2022 discovery of the NAPP2202446534 release, a release associated with Incident ID NAPP2200639375 was discovered on December 20, 2021 in the same general area. The NAPP2200639375 release is also due to the failure of the pop off (pressure release valve) on the production separator. Remediation of the December 2021 release will be addressed in a separate report.

SITE CHARACTERIZATION

A site characterization was performed and no sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, stream bodies, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). The Site is in an area of medium karst potential.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within ½ mile (800 meters) of the Site. There is one (1) water well within 3.1 miles (5,000 meters) of the site with a depth to groundwater of 262 feet below ground surface (bgs). As the available water level information was from a well further than ½ mile away from the Site, COP elected to drill a boring associated with the assessment to depth for groundwater verification. On September 8, 2022, a licensed drilling subcontractor was onsite to drill this borehole (DTW) to 55 feet bgs. The borehole was located just outside

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the reported release footprint. The borehole was dry upon completion, and soils were dry from surface to total depth. The depth to groundwater in the area was thus verified as greater than 55 feet bgs. The borehole was plugged with 3/8" bentonite chips. The borehole coordinates are 32.408324°, -103.841301° and the boring location is indicated on Figure 3. The site characterization data, along with the boring log, is included in Appendix B.

REGULATORY FRAMEWORK

Based upon the release footprint 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 chlorides in soil.

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the proposed RRALs for the Site are as follows:

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

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule (19.15.29 NMAC)* (September 6, 2019), the following reclamation requirements for surface soils (0-4 ft bgs) outside of active oil and gas operations are as follows:

Constituent	Reclamation Requirement
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg

INITIAL RESPONSE

In accordance with 19.15.29.8. B. (4) NMAC that states "the responsible party may commence remediation immediately after discovery of a release", COP elected to begin remediation of the impacted area footprint in 2022. The combined release extents, NAPP2202446534 and NAPP2200639375, consisted of approximately 21,700 square feet of oil-gas lease pad and roughly 32,400 square feet of pastureland.

Initial response remedial actions were performed at the release site between January and February 2022. Visibly stained areas were scraped to remove impacted materials. On-pad areas were scraped to approximately 3 to 6 inches below ground surface, resulting in approximately 181 cubic yards of contaminated soil being removed and sent to R360 Halfway Facility in Hobbs, New Mexico. Waste manifests can be found in Appendix C. The initial response area is indicated in Figure 3. Photographic Documentation of the scrape is found in Appendix D.

INITIAL SITE ASSESSMENT ACTIVITIES AND RESULTS

Tetra Tech personnel were onsite to delineate and sample the release area on August 9, 2022. A total of twenty-two (22) soil borings (AH-1 through AH-19) were installed using a hand auger within and around the release to evaluate the vertical and horizontal extent of the release. AH-3, AH-4, AH-6, AH-7 and AH-8 were installed within the release extent to assess the vertical extent of impact. The remainder of the borings were installed around the perimeter of the release footprint to delineate the horizontal extent of impacted soil. The boring locations are shown on Figure 4.

A total of twenty-eight (28) samples were collected from the sample locations and transferred under chain of custody and analyzed within appropriate holding times by Cardinal Laboratories (Cardinal). The soil samples were analyzed for TPH via Method 8015 Modified, chloride via Method SM4500Cl-B, and BTEX via Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix E.

Results from the August 2022 soil sampling event are summarized in Table 1. Analytical results associated with boring location AH-8 exceeded the proposed Site RRALs for TPH in soils. Additionally, results associated with AH-4, AH-7, AH-15 and AH-23 exceeded the proposed RRAL for TPH. All other analytical results from the August 2022 sampling were below Site RRALs. While horizontal delineation of the release area was successful, vertical delineation was not achieved during the August 2022 sampling event due to the TPH exceedances from boring location AH-8.

ADDITIONAL SITE ASSESSMENT ACTIVITIES AND RESULTS

Tetra Tech personnel returned to the Site to complete vertical delineation of the release area on September 14 through 26, 2022. A total of eleven (11) soil borings (BH-1 through BH-7 and AH-20 through AH-23) within the release footprint to a maximum depth of 30 feet bgs. The boring locations are shown on Figure 4.

A total of forty-seven (47) samples were collected from the seven boring locations and transferred under chain of custody and analyzed within appropriate holding times by Cardinal. The soil samples were analyzed for TPH via Method 8015 Modified, chloride via Method SM4500Cl-B, and BTEX via Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix E.

Results from the September 2022 soil sampling event are summarized in Table 2. Analytical results associated with boring locations BH-1 and BH-2 exceeded the RRAL for TPH and/chloride down to a depth of 3 feet bgs. Results from BH-5 and BH-6 exceeded the RRAL for TPH at the 0-1' sample depth interval. All other analytical results from the September 2022 sampling event were below Site RRALs. Analytical results from BH-1, as well as other borings, at depth were below delineation standards for TPH, BTEX and chloride. Following the September 2022 assessment activities, the release is considered delineated.

REMEDIATION WORK PLAN

Based on the analytical results, ConocoPhillips proposes to remove the remaining impacted material as shown on Figure 5. Impacted soils will be excavated using heavy equipment (backhoes, hoe rams, and track hoes) to a maximum depth of 5 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation is below the applicable RRALs. Any area containing pressurized lines will be hand-dug to the proposed depth shown on Figure 5 or the maximum extent practicable; heavy equipment will come no more than 4 feet from any pressurized lines.

Prior to inception of remedial activities, a Request for Approval of the Remediation Work Plan will be sent via email to the Bureau of Land Management (BLM). The BLM will be contacted, and the proposed remedial activities shall be cleared to proceed with the appropriate BLM representatives. Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation bottom and sidewall samples will be collected for verification of remedial activities, and analyzed for TPH, BTEX, and chlorides. The estimated volume of material to be remediated is approximately 1,576 cubic yards.

Based on the results of the Site assessment, no additional soil remediation is necessary in the overspray area north of the lease pad. Analytical results associated with this area were below reclamation requirements for chloride, TPH and BTEX. Based on site photographs taken during the assessment activities, the overspray area contains vegetative cover that reflects a life-form ratio resembling pre-disturbance levels. Thus, reclamation of this area is not necessary.

ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, ConocoPhillips proposes the following alternative confirmation sampling plan to adhere with NMOCD requirements. The proposed confirmation sample locations are depicted in Figure 6. Ten (10) confirmation floor samples and fourteen (14) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 11,950 square feet.

These confirmation sidewall and floor samples will be representative of no more than approximately 500 square feet of excavated area. Confirmation samples will be sent to an accredited analytical laboratory for analysis of chloride, TPH, and BTEX.

SITE RECLAMATION AND RESTORATION PLAN

Once acceptable confirmation sample results are received the excavation will then be backfilled with clean material to surface grade. The backfilled areas within the off-pad pasture will be seeded in the first favorable growing season to aid in revegetation. Based on the location of the Site, the seed mixture for LPC Sand/Shinnery Sites will be used for seeding and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the Bureau of Land Management (BLM) will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. The BLM seed mixture details and corresponding pounds pure live seed per acre are included in Appendix F.

CONCLUSION

ConocoPhillips proposes to begin remediation activities at the Site within 90 days of NMOCD plan approval. The Work Plan for the prior release at the site (Incident ID NAPP2200639375) has been previously submitted under separate cover, along with the proper fee application (PO Number IRPVE-221024-C-1410). As the release footprints coincide and the remediation work plans are nearly identical, should this Work Plan gain NMOCD approval prior to the NAPP2200639375 Work Plan, COP requests the opportunity to remediate both release extents with the approval of this Work Plan.

Upon completion of the proposed work, a final closure report detailing the remediation activities and the results of the confirmation sampling will be submitted to NMOCD. If you have any questions concerning the soil assessment or the proposed remediation activities for the Site, please call me at (512) 217-7254 or Christian at (512) 338-2861.

Sincerely,
Tetra Tech, Inc.



Ryan C Dickerson
Project Lead



Christian M. Llull, P.G.
Program Manager

cc:
Mr. Sam Widmer, RMR – ConocoPhillips
Mr. Charles Beauvais, GPBU - ConocoPhillips

LIST OF ATTACHMENTS

Figures:

- Figure 1 – Overview Map
- Figure 2 – Site Location/Topographic Map
- Figure 3 – Approximate Release Extent and Initial Response
- Figure 4 – Site Assessment
- Figure 5 – Proposed Remediation Extent
- Figure 6 – Alternative Confirmation Sampling Plan

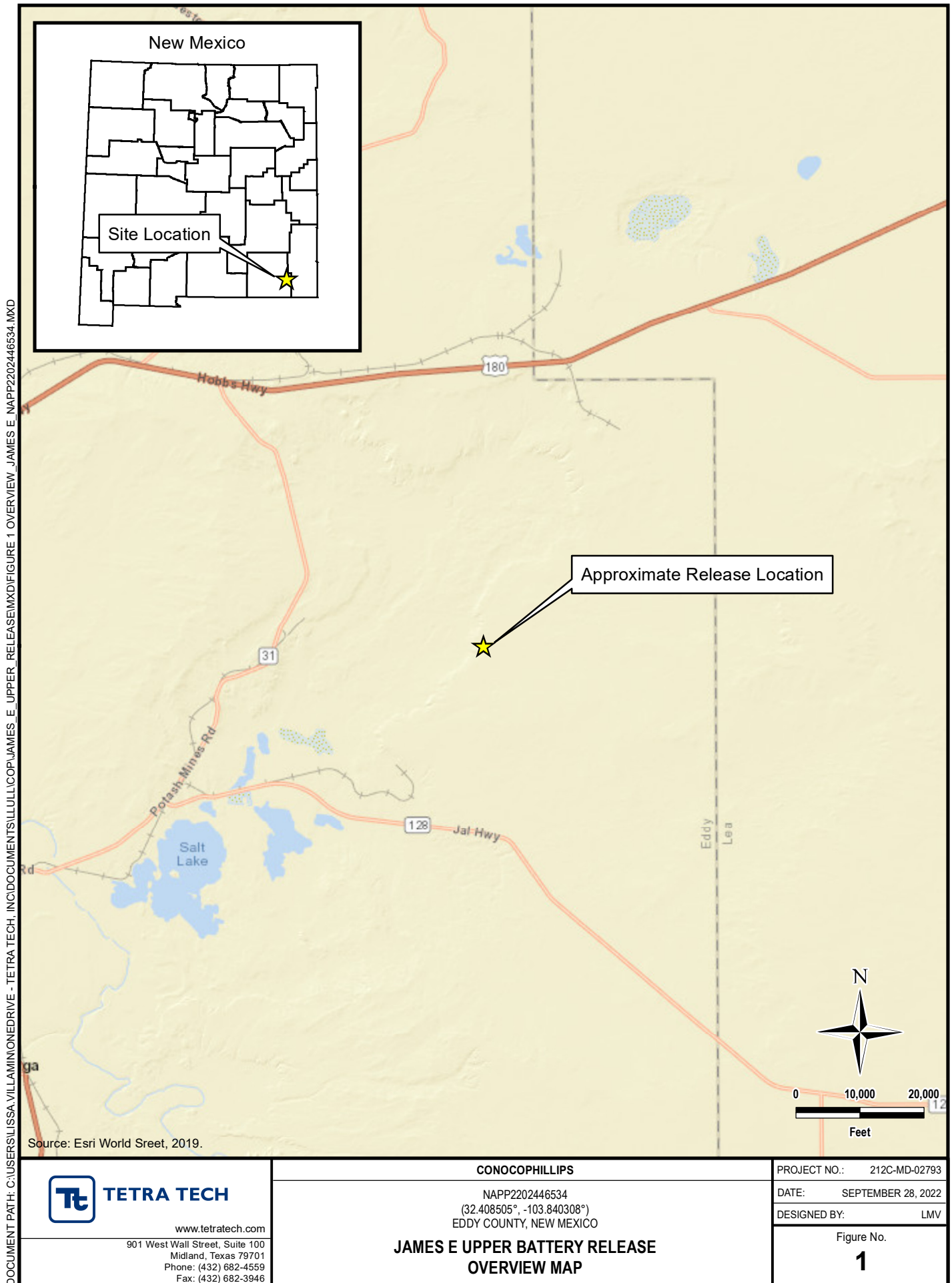
Tables:

- Table 1 – Summary of Analytical Results – Initial Soil Assessment
- Table 2 – Summary of Analytical Results – Additional Soil Assessment

Appendices:

- Appendix A – C-141 Forms
- Appendix B – Site Characterization Data
- Appendix C – Initial Response Waste Manifests
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Analytical Data
- Appendix F – Seed Mixture Details

FIGURES



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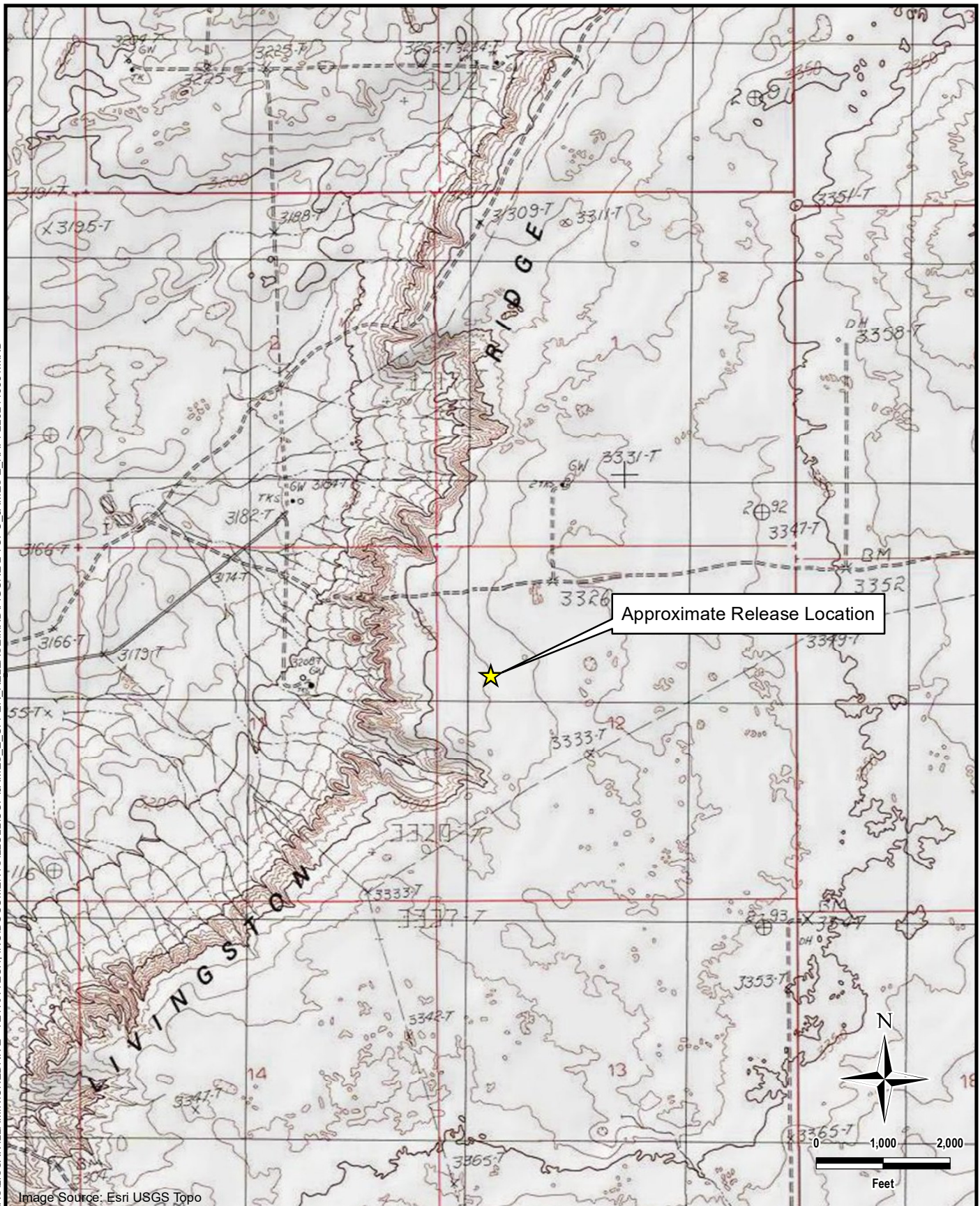


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CONOCOPHILLIPS

NAPP2202446534
(32.408505°, -103.840308°)
EDDY COUNTY, NEW MEXICO

JAMES E UPPER BATTERY RELEASE TOPOGRAPHIC MAP

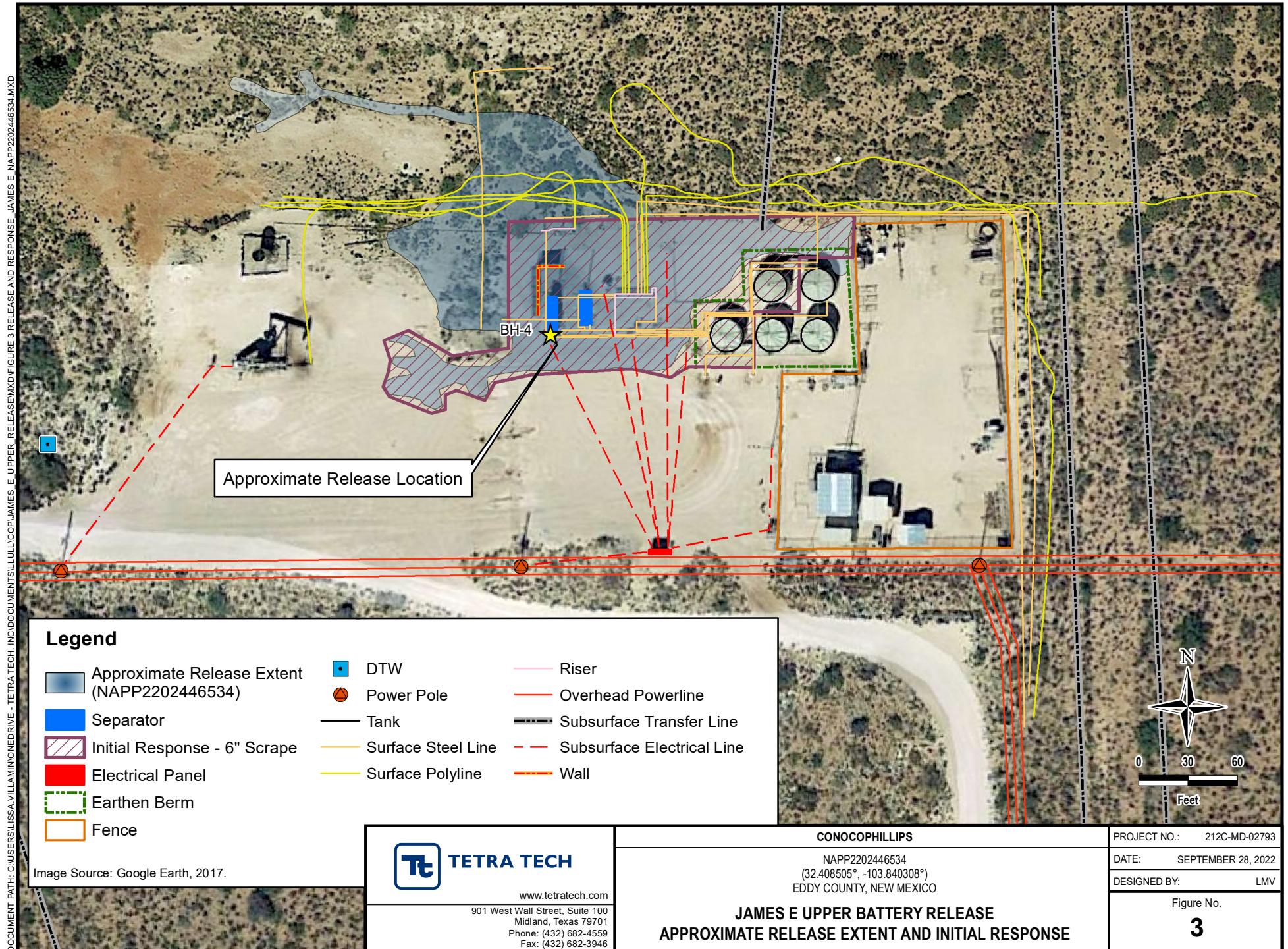
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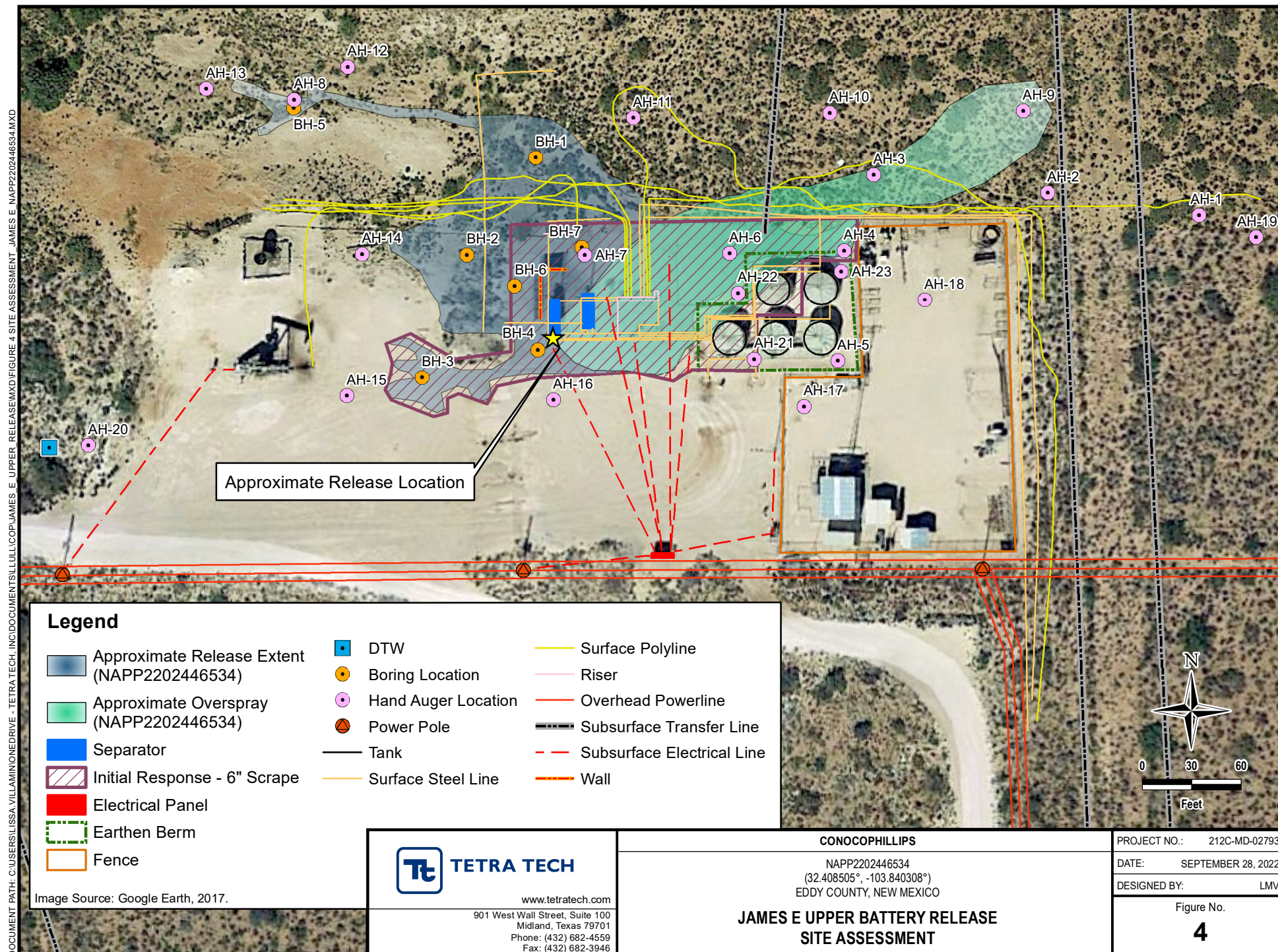
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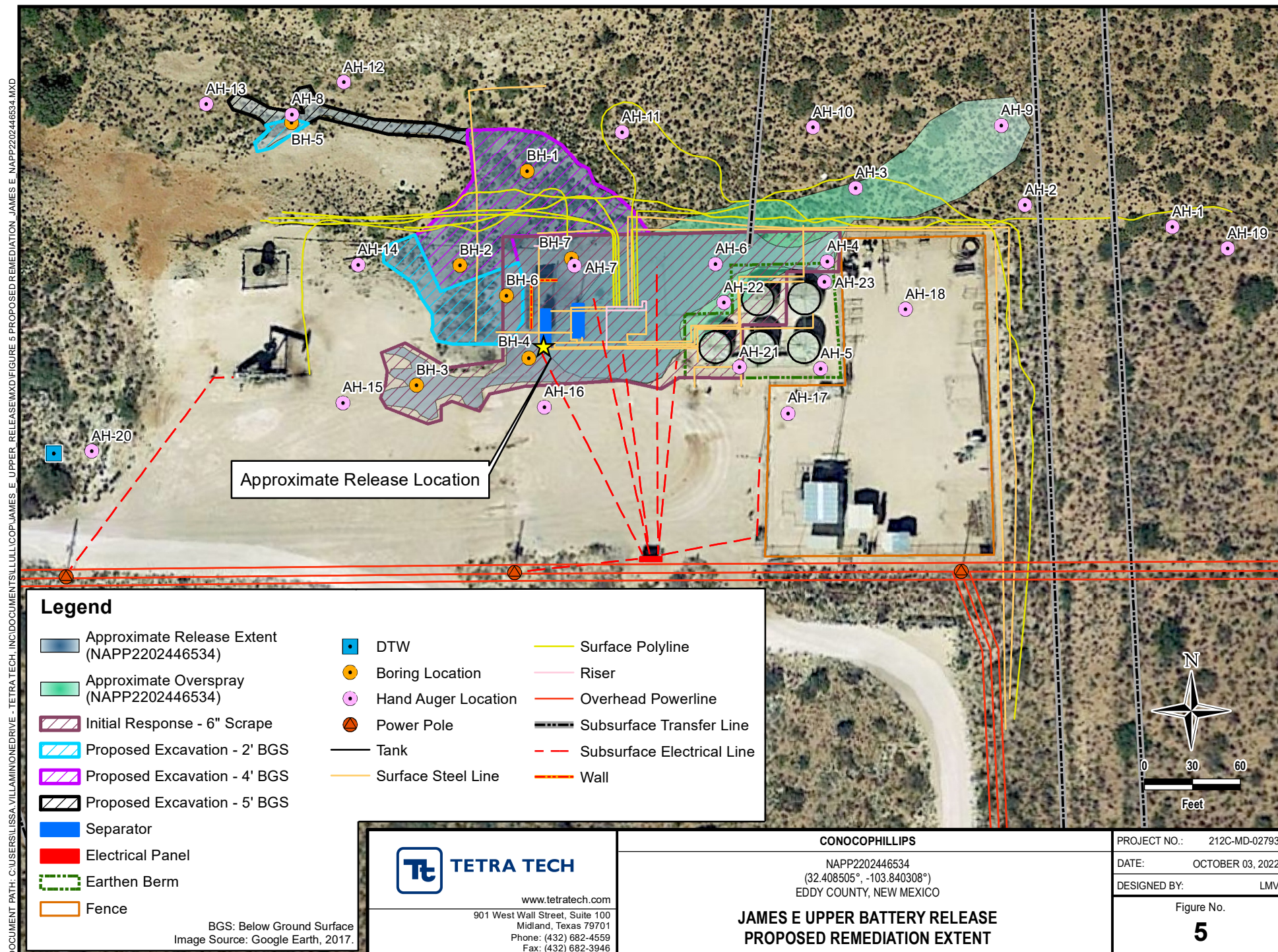
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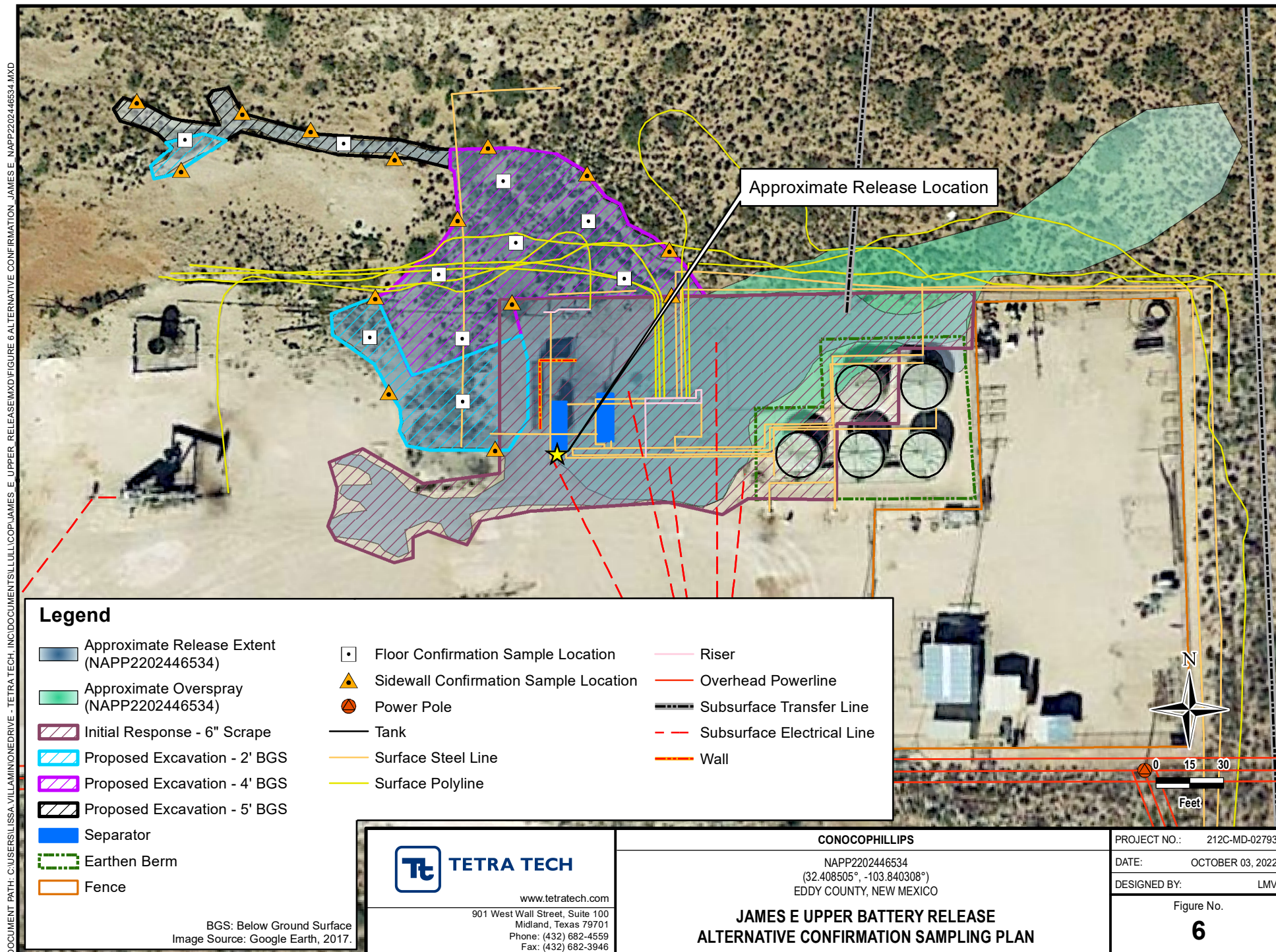
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TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT - NAPP2202446534
CONOCOPHILLIPS
JAMES E UPPER BATTERY RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride ¹		BTEX ²										TPH ³								
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		(GRO+DRO)	Total TPH (GRO+DRO+EXT DRO)	
		ft. bgs			ppm	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
		Closure Criteria for Pasture / Off-Pad Soils 0-4' bgs:			600 mg/kg	< 10 mg/kg	--		--		--		< 50 mg/kg		--		--		--		--				--
		Closure Criteria for Soils >4' bgs (GW 50-100 ft):		10,000 mg/kg	< 10 mg/kg	--		--		--		< 50 mg/kg		--		--		--		--		1000 mg/kg	2500 mg/kg		
AH-1	8/9/2022	0-1			16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0			-	
		2-3			32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0			-	
AH-2	8/9/2022	0-1			16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0			-	
		2-3			32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0			-	
AH-3	8/9/2022	0-1			48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0			-	
		2-3			32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0			-	
AH-4	8/9/2022	0-1			32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		279		220		279	499	
		2-3			48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		43.1		35.5		43.1	78.6	
AH-5	8/9/2022	0-1			16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0			-	
		2-3			16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0			-	
AH-6	8/9/2022	0-1			96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0			-	
		2-3			96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0			-	
AH-7	8/9/2022	0-1			64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		22.5		11.7		22.5	34.2	
		2-3			64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		113		59.9		113	173	
AH-8	8/9/2022	0-1			352		< 0.500		< 0.500		4.05	GC-NC1	24.7	GC-NC1	28.7	GC-NC1	3,110		32,900		6,700		36,010	42,710	
		2-3			576		< 0.050		< 0.050		< 0.050		0.531	GC-NC1	0.531	GC-NC1	< 50.0		1470		412		1470	1,882	
		4-5			544		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 50.0		1040		292		1040	1,332	
AH-9	8/9/2022	0-1			64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		12.8		< 10.0		12.8	12.8	
AH-10	8/9/2022	0-1			32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0			-	
AH-11	8/9/2022	0-1			32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0			-	
AH-12	8/9/2022	0-1			16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0			-	
AH-13	8/9/2022	0-1			48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0			-	
AH-14	8/9/2022	0-1			32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0			-	
AH-15	8/9/2022	0-1			64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		184		130		184	314	
AH-16	8/9/2022	0-1			112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		15.2		< 10.0		15.2	15.2	
AH-17	8/9/2022	0-1			64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0			-	
AH-18	8/9/2022	0-1			64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0			-	
AH-19	8/9/2022	0-1			48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0			-	

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

Bold and italicized values indicate exceedance of proposed Site RRALs.

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
ADDITIONAL SOIL ASSESSMENT - NAPP2202446534
CONOCOPHILLIPS
JAMES E UPPER BATTERY RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride ¹		BTEX ²										TPH ³									
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		(GRO+DRO)	Total TPH (GRO+DRO+EXT DRO)		
		ft. bgs			ppm		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	mg/kg
		Closure Criteria for Pasture / Off-Pad Soils 0-4' bgs:			600 mg/kq		< 10 mg/kq		--		--		--		< 50 mg/kq		--		--		--		--		100 mg/kq	
Closure Criteria for Soils >4' bgs (GW 50-100 ft):			10,000 mg/kq		< 10 mg/kq		--		--		--		< 50 mg/kq		--		--		--		1000 mg/kq		2500 mg/kq			
BH-1	9/13/2022	0-1			208		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		128		76.7		128	205		
		2-3			896		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		13.0		< 10.0		13	13.0		
		4-5			1,410		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-		
		6-7			1,390		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-		
		9-10			1,710		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-		
		14-15			1,630		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-		
		19-20			544		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-		
		24-25			560		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-		
29-30			96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-				
BH-2	9/14/2022	0-1			672		< 0.050		< 0.050		< 0.050	GC-NC	0.746	GC-NC1	0.746	GC-NC1	348		14,100		3,630		14,448	18,078		
		2-3			608		< 0.050		< 0.050		< 0.050	GC-NC	< 0.150		< 0.300		31.5		1,760		470		1,792	2,262		
		4-5			688		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		13.1		809		241		822.1	1,063		
		6-7			1,140		< 0.050		< 0.050		< 0.050	GC-NC	< 0.150		< 0.300		< 10.0		330		97.3		330	427		
		9-10			1,040		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		164		54.2		164	218		
BH-3	9/14/2022	0-1			128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		28.6		< 10.0		28.6	28.6		
		2-3			496		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-		
		4-5			960		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-		
		6-7			768		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-		
		9-10			416		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-		
BH-4	9/14/2022	0-1			1,960		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		157		42.0		157	199		
		2-3			496		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		19.9		< 10.0		19.9	19.9		
		4-5			656		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-		
		6-7			896		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-		
		9-10			640		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-		
BH-5	9/14/2022	0-1			496		< 0.050		< 0.050		< 0.050	GC-NC	0.942	GC-NC1	0.942	GC-NC1	225		6,000		1,100		6,225	7,325		
		2-3			288		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		55.8		17.3		55.8	73.1		
		4-5			624		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		82.5		20.4		82.5	103		
		6-7			240		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		17.7		< 10.0		17.7	17.7		
		9-10			240		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-		
		14-15			784		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		40.1		< 10.0		40.1	40.1		
		19-20			2,800		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-		
		24-25			2,040		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-		
		29-30			1,020		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-		
BH-6	9/14/2022	0-1			4,240		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 50.0		2060		615		2060	2,675		
		2-3			1,200		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		397		172		397	569		
		4-5			640		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		179		37.5		179	217		
		6-7			656		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		44.0		10.3		44	54.3		
		9-10			592		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		45.3		< 10.0		45.3	45.3		
BH-7	9/14/2022	0-1			80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		64.0		11.8		64	75.8		
		2-3			64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-		
		4-5			160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-		
		6-7			304		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-		
		9-10			304		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-		

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
ADDITIONAL SOIL ASSESSMENT - NAPP2202446534
CONOCOPHILLIPS
JAMES E UPPER BATTERY RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride ¹		BTEX ²										TPH ³									
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		(GRO+DRO)	Total TPH (GRO+DRO+EXT DRO)		
		C ₆ - C ₁₀			> C ₁₀ - C ₂₈												> C ₂₈ - C ₃₆									
		ft. bgs	ppm		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	mg/kg		
		Closure Criteria for Pasture / Off-Pad Soils 0-4' bgs:			600 mg/kg		< 10 mg/kg		--		--		--		< 50 mg/kg		--		--		--		--		100 mg/kg	
Closure Criteria for Soils >4' bgs (GW 50-100 ft):			10,000 mg/kg		< 10 mg/kg		--		--		--		< 50 mg/kg		--		--		--		1000 mg/kg		2500 mg/kg			
AH-20	9/26/2022	0-1			16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-		
AH-21	9/12/2022	0-1			32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	-		
AH-22	9/12/2022	0-1			< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		50.3		27.3		50.3	77.6		
AH-23	9/12/2022	0-1			< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		247		166		247	413		

NOTES:

- ft. Feet
- bgs Below ground surface
- mg/kg Milligrams per kilogram
- TPH Total Petroleum Hydrocarbons
- GRO Gasoline range organics
- DRO Diesel range organics
- 1 Method SM4500Cl-B
- 2 Method 8021B
- 3 Method 8015M

Bold and italicized values indicate exceedance of proposed Site RRALs.

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

- GC-NC8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
- GC-NC18260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.

APPENDIX A C-141 Forms

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2202446534
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	ConocoPhillips	OGRID	217817
Contact Name	Kelsy Waggaman	Contact Telephone	(432) 688-9057
Contact email	Kelsy.Waggaman@ConocoPhillips.com	Incident # (assigned by OCD)	NAPP2202446534
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.408333 Longitude -103.840278
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	James E Upper	Site Type	Tank Battery
Date Release Discovered	January 1, 2022	API# (if applicable)	

Unit Letter	Section	Township	Range	County
E	12	22S	30E	Lea

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 61	Volume Recovered (bbls) 0
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release


The release was caused by a valve failure. The release occurred on and off pad. ConocoPhillips will have the spill area evaluated for impact from the release.

Incident ID	NAPP2202446534
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Release was greater than 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notification was given by Kelsy Waggaman via email on January 3, 2022 at 5:40 PM to ocd.enviro@state.nm.us and BLM_NM_CFO_Spill@blm.gov.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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.	
Printed Name Brittany N. Esparza	Title: Environmental Technician
Signature: 	Date: 1/24/2022
email: Brittany.Esparza@ConocoPhillips.com	Telephone: (432) 221-0398
<u>OCD Only</u>	
Received by: Ramona Marcus	Date: 1/24/2022

L48 Spill Volume Estimate Form

Received by OCD: 10/24/2022 8:57:15 AM

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Name & Number:	James E Upper	
Asset Area:	Cabin Lake, Hobbs	NAPP2202446534
Release Discovery Date & Time:	December 20th, 9:15 am	
Release Type:	oil mixture	
Provide any known details about the event:	Spill originated from the pressure release valve on the production separator.	

Spill Calculation - Subsurface Spill - Rectangle

Was the release on pad or off-pad?				See reference table below					
Has it rained at least a half inch in the last 24 hours?				See reference table below					
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	52.0	40.0	1.00	10.50%	30.853	3.240	13.00%	0.421	2.818
Rectangle B	120.0	180.0	0.25	10.50%	80.100	8.411	13.00%	1.093	7.317
Rectangle C	60.0	14.0	3.00	15.16%	37.380	5.667	13.00%	0.737	4.930
Rectangle D					0.000	0.000		0.000	0.000
Rectangle E					0.000	0.000		0.000	0.000
Rectangle F					0.000	0.000		0.000	0.000
Rectangle G					0.000	0.000		0.000	0.000
Rectangle H					0.000	0.000		0.000	0.000
Rectangle I					0.000	0.000		0.000	0.000
Released to Imaging: 12/6/2022 2:54:22 PM					0.000	0.000		0.000	0.000
Total Volume Release:						17.317		2.251	15.066

Incident ID	NAPP2202446534
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>50 _____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

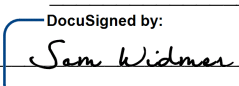
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NAPP2202446534
District RP	
Facility ID	
Application ID	

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.

Printed Name: Sam widmer Title: Principal Program Manager
Signature:  Date: Oct-17-2022
email: 5454CA5BAD33498... Sam.widmer@conocophillips.com Telephone: 281-206-5298

OCD Only

Received by: Jocelyn Harimon Date: 10/24/2022

Incident ID	NAPP2202446534
District RP	
Facility ID	
Application ID	

Remediation Plan

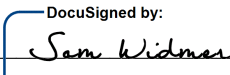
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

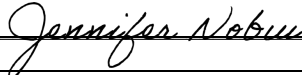
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public 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.

Printed Name: Sam widmer Title: Principal Program Manager
Signature:  Date: Oct-17-2022
email: 5454CA5BAD33498... Sam.widmer@conocophillips.com Telephone: 281-206-5298

OCD Only

Received by: Jocelyn Harimon Date: 10/24/2022

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature:  Date: 12/06/2022

APPENDIX B

Site Characterization Data



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 04528 POD1	CUB	ED		1	3	3	12	22S	30E	608886	3585625	703			
C 02749	CUB	ED		1	1	1	18	22S	31E	610556	3585146*	1899	640		
C 02750	CUB	ED		1	1	1	18	22S	31E	610556	3585146*	1899	741		
C 02751	CUB	ED		1	1	1	18	22S	31E	610556	3585146*	1899	637		
C 03003	CUB	ED		3	1	3	31	21S	31E	610511	3588970*	3034	650		
C 03002	CUB	ED		4	2	4	06	22S	31E	611933	3587375*	3070	668		
C 03234 EXPLORE	CUB	ED		1	2	3	35	21S	30E	607695	3589207*	3201	410		
C 02723	CUB	ED		2	2	3	15	22S	30E	606282	3584363*	3386	651		
C 02950 EXPL	CUB	ED		4	2	4	23	22S	30E	608740	3582576*	3745	845		
C 02637	CUB	ED		1	3	3	24	22S	30E	608950	3582377*	3932	759		
C 02748	CUB	ED		1	2	3	17	22S	31E	612576	3584364*	4023	3856		
C 02683	CUB	ED		3	1	1	20	22S	31E	612184	3583356*	4302	840		
C 02413	CUB	ED		1	2	1	20	22S	31E	612586	3583560*	4475	737		
C 02682	CUB	ED		4	4	4	08	22S	31E	613566	3585379*	4606	4400		
C 03112 EXPLORE	CUB	ED		3	1	1	09	22S	31E	613753	3586590*	4707	3567		
C 03221 EXPLORE	CUB	ED		1	2	1	30	22S	31E	610995	3581935*	4784	651		
C 03015	CUB	ED		1	4	3	22	22S	30E	606099	3582353*	4937	1316	262	1054

Average Depth to Water: **262 feet**

Minimum Depth: **262 feet**

Maximum Depth: **262 feet**

Record Count: 17

UTMNAD83 Radius Search (in meters):

Easting (X): 609053.88

Northing (Y): 3586308.39

Radius: 5000

*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.

7/11/22 9:08 AM

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WATER COLUMN/ AVERAGE
DEPTH TO WATER

James E Upper Battery

Karst Potential Map

Legend

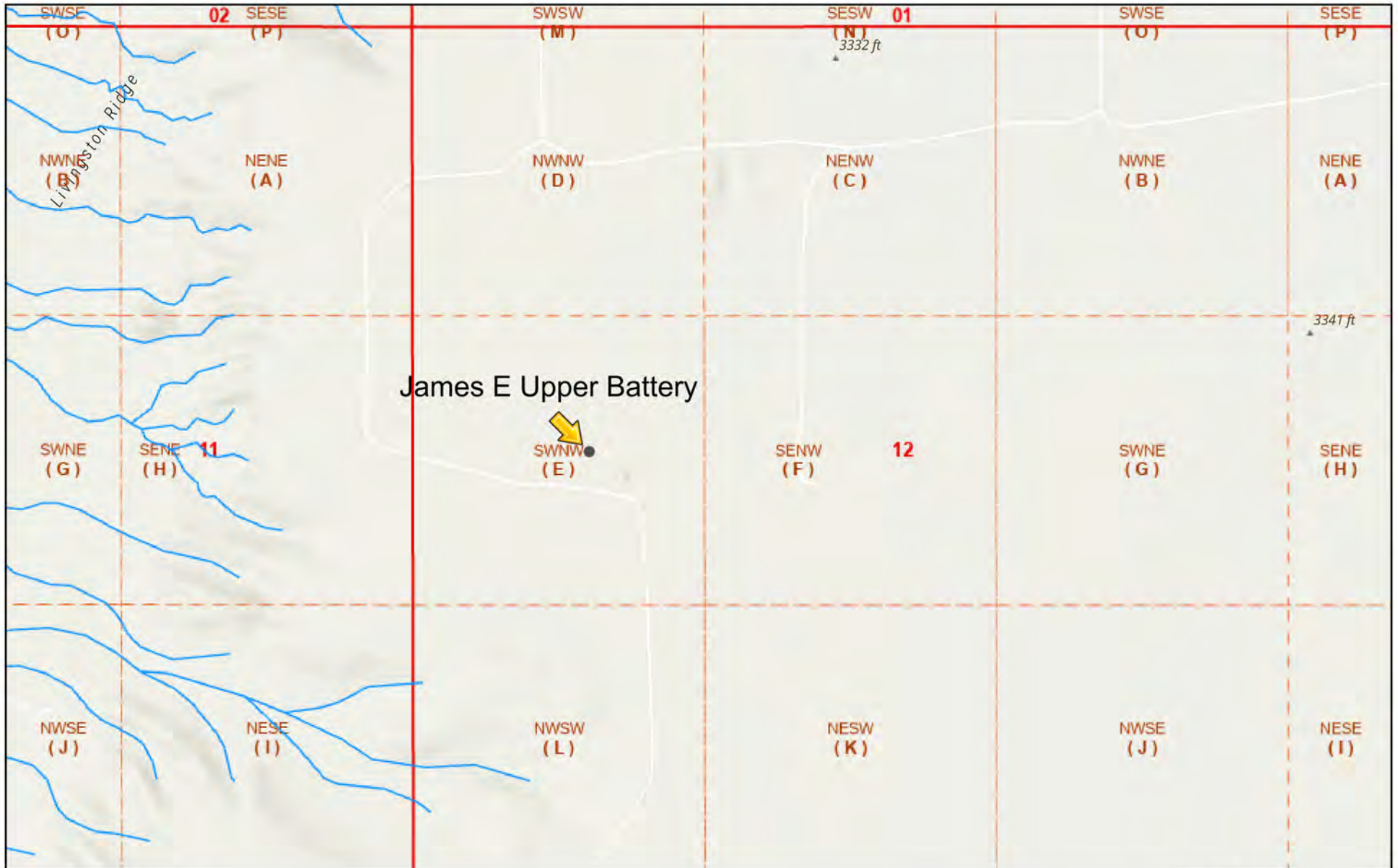
- High
- Low
- Medium

★ Approximate Release Point



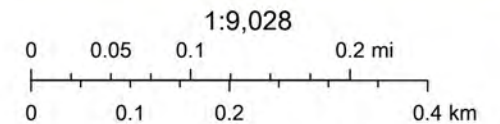
3 mi

NMOCD Waterbodies Map



9/28/2022, 11:24:21 AM

-  Override 1
-  PLSS Second Division
-  OSE Streams
-  PLSS First Division



Esri, NASA, NGA, USGS, FEMA, Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, © OpenStreetMap,

New Mexico Oil Conservation Division

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

212C-MD-02793		TETRA TECH		LOG OF BORING DTW Boring				Page 1 of 1		
Project Name: James E Upper Battery Release										
Borehole Location: GPS Coordinates: 32.408324°, -103.841301°						Surface Elevation: 3311 ft				
Borehole Number: DTW Boring					Borehole Diameter (in.): 8		Date Started: 9/8/2022		Date Finished: 9/8/2022	

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	
5												-SM- SILTY SAND: Reddish brown, medium dense, dry. -- occasional caliche @ 0-1'.	5	
7												-SM- SILTY SAND: Tan, medium dense, with occasional caliche gravel, dry.	7	
10												-SP- SAND: Red, loose, dry.	10	
12												-SP- SAND: Red, medium dense, with occasional caliche pebbles, dry.	12	
15												-SP- SAND: Light red, medium dense, with occasional caliche, dry.	15	
19												-SW- SAND: Red, medium dense, dry.	19	
25												-ML- MUDSTONE: Reddish brown, dense, dry.	25	
35												-SM- SILTY SAND: Dark red, dense, dry.	35	
40												-CL- SILTY CLAY: Reddish brown, dense, dry.	40	
45												-SM- SILTY SAND: Tan, dense, dry.	45	
50														
55														

Bottom of borehole at 55.0 feet.

Sampler Types: Split Spoon Shelby Bulk Sample Grab Sample	Acetate Liner Vane Shear Discrete Sample Test Pit	Operation Types: Mud Rotary Continuous Flight Auger Wash Rotary	Hand Auger Air Rotary Direct Push Core Barrel	Notes: Surface elevation is an approximate value from Google Earth data.
---	--	--	--	---

Logger: Joe Tyler	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling
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APPENDIX C

Initial Response Waste Manifests



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW RICHARDS
AFE #:
PO #:
Manifest #: N/A
Manif. Date: 1/13/2022
Hauler: MCNABB PARTNERS
Driver: GUMAR
Truck #: M32
Card #
Job Ref #

Ticket #: 700-1264798
Bid #: O6UJ9A000HH0
Date: 1/13/2022
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #: 20996
Well Name: JAMES E
Well #: 001
Field:
Field #:
Rig: NON-DRILLING
County: EDDY (NM)

Facility: CRI

Product / Service**Quantity Units**

Contaminated Soil (RCRA Exempt)

18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature**R360 Representative Signature****Customer Approval****THIS IS NOT AN INVOICE!**

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: ANDREW RICHARDS
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 1/14/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMAR
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1265043
 Bid #: O6UJ9A000HH0
 Date: 1/14/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #:
 Well Name: JAMES E BATTERY
 Well #:
 Field:
 Field #:
 Rig: NON-DRILLING
 County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: ANDREW RICHARDS
 AFE #:
 PO #:
 Manifest #: M32
 Manif. Date: 1/14/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1265085
 Bid #: O6UJ9A000HH0
 Date: 1/14/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #:
 Well Name: JAMES E BATTERY
 Well #:
 Field:
 Field #:
 Rig: NON-DRILLING
 County

Facility: CRI

Product / Service	Quantity Units										
Contaminated Soil (RCRA Exempt)	18.00 yards										
	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	28	0.00	0.00	0.00	0			0.00			

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: ANDREW RICHARDS
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 1/18/2022
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1266296
 Bid #: O6UJ9A000HH0
 Date: 1/18/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #:
 Well Name: JAMES E BATTERY
 Well #:
 Field:
 Field #:
 Rig: NON-DRILLING
 County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW RICHARDS
AFE #:
PO #:
Manifest #: NA
Manif. Date: 1/18/2022
Hauler: MCNABB PARTNERS
Driver: GUMER
Truck #: M32
Card #
Job Ref #

Ticket #: 700-1266203
Bid #: O6UJ9A000HH0
Date: 1/18/2022
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #:
Well Name: JAMES E BATTERY
Well #:
Field:
Field #:
Rig: NON-DRILLING
County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW RICHARDS
AFE #:
PO #:
Manifest #: NA
Manif. Date: 1/18/2022
Hauler: MCNABB PARTNERS
Driver: GUMAR
Truck #: M32
Card #
Job Ref #

Ticket #: 700-1266137
Bid #: O6UJ9A000HH0
Date: 1/18/2022
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #:
Well Name: JAMES E BATTERY
Well #:
Field:
Field #:
Rig: NON-DRILLING
County

Facility: CRI

Product / Service**Quantity Units**

Contaminated Soil (RCRA Exempt)

18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- ☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature**R360 Representative Signature****Customer Approval****THIS IS NOT AN INVOICE!**

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: ANDREW RICHARDS
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 1/19/2022
 Hauler: MCNABB PARTNERS
 Driver: DANNY
 Truck #: M02
 Card #
 Job Ref #

Ticket #: 700-1266730
 Bid #: O6UJ9A000HH0
 Date: 1/19/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #:
 Well Name: JAMES E BATTERY
 Well #:
 Field:
 Field #:
 Rig: NON-DRILLING
 County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

10.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW RICHARDS
AFE #:
PO #:
Manifest #: NA
Manif. Date: 1/19/2022
Hauler: MCNABB PARTNERS
Driver: DANNY
Truck #: M02
Card #
Job Ref #

Ticket #: 700-1266648
Bid #: O6UJ9A000HH0
Date: 1/19/2022
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #:
Well Name: JAMES E BATTERY
Well #:
Field:
Field #:
Rig: NON-DRILLING
County

Permian Basin

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

10.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

A handwritten signature in black ink, appearing to be a stylized 'W' or 'M' followed by a horizontal stroke.

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW RICHARDS
AFE #:
PO #:
Manifest #: NA
Manif. Date: 1/21/2022
Hauler: MCNABB PARTNERS
Driver: RAY
Truck #: M02
Card #
Job Ref #

Ticket #: 700-1267620
Bid #: O6UJ9A000HH0
Date: 1/21/2022
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #:
Well Name: JAMES E BATTERY
Well #:
Field:
Field #:
Rig: NON-DRILLING
County

Facility: CRI

Product / Service**Quantity Units**

Contaminated Soil (RCRA Exempt)

10.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature**R360 Representative Signature****Customer Approval****THIS IS NOT AN INVOICE!**

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: ANDREW RICHARDS
 AFE #:
 PO #:
 Manifest #: MO2
 Manif. Date: 1/24/2022
 Hauler: MCNABB PARTNERS
 Driver: DANNY
 Truck #: MO2
 Card #
 Job Ref #

Ticket #: 700-1268779
 Bid #: O6UJ9A000HH0
 Date: 1/24/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #:
 Well Name: JAMES E BATTERY
 Well #:
 Field:
 Field #:
 Rig: NON-DRILLING
 County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

10.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW RICHARDS
AFE #:
PO #:
Manifest #: NA
Manif. Date: 1/25/2022
Hauler: MCNABB PARTNERS
Driver: DANNY
Truck #: M02
Card #
Job Ref #

Ticket #: 700-1269227
Bid #: O6UJ9A000HH0
Date: 1/25/2022
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #:
Well Name: JAMES E BATTERY
Well #:
Field:
Field #:
Rig: NON-DRILLING
County

Facility: CRI

Product / Service**Quantity Units**

Contaminated Soil (RCRA Exempt)

10.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature**R360 Representative Signature****Customer Approval****THIS IS NOT AN INVOICE!**

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW RICHARDS
AFE #:
PO #:
Manifest #: N/A
Manif. Date: 1/27/2022
Hauler: MCNABB PARTNERS
Driver: DANNY
Truck #: M02
Card #
Job Ref #

Ticket #: 700-1269900 Page 41 of 161
Bid #: O6UJ9A000HH0
Date: 1/27/2022
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #:
Well Name: JAMES E BATTERY
Well #:
Field:
Field #:
Rig: NON-DRILLING
County

Facility: CRI

Product / Service

Quantity Units

Completion Fluids (NON-INJ)

10.00 bbl

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW RICHARDS
AFE #:
PO #:
Manifest #: N/A
Manif. Date: 1/27/2022
Hauler: MCNABB PARTNERS
Driver: DANNY
Truck #: M02
Card #
Job Ref #

Ticket #: 700-1269971
Bid #: O6UJ9A000HH0
Date: 1/27/2022
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #:
Well Name: JAMES E BATTERY
Well #:
Field:
Field #:
Rig: NON-DRILLING
County

Facility: CRI

Product / Service**Quantity Units**

Contaminated Soil (RCRA Exempt)

10.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature**R360 Representative Signature****Customer Approval****THIS IS NOT AN INVOICE!**

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: ANDREW RICHARDS
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 2/11/2022
 Hauler: MCNABB PARTNERS
 Driver: JOE
 Truck #: M33
 Card #
 Job Ref #

Ticket #: 700-1274187
 Bid #: O6UJ9A000HH0
 Date: 2/11/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #:
 Well Name: JAMES E BATTERY
 Well #:
 Field:
 Field #:
 Rig: NON-DRILLING
 County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

3.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

APPENDIX D

Photographic Documentation



TETRA TECH, INC. PROJECT NO. 212C-MD-02793	DESCRIPTION	View North. Southern portion of December 2021 release extent, NAPP2200639375.	1
	SITE NAME	ConocoPhillips James E Upper Battery Release	12/20/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02793	DESCRIPTION	View East. Southwestern extent of December 2021 release, NAPP2200639375.	2
	SITE NAME	ConocoPhillips James E Upper Battery Release	12/20/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02793	DESCRIPTION	View Northwest. December 2021 release extent south horizontal tanks, NAPP2200639375.	3
	SITE NAME	ConocoPhillips James E Upper Battery Release	12/20/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02793	DESCRIPTION	View West. Southern extent of January 2022 release in, NAPP2202446534.	4
	SITE NAME	ConocoPhillips James E Upper Battery Release	1/3/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02793	DESCRIPTION	View North-Northeast. January 2022 release area east of horizontal tank, NAPP2202446534.	5
	SITE NAME	ConocoPhillips James E Upper Battery Release	1/3/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02793	DESCRIPTION	View East-Northeast. January 2022 release area west of tank battery, NAPP2202446534.	6
	SITE NAME	ConocoPhillips James E Upper Battery Release	1/3/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02793	DESCRIPTION	View North. Release area south of horizontal tanks post-scraper.	7
	SITE NAME	ConocoPhillips James E Upper Battery Release	1/28/2022



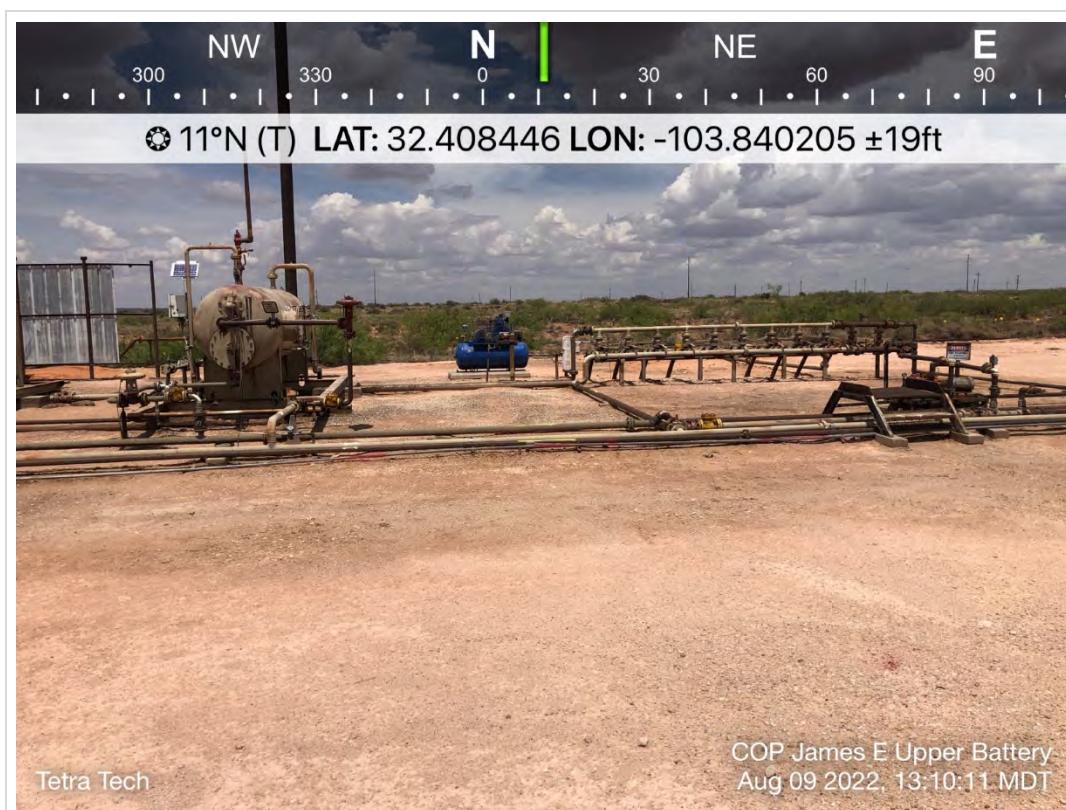
TETRA TECH, INC. PROJECT NO. 212C-MD-02793	DESCRIPTION	View North. Release area southwest of horizontal tanks post-scraper.	8
	SITE NAME	ConocoPhillips James E Upper Battery Release	1/28/2022



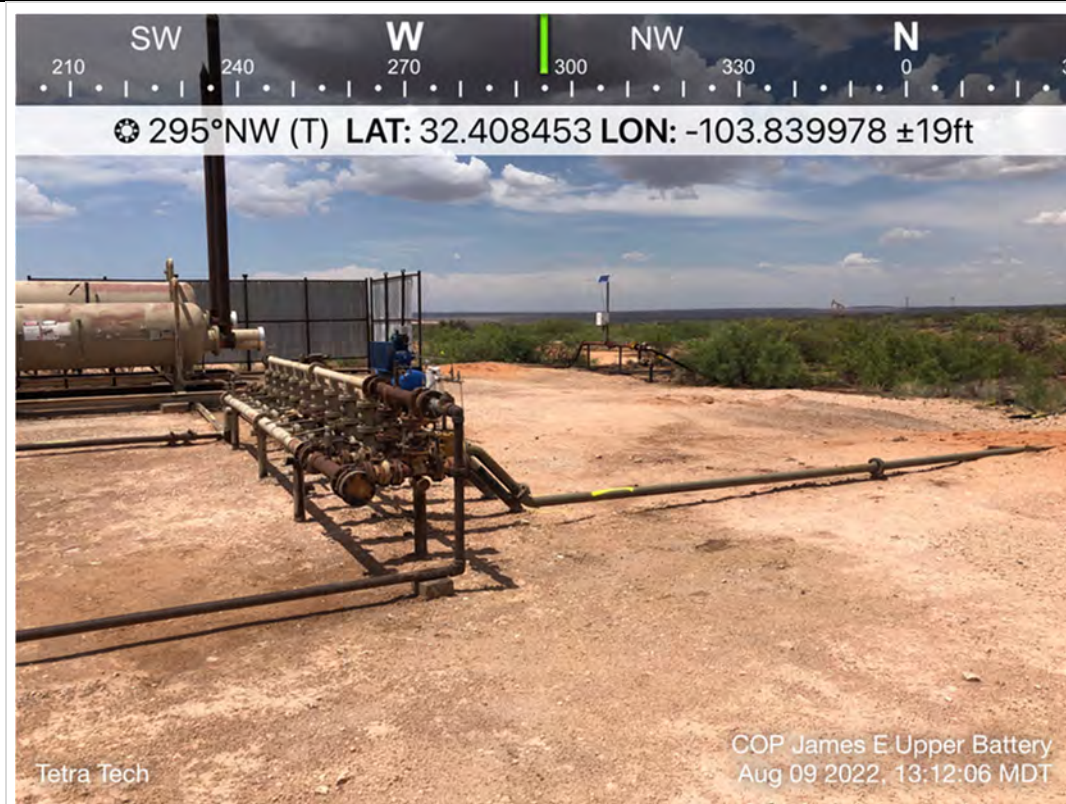
TETRA TECH, INC. PROJECT NO. 212C-MD-02793	DESCRIPTION	View North. Release area west of horizontal tanks post-scraper.	9
	SITE NAME	ConocoPhillips James E Upper Battery Release	1/28/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02793	DESCRIPTION	View West-Northwest. Current Site conditions. Release area on western pad post-scraper.	10
	SITE NAME	ConocoPhillips James E Upper Battery Release	8/9/2022



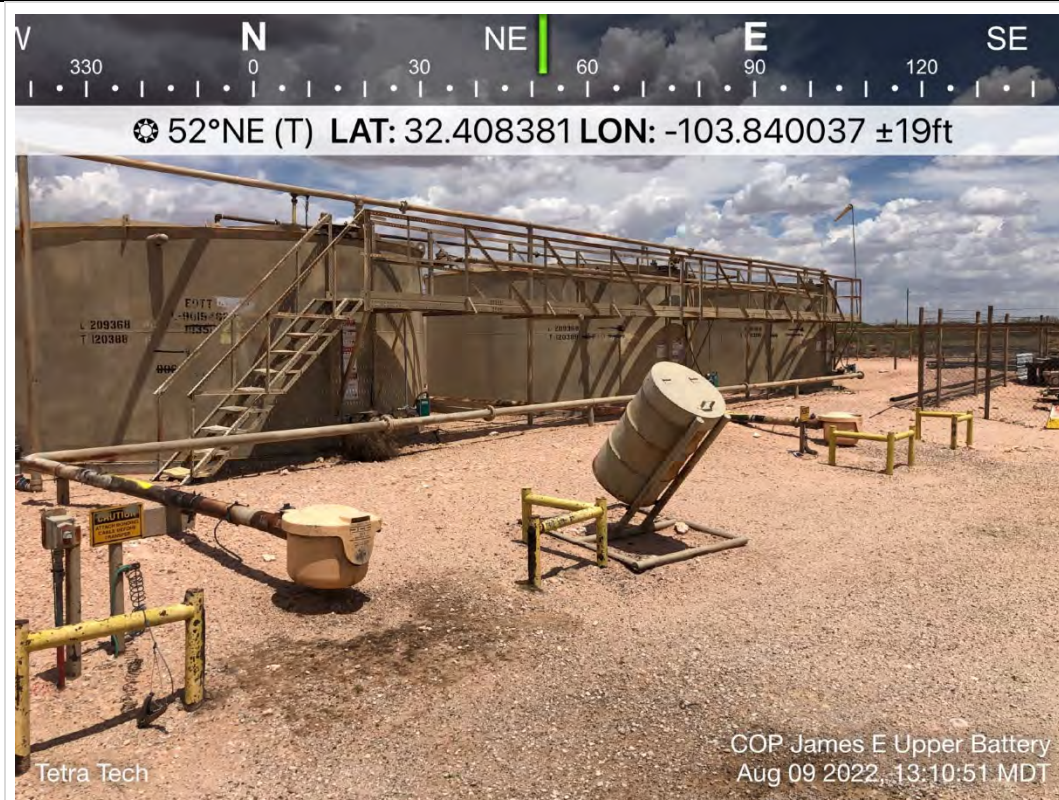
TETRA TECH, INC. PROJECT NO. 212C-MD-02793	DESCRIPTION	View North. Current Site conditions. Release area east of horizontal tanks.	11
	SITE NAME	ConocoPhillips James E Upper Battery Release	8/9/2022



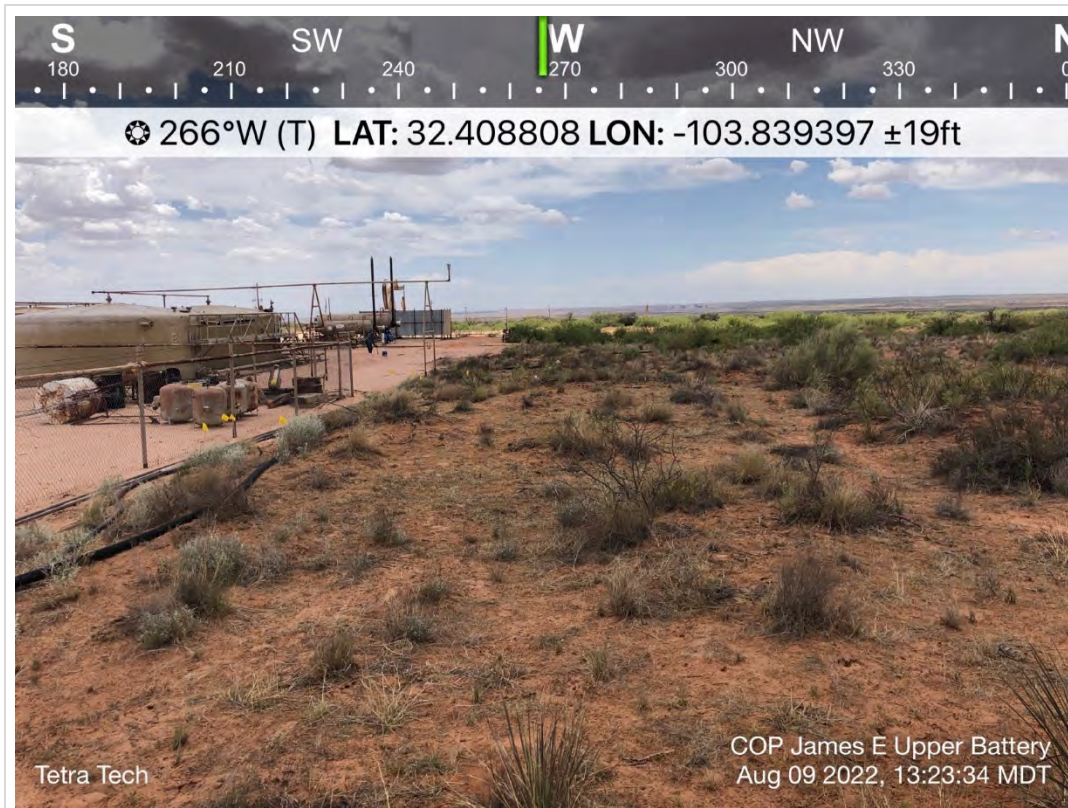
TETRA TECH, INC. PROJECT NO. 212C-MD-02793	DESCRIPTION	View West-Northwest. Current Site conditions. Release area north of horizontal tanks.	12
	SITE NAME	ConocoPhillips James E Upper Battery Release	8/9/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02793	DESCRIPTION	View West-Northwest. Current Site conditions. Release area west of tank battery.	13
	SITE NAME	ConocoPhillips James E Upper Battery Release	8/9/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02793	DESCRIPTION	View West-Northwest. Current Site conditions. Release area west of tank battery.	14
	SITE NAME	ConocoPhillips James E Upper Battery Release	8/9/2022



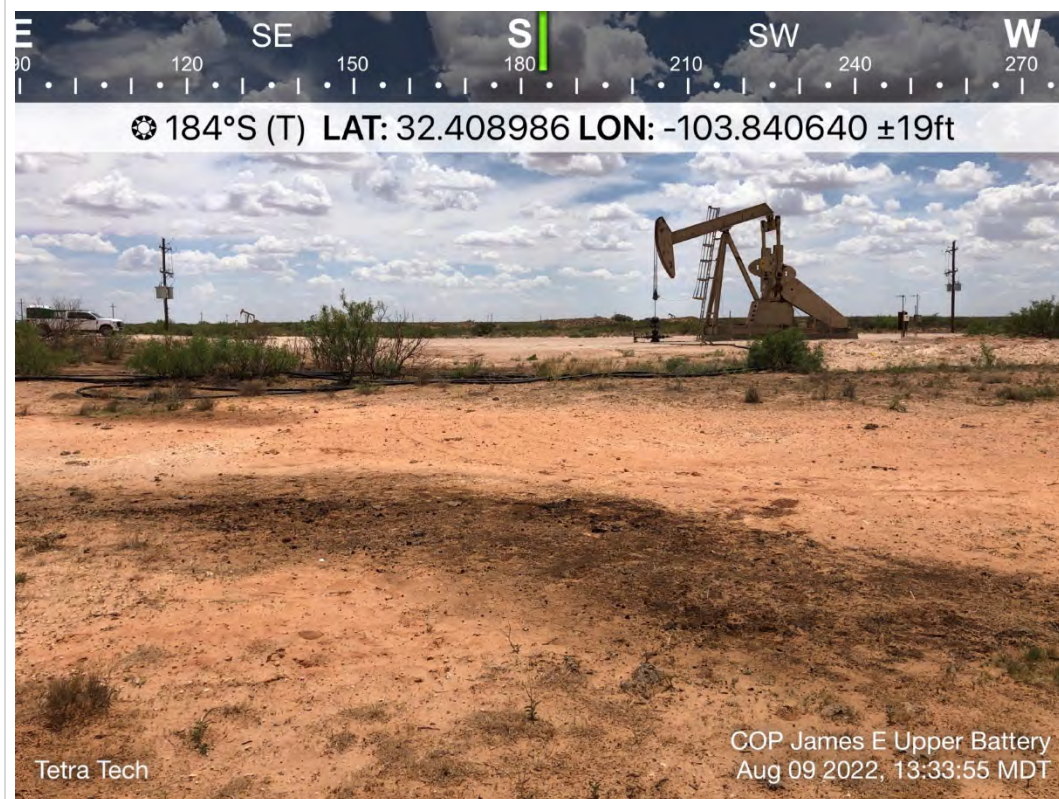
TETRA TECH, INC. PROJECT NO. 212C-MD-02793	DESCRIPTION	View West. Current Site conditions. January 2022 overspray area northeast of tank battery, NAPP2202446534.	15
	SITE NAME	ConocoPhillips James E Upper Battery Release	8/9/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02793	DESCRIPTION	View East. Current Site conditions. January 2022 overspray area northwest of tank battery, NAPP2202446534.	16
	SITE NAME	ConocoPhillips James E Upper Battery Release	8/9/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02793	DESCRIPTION	View South. Current Site conditions north of lease pad.	17
	SITE NAME	ConocoPhillips James E Upper Battery Release	8/9/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02793	DESCRIPTION	View West. Current Site conditions. Northwestern extent of release area.	18
	SITE NAME	ConocoPhillips James E Upper Battery Release	8/9/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02793	DESCRIPTION	View Southeast. Current Site conditions. Northwestern extent of release area.	19
	SITE NAME	ConocoPhillips James E Upper Battery Release	8/9/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02793	DESCRIPTION	View West. Current Site conditions. Northwestern extent of release area.	20
	SITE NAME	ConocoPhillips James E Upper Battery Release	8/9/2022

APPENDIX E

Laboratory Analytical Data

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

August 17, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: JAMES E UPPER BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/10/22 9:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is 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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH - 1 (0-1')	H223573-01	Soil	09-Aug-22 12:35	10-Aug-22 09:08
AH - 1 (2-3')	H223573-02	Soil	09-Aug-22 12:41	10-Aug-22 09:08
AH - 2 (0-1')	H223573-03	Soil	09-Aug-22 12:45	10-Aug-22 09:08
AH - 2 (2-3')	H223573-04	Soil	09-Aug-22 12:47	10-Aug-22 09:08
AH - 3 (0-1')	H223573-05	Soil	09-Aug-22 12:49	10-Aug-22 09:08
AH - 3 (2-3')	H223573-06	Soil	09-Aug-22 12:56	10-Aug-22 09:08
AH - 4 (0-1')	H223573-07	Soil	09-Aug-22 13:01	10-Aug-22 09:08
AH - 4 (2-3')	H223573-08	Soil	09-Aug-22 13:10	10-Aug-22 09:08
AH - 5 (0-1')	H223573-09	Soil	09-Aug-22 13:13	10-Aug-22 09:08
AH - 5 (2-3')	H223573-10	Soil	09-Aug-22 13:15	10-Aug-22 09:08
AH - 6 (0-1')	H223573-11	Soil	09-Aug-22 13:18	10-Aug-22 09:08
AH - 6 (2-3')	H223573-12	Soil	09-Aug-22 13:40	10-Aug-22 09:08
AH - 7 (0-1')	H223573-13	Soil	09-Aug-22 13:45	10-Aug-22 09:08
AH - 7 (2-3')	H223573-14	Soil	09-Aug-22 13:52	10-Aug-22 09:08
AH - 8 (0-1')	H223573-15	Soil	09-Aug-22 13:59	10-Aug-22 09:08
AH - 8 (2-3')	H223573-16	Soil	09-Aug-22 14:20	10-Aug-22 09:08
AH - 8 (4-5')	H223573-17	Soil	09-Aug-22 14:25	10-Aug-22 09:08
AH - 9 (0-1')	H223573-18	Soil	09-Aug-22 14:29	10-Aug-22 09:08
AH - 10 (0-1')	H223573-19	Soil	09-Aug-22 14:40	10-Aug-22 09:08
AH - 11 (0-1')	H223573-20	Soil	09-Aug-22 14:43	10-Aug-22 09:08
AH - 12 (0-1')	H223573-21	Soil	09-Aug-22 14:46	10-Aug-22 09:08
AH - 13 (0-1')	H223573-22	Soil	09-Aug-22 14:50	10-Aug-22 09:08
AH - 14 (0-1')	H223573-23	Soil	09-Aug-22 14:55	10-Aug-22 09:08
AH - 15 (0-1')	H223573-24	Soil	09-Aug-22 15:00	10-Aug-22 09:08
AH - 16 (0-1')	H223573-25	Soil	09-Aug-22 15:03	10-Aug-22 09:08
AH - 17 (0-1')	H223573-26	Soil	09-Aug-22 15:04	10-Aug-22 09:08
AH - 18 (0-1')	H223573-27	Soil	09-Aug-22 15:06	10-Aug-22 09:08

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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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 19 (0-1')

H223573-28

Soil

09-Aug-22 15:09

10-Aug-22 09:08

08/17/22 - Client changed the sample IDs for 18-28 (see COC). This is the revised report and will replace the one sent on 08/15/22.

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

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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 1 (0-1')**H223573-01 (Soil)**

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

Chloride	16.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2081017	JH	11-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2081017	JH	11-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2081017	JH	11-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2081017	JH	11-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2081017	JH	11-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140 2081017 JH 11-Aug-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	

Surrogate: 1-Chlorooctane 96.2 % 43-149 2081010 MS 10-Aug-22 8015B

Surrogate: 1-Chlorooctadecane 113 % 42.5-161 2081010 MS 10-Aug-22 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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 1 (2-3')**H223573-02 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	2081017	JH	11-Aug-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2081017	JH	11-Aug-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2081017	JH	11-Aug-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2081017	JH	11-Aug-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2081017	JH	11-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	103 %	69.9-140	2081017	JH	11-Aug-22	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B

Surrogate: 1-Chlorooctane	93.1 %	43-149	2081010	MS	10-Aug-22	8015B
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Surrogate: 1-Chlorooctadecane	108 %	42.5-161	2081010	MS	10-Aug-22	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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 2 (0-1')**H223573-03 (Soil)**

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

Chloride	16.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2081017	JH	11-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2081017	JH	11-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2081017	JH	11-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2081017	JH	11-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2081017	JH	11-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2081017	JH	11-Aug-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	

Surrogate: 1-Chlorooctane			101 %	43-149		2081010	MS	10-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane			117 %	42.5-161		2081010	MS	10-Aug-22	8015B	
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Cardinal Laboratories

*=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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 2 (2-3')**H223573-04 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2081017	JH	11-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2081017	JH	11-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2081017	JH	11-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2081017	JH	11-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2081017	JH	11-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	69.9-140		2081017	JH	11-Aug-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	

Surrogate: 1-Chlorooctane			96.8 %	43-149		2081010	MS	10-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane			111 %	42.5-161		2081010	MS	10-Aug-22	8015B	
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Cardinal Laboratories

*=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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 3 (0-1')**H223573-05 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2081023	JH	11-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	104 %	69.9-140	2081023	JH	11-Aug-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	

Surrogate: 1-Chlorooctane	93.5 %	43-149	2081010	MS	10-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane	110 %	42.5-161	2081010	MS	10-Aug-22	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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 3 (2-3')**H223573-06 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2081023	JH	11-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	69.9-140		2081023	JH	11-Aug-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	

Surrogate: 1-Chlorooctane			102 %	43-149		2081010	MS	10-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane			119 %	42.5-161		2081010	MS	10-Aug-22	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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 4 (0-1')**H223573-07 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2081023	JH	11-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		103 %		69.9-140		2081023	JH	11-Aug-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2081010	MS	11-Aug-22	8015B	
DRO >C10-C28*	279		10.0	mg/kg	1	2081010	MS	11-Aug-22	8015B	
EXT DRO >C28-C36	220		10.0	mg/kg	1	2081010	MS	11-Aug-22	8015B	

Surrogate: 1-Chlorooctane		84.4 %		43-149		2081010	MS	11-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane		111 %		42.5-161		2081010	MS	11-Aug-22	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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 4 (2-3')**H223573-08 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2081023	JH	11-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	69.9-140		2081023	JH	11-Aug-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	
DRO >C10-C28*	43.1		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	
EXT DRO >C28-C36	35.5		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	

Surrogate: 1-Chlorooctane			89.4 %	43-149		2081010	MS	10-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane			109 %	42.5-161		2081010	MS	10-Aug-22	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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 5 (0-1')**H223573-09 (Soil)**

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

Chloride	16.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2081023	JH	11-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	69.9-140		2081023	JH	11-Aug-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	

Surrogate: 1-Chlorooctane			99.0 %	43-149		2081010	MS	10-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane			116 %	42.5-161		2081010	MS	10-Aug-22	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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 5 (2-3')**H223573-10 (Soil)**

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

Chloride	16.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2081023	JH	11-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140 2081023 JH 11-Aug-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	

Surrogate: 1-Chlorooctane 99.2 % 43-149 2081010 MS 10-Aug-22 8015B

Surrogate: 1-Chlorooctadecane 117 % 42.5-161 2081010 MS 10-Aug-22 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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 6 (0-1')**H223573-11 (Soil)**

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

Chloride	96.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2081023	JH	11-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	101 %	69.9-140	2081023	JH	11-Aug-22	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B

Surrogate: 1-Chlorooctane	87.4 %	43-149	2081010	MS	10-Aug-22	8015B
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Surrogate: 1-Chlorooctadecane	104 %	42.5-161	2081010	MS	10-Aug-22	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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 6 (2-3')**H223573-12 (Soil)**

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

Chloride	96.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2081023	JH	11-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	69.9-140		2081023	JH	11-Aug-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	

Surrogate: 1-Chlorooctane			88.4 %	43-149		2081010	MS	10-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane			103 %	42.5-161		2081010	MS	10-Aug-22	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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 7 (0-1')**H223573-13 (Soil)**

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

Chloride	64.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2081023	JH	11-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		103 %		69.9-140		2081023	JH	11-Aug-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	
DRO >C10-C28*	22.5		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	
EXT DRO >C28-C36	11.7		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	

Surrogate: 1-Chlorooctane		97.4 %		43-149		2081010	MS	10-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane		113 %		42.5-161		2081010	MS	10-Aug-22	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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 7 (2-3')**H223573-14 (Soil)**

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

Chloride	64.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2081023	JH	11-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	69.9-140		2081023	JH	11-Aug-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	
DRO >C10-C28*	113		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	
EXT DRO >C28-C36	59.9		10.0	mg/kg	1	2081010	MS	10-Aug-22	8015B	

Surrogate: 1-Chlorooctane			110 %	43-149		2081010	MS	10-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane			131 %	42.5-161		2081010	MS	10-Aug-22	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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 8 (0-1')**H223573-15 (Soil)**

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

Chloride	352		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.500		0.500	mg/kg	500	2081023	JH	12-Aug-22	8021B	
Toluene*	<0.500		0.500	mg/kg	500	2081023	JH	12-Aug-22	8021B	
Ethylbenzene*	4.05		0.500	mg/kg	500	2081023	JH	12-Aug-22	8021B	GC-NC1
Total Xylenes*	24.7		1.50	mg/kg	500	2081023	JH	12-Aug-22	8021B	GC-NC1
Total BTEX	28.7		3.00	mg/kg	500	2081023	JH	12-Aug-22	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 190 % 69.9-140 2081023 JH 12-Aug-22 8021B

Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	3110		200	mg/kg	20	2081010	MS	11-Aug-22	8015B	
DRO >C10-C28*	32900		200	mg/kg	20	2081010	MS	11-Aug-22	8015B	
EXT DRO >C28-C36	6700		200	mg/kg	20	2081010	MS	11-Aug-22	8015B	

Surrogate: 1-Chlorooctane 761 % 43-149 2081010 MS 11-Aug-22 8015B

Surrogate: 1-Chlorooctadecane 1140 % 42.5-161 2081010 MS 11-Aug-22 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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 8 (2-3')**H223573-16 (Soil)**

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

Chloride	576		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Total Xylenes*	0.531		0.150	mg/kg	50	2081023	JH	11-Aug-22	8021B	GC-NC1
Total BTEX	0.531		0.300	mg/kg	50	2081023	JH	11-Aug-22	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 149 % 69.9-140 2081023 JH 11-Aug-22 8021B

Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	<50.0		50.0	mg/kg	5	2081010	MS	11-Aug-22	8015B	
DRO >C10-C28*	1470		50.0	mg/kg	5	2081010	MS	11-Aug-22	8015B	
EXT DRO >C28-C36	412		50.0	mg/kg	5	2081010	MS	11-Aug-22	8015B	

Surrogate: 1-Chlorooctane 106 % 43-149 2081010 MS 11-Aug-22 8015B

Surrogate: 1-Chlorooctadecane 176 % 42.5-161 2081010 MS 11-Aug-22 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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 8 (4-5')**H223573-17 (Soil)**

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

Chloride	544		16.0	mg/kg	4	2081132	GM	11-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2081023	JH	11-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	108 %		69.9-140			2081023	JH	11-Aug-22	8021B	
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Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	<50.0		50.0	mg/kg	5	2081010	MS	11-Aug-22	8015B	
DRO >C10-C28*	1040		50.0	mg/kg	5	2081010	MS	11-Aug-22	8015B	
EXT DRO >C28-C36	292		50.0	mg/kg	5	2081010	MS	11-Aug-22	8015B	

Surrogate: 1-Chlorooctane	114 %		43-149			2081010	MS	11-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane	175 %		42.5-161			2081010	MS	11-Aug-22	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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 9 (0-1')**H223573-18 (Soil)**

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

Chloride	64.0		16.0	mg/kg	4	2081132	GM	11-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2081023	JH	11-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		103 %		69.9-140		2081023	JH	11-Aug-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2081010	MS	11-Aug-22	8015B	
DRO >C10-C28*	12.8		10.0	mg/kg	1	2081010	MS	11-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2081010	MS	11-Aug-22	8015B	

Surrogate: 1-Chlorooctane		97.6 %		43-149		2081010	MS	11-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane		113 %		42.5-161		2081010	MS	11-Aug-22	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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 10 (0-1')**H223573-19 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	2081132	GM	11-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2081023	JH	12-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2081023	JH	12-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2081023	JH	12-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2081023	JH	12-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2081023	JH	12-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	69.9-140		2081023	JH	12-Aug-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2081021	MS	10-Aug-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2081021	MS	10-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2081021	MS	10-Aug-22	8015B	

Surrogate: 1-Chlorooctane			102 %	43-149		2081021	MS	10-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane			101 %	42.5-161		2081021	MS	10-Aug-22	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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 11 (0-1')**H223573-20 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	2081132	GM	11-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2081023	JH	12-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2081023	JH	12-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2081023	JH	12-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2081023	JH	12-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2081023	JH	12-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		104 %		69.9-140		2081023	JH	12-Aug-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2081021	MS	10-Aug-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2081021	MS	10-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2081021	MS	10-Aug-22	8015B	

Surrogate: 1-Chlorooctane		92.1 %		43-149		2081021	MS	10-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane		92.9 %		42.5-161		2081021	MS	10-Aug-22	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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 12 (0-1')**H223573-21 (Soil)**

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

Chloride	16.0		16.0	mg/kg	4	2081132	GM	11-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2081023	JH	12-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2081023	JH	12-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2081023	JH	12-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2081023	JH	12-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2081023	JH	12-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		103 %		69.9-140		2081023	JH	12-Aug-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2081021	MS	10-Aug-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2081021	MS	10-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2081021	MS	10-Aug-22	8015B	

Surrogate: 1-Chlorooctane		95.9 %		43-149		2081021	MS	10-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane		98.3 %		42.5-161		2081021	MS	10-Aug-22	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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 13 (0-1')**H223573-22 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	2081132	GM	11-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2081023	JH	12-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2081023	JH	12-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2081023	JH	12-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2081023	JH	12-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2081023	JH	12-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	69.9-140		2081023	JH	12-Aug-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2081021	MS	10-Aug-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2081021	MS	10-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2081021	MS	10-Aug-22	8015B	

Surrogate: 1-Chlorooctane			99.2 %	43-149		2081021	MS	10-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane			102 %	42.5-161		2081021	MS	10-Aug-22	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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 14 (0-1')**H223573-23 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	2081132	GM	11-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2081023	JH	12-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2081023	JH	12-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2081023	JH	12-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2081023	JH	12-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2081023	JH	12-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		103 %		69.9-140		2081023	JH	12-Aug-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2081021	MS	15-Aug-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2081021	MS	15-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2081021	MS	15-Aug-22	8015B	

Surrogate: 1-Chlorooctane		76.5 %		43-149		2081021	MS	15-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane		80.7 %		42.5-161		2081021	MS	15-Aug-22	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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 15 (0-1')**H223573-24 (Soil)**

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

Chloride	64.0		16.0	mg/kg	4	2081132	GM	12-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2081023	JH	12-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2081023	JH	12-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2081023	JH	12-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2081023	JH	12-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2081023	JH	12-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.0 %	69.9-140		2081023	JH	12-Aug-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2081021	MS	10-Aug-22	8015B	
DRO >C10-C28*	184		10.0	mg/kg	1	2081021	MS	10-Aug-22	8015B	
EXT DRO >C28-C36	130		10.0	mg/kg	1	2081021	MS	10-Aug-22	8015B	

Surrogate: 1-Chlorooctane			101 %	43-149		2081021	MS	10-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane			115 %	42.5-161		2081021	MS	10-Aug-22	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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 16 (0-1')**H223573-25 (Soil)**

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

Chloride	112		16.0	mg/kg	4	2081132	GM	12-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2081031	JH	11-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2081031	JH	11-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2081031	JH	11-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2081031	JH	11-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2081031	JH	11-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			117 %	69.9-140		2081031	JH	11-Aug-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2081021	MS	10-Aug-22	8015B	
DRO >C10-C28*	15.2		10.0	mg/kg	1	2081021	MS	10-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2081021	MS	10-Aug-22	8015B	

Surrogate: 1-Chlorooctane			111 %	43-149		2081021	MS	10-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane			118 %	42.5-161		2081021	MS	10-Aug-22	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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 17 (0-1')**H223573-26 (Soil)**

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

Chloride	64.0		16.0	mg/kg	4	2081132	GM	12-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	2081031	JH	11-Aug-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2081031	JH	11-Aug-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2081031	JH	11-Aug-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2081031	JH	11-Aug-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2081031	JH	11-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	116 %	69.9-140	2081031	JH	11-Aug-22	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	2081021	MS	10-Aug-22	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2081021	MS	10-Aug-22	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2081021	MS	10-Aug-22	8015B

Surrogate: 1-Chlorooctane	92.2 %	43-149	2081021	MS	10-Aug-22	8015B
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Surrogate: 1-Chlorooctadecane	96.8 %	42.5-161	2081021	MS	10-Aug-22	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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 18 (0-1')**H223573-27 (Soil)**

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

Chloride	64.0		16.0	mg/kg	4	2081132	GM	12-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2081126	JH/	12-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2081126	JH/	12-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2081126	JH/	12-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2081126	JH/	12-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2081126	JH/	12-Aug-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			92.5 %	69.9-140		2081126	JH/	12-Aug-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2081021	MS	10-Aug-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2081021	MS	10-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2081021	MS	10-Aug-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			95.1 %	43-149		2081021	MS	10-Aug-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			95.7 %	42.5-161		2081021	MS	10-Aug-22	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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

AH - 19 (0-1')**H223573-28 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	2081132	GM	12-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2081126	JH/	12-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2081126	JH/	12-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2081126	JH/	12-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2081126	JH/	12-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2081126	JH/	12-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			92.6 %	69.9-140		2081126	JH/	12-Aug-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2081030	MS	11-Aug-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2081030	MS	11-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2081030	MS	11-Aug-22	8015B	

Surrogate: 1-Chlorooctane			80.1 %	43-149		2081030	MS	11-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane			94.2 %	42.5-161		2081030	MS	11-Aug-22	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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

Inorganic Compounds - 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 2081131 - 1:4 DI Water**Blank (2081131-BLK1)**

Prepared & Analyzed: 11-Aug-22

Chloride	ND	16.0	mg/kg							
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LCS (2081131-BS1)

Prepared & Analyzed: 11-Aug-22

Chloride	432	16.0	mg/kg	400		108	80-120			
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LCS Dup (2081131-BSD1)

Prepared & Analyzed: 11-Aug-22

Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
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Batch 2081132 - 1:4 DI Water**Blank (2081132-BLK1)**

Prepared & Analyzed: 11-Aug-22

Chloride	ND	16.0	mg/kg							
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LCS (2081132-BS1)

Prepared & Analyzed: 11-Aug-22

Chloride	416	16.0	mg/kg	400		104	80-120			
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LCS Dup (2081132-BSD1)

Prepared & Analyzed: 11-Aug-22

Chloride	416	16.0	mg/kg	400		104	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: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

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 2081017 - Volatiles**Blank (2081017-BLK1)**

Prepared: 10-Aug-22 Analyzed: 11-Aug-22

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)	0.0501		mg/kg	0.0500		100	69.9-140			

LCS (2081017-BS1)

Prepared: 10-Aug-22 Analyzed: 11-Aug-22

Benzene	1.81	0.050	mg/kg	2.00		90.6	83.4-122			
Toluene	1.94	0.050	mg/kg	2.00		96.9	84.2-126			
Ethylbenzene	1.84	0.050	mg/kg	2.00		91.8	84.2-121			
m,p-Xylene	3.79	0.100	mg/kg	4.00		94.7	89.9-126			
o-Xylene	1.91	0.050	mg/kg	2.00		95.4	84.3-123			
Total Xylenes	5.70	0.150	mg/kg	6.00		94.9	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0497		mg/kg	0.0500		99.5	69.9-140			

LCS Dup (2081017-BSD1)

Prepared: 10-Aug-22 Analyzed: 11-Aug-22

Benzene	1.69	0.050	mg/kg	2.00		84.7	83.4-122	6.68	12.6	
Toluene	1.84	0.050	mg/kg	2.00		92.1	84.2-126	5.07	13.3	
Ethylbenzene	1.74	0.050	mg/kg	2.00		86.9	84.2-121	5.47	13.9	
m,p-Xylene	3.55	0.100	mg/kg	4.00		88.6	89.9-126	6.63	13.6	BS-3
o-Xylene	1.78	0.050	mg/kg	2.00		89.1	84.3-123	6.79	14.1	
Total Xylenes	5.33	0.150	mg/kg	6.00		88.8	89.1-124	6.68	13.4	BS-3
Surrogate: 4-Bromofluorobenzene (PID)	0.0494		mg/kg	0.0500		98.8	69.9-140			

Batch 2081023 - Volatiles**Blank (2081023-BLK1)**

Prepared: 10-Aug-22 Analyzed: 11-Aug-22

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							

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Analytical Results For:

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

Project: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

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 2081023 - Volatiles**Blank (2081023-BLK1)**

Prepared: 10-Aug-22 Analyzed: 11-Aug-22

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0515		mg/kg	0.0500		103	69.9-140			

LCS (2081023-BS1)

Prepared: 10-Aug-22 Analyzed: 11-Aug-22

Benzene	1.95	0.050	mg/kg	2.00		97.4	83.4-122			
Toluene	2.06	0.050	mg/kg	2.00		103	84.2-126			
Ethylbenzene	2.00	0.050	mg/kg	2.00		99.8	84.2-121			
m,p-Xylene	4.15	0.100	mg/kg	4.00		104	89.9-126			
o-Xylene	2.07	0.050	mg/kg	2.00		104	84.3-123			
Total Xylenes	6.22	0.150	mg/kg	6.00		104	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0518		mg/kg	0.0500		104	69.9-140			

LCS Dup (2081023-BS1)

Prepared: 10-Aug-22 Analyzed: 11-Aug-22

Benzene	1.93	0.050	mg/kg	2.00		96.4	83.4-122	0.950	12.6	
Toluene	2.04	0.050	mg/kg	2.00		102	84.2-126	1.22	13.3	
Ethylbenzene	1.96	0.050	mg/kg	2.00		98.0	84.2-121	1.83	13.9	
m,p-Xylene	4.08	0.100	mg/kg	4.00		102	89.9-126	1.67	13.6	
o-Xylene	2.00	0.050	mg/kg	2.00		100	84.3-123	3.35	14.1	
Total Xylenes	6.09	0.150	mg/kg	6.00		101	89.1-124	2.23	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0510		mg/kg	0.0500		102	69.9-140			

Batch 2081031 - Volatiles**Blank (2081031-BLK1)**

Prepared: 10-Aug-22 Analyzed: 11-Aug-22

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)	0.0576		mg/kg	0.0500		115	69.9-140			

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Analytical Results For:

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

Project: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

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 2081031 - Volatiles**LCS (2081031-BS1)**

Prepared: 10-Aug-22 Analyzed: 11-Aug-22

Benzene	1.95	0.050	mg/kg	2.00		97.3	83.4-122			
Toluene	2.07	0.050	mg/kg	2.00		103	84.2-126			
Ethylbenzene	2.11	0.050	mg/kg	2.00		105	84.2-121			
m,p-Xylene	4.35	0.100	mg/kg	4.00		109	89.9-126			
o-Xylene	2.09	0.050	mg/kg	2.00		105	84.3-123			
Total Xylenes	6.44	0.150	mg/kg	6.00		107	89.1-124			

Surrogate: 4-Bromofluorobenzene (PID) 0.0567 mg/kg 0.0500 113 69.9-140

LCS Dup (2081031-BS1)

Prepared: 10-Aug-22 Analyzed: 11-Aug-22

Benzene	1.80	0.050	mg/kg	2.00		89.9	83.4-122	7.92	12.6	
Toluene	1.90	0.050	mg/kg	2.00		94.9	84.2-126	8.64	13.3	
Ethylbenzene	1.93	0.050	mg/kg	2.00		96.6	84.2-121	8.72	13.9	
m,p-Xylene	4.00	0.100	mg/kg	4.00		100	89.9-126	8.19	13.6	
o-Xylene	1.93	0.050	mg/kg	2.00		96.3	84.3-123	8.21	14.1	
Total Xylenes	5.93	0.150	mg/kg	6.00		98.9	89.1-124	8.20	13.4	

Surrogate: 4-Bromofluorobenzene (PID) 0.0563 mg/kg 0.0500 113 69.9-140

Batch 2081126 - Volatiles**Blank (2081126-BLK1)**

Prepared: 11-Aug-22 Analyzed: 12-Aug-22

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) ND mg/kg 0.0500 92.2 69.9-140

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Analytical Results For:

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

Project: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 2081126 - Volatiles**LCS (2081126-BS1)**

Prepared: 11-Aug-22 Analyzed: 12-Aug-22

Benzene	1.99	0.050	mg/kg	2.00		99.6	83.4-122		
Toluene	2.06	0.050	mg/kg	2.00		103	84.2-126		
Ethylbenzene	2.08	0.050	mg/kg	2.00		104	84.2-121		
m,p-Xylene	4.31	0.100	mg/kg	4.00		108	89.9-126		
o-Xylene	2.01	0.050	mg/kg	2.00		100	84.3-123		
Total Xylenes	6.32	0.150	mg/kg	6.00		105	89.1-124		
Surrogate: 4-Bromofluorobenzene (PID)	0.0457		mg/kg	0.0500		91.5	69.9-140		

LCS Dup (2081126-BS1)

Prepared: 11-Aug-22 Analyzed: 12-Aug-22

Benzene	2.05	0.050	mg/kg	2.00		103	83.4-122	3.02	12.6
Toluene	2.11	0.050	mg/kg	2.00		105	84.2-126	2.10	13.3
Ethylbenzene	2.15	0.050	mg/kg	2.00		108	84.2-121	3.30	13.9
m,p-Xylene	4.44	0.100	mg/kg	4.00		111	89.9-126	3.05	13.6
o-Xylene	2.08	0.050	mg/kg	2.00		104	84.3-123	3.56	14.1
Total Xylenes	6.52	0.150	mg/kg	6.00		109	89.1-124	3.21	13.4
Surrogate: 4-Bromofluorobenzene (PID)	0.0449		mg/kg	0.0500		89.8	69.9-140		

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Analytical Results For:

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

Project: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

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 2081010 - General Prep - Organics**Blank (2081010-BLK1)**

Prepared & Analyzed: 10-Aug-22

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	46.3		mg/kg	50.0		92.5	43-149			
Surrogate: 1-Chlorooctadecane	53.6		mg/kg	50.0		107	42.5-161			

LCS (2081010-BS1)

Prepared & Analyzed: 10-Aug-22

GRO C6-C10	183	10.0	mg/kg	200		91.4	78.5-128			
DRO >C10-C28	198	10.0	mg/kg	200		99.1	75.8-135			
Total TPH C6-C28	381	10.0	mg/kg	400		95.2	81.5-127			
Surrogate: 1-Chlorooctane	48.2		mg/kg	50.0		96.4	43-149			
Surrogate: 1-Chlorooctadecane	59.4		mg/kg	50.0		119	42.5-161			

LCS Dup (2081010-BS1)

Prepared & Analyzed: 10-Aug-22

GRO C6-C10	192	10.0	mg/kg	200		95.9	78.5-128	4.84	21.4	
DRO >C10-C28	204	10.0	mg/kg	200		102	75.8-135	2.86	17.9	
Total TPH C6-C28	396	10.0	mg/kg	400		98.9	81.5-127	3.81	17.6	
Surrogate: 1-Chlorooctane	50.4		mg/kg	50.0		101	43-149			
Surrogate: 1-Chlorooctadecane	62.0		mg/kg	50.0		124	42.5-161			

Batch 2081021 - General Prep - Organics**Blank (2081021-BLK1)**

Prepared & Analyzed: 10-Aug-22

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	46.4		mg/kg	50.0		92.8	43-149			
Surrogate: 1-Chlorooctadecane	45.7		mg/kg	50.0		91.4	42.5-161			

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Analytical Results For:

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

Project: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

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 2081021 - General Prep - Organics**LCS (2081021-BS1)**

Prepared & Analyzed: 10-Aug-22

GRO C6-C10	211	10.0	mg/kg	200		105	78.5-128			
DRO >C10-C28	200	10.0	mg/kg	200		100	75.8-135			
Total TPH C6-C28	411	10.0	mg/kg	400		103	81.5-127			
Surrogate: 1-Chlorooctane	54.5		mg/kg	50.0		109	43-149			
Surrogate: 1-Chlorooctadecane	52.9		mg/kg	50.0		106	42.5-161			

LCS Dup (2081021-BS1)

Prepared: 10-Aug-22 Analyzed: 11-Aug-22

GRO C6-C10	202	10.0	mg/kg	200		101	78.5-128	3.96	21.4	
DRO >C10-C28	196	10.0	mg/kg	200		98.2	75.8-135	1.92	17.9	
Total TPH C6-C28	399	10.0	mg/kg	400		99.7	81.5-127	2.96	17.6	
Surrogate: 1-Chlorooctane	54.5		mg/kg	50.0		109	43-149			
Surrogate: 1-Chlorooctadecane	57.5		mg/kg	50.0		115	42.5-161			

Batch 2081030 - General Prep - Organics**Blank (2081030-BLK1)**

Prepared & Analyzed: 10-Aug-22

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	41.4		mg/kg	50.0		82.7	43-149			
Surrogate: 1-Chlorooctadecane	47.7		mg/kg	50.0		95.4	42.5-161			

LCS (2081030-BS1)

Prepared & Analyzed: 10-Aug-22

GRO C6-C10	224	10.0	mg/kg	200		112	78.5-128			
DRO >C10-C28	209	10.0	mg/kg	200		104	75.8-135			
Total TPH C6-C28	433	10.0	mg/kg	400		108	81.5-127			
Surrogate: 1-Chlorooctane	47.3		mg/kg	50.0		94.6	43-149			
Surrogate: 1-Chlorooctadecane	56.4		mg/kg	50.0		113	42.5-161			

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Analytical Results For:

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

Project: JAMES E UPPER BATTERY
Project Number: 212C-MD-02793
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
17-Aug-22 09:31

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 2081030 - General Prep - Organics**LCS Dup (2081030-BSD1)**

Prepared & Analyzed: 10-Aug-22

GRO C6-C10	227	10.0	mg/kg	200		113	78.5-128	1.27	21.4	
DRO >C10-C28	203	10.0	mg/kg	200		101	75.8-135	2.93	17.9	
Total TPH C6-C28	430	10.0	mg/kg	400		107	81.5-127	0.737	17.6	
Surrogate: 1-Chlorooctane	49.1		mg/kg	50.0		98.3	43-149			
Surrogate: 1-Chlorooctadecane	58.6		mg/kg	50.0		117	42.5-161			

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Custody Record



Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4539
Fax (432) 682-3946

Client Name: Conoco Phillips Site Manager: Christian Llull

Project Name: James E Upper Battery

Project Location: Eddy County, NM Project #: christian.llull@tetratech.com

Invoice to: Tetra Tech, Inc. by email. 212C-MD-02793

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

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)
		YEAR: 2022	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE

1	AH-1 (0-1')	8/9/2022	12:35	X							
2	AH-1 (2-3')	8/9/2022	12:41	X							
3	AH-2 (0-1')	8/9/2022	12:45	X							
4	AH-2 (2-3')	8/9/2022	12:47	X							
5	AH-3 (0-1')	8/9/2022	12:49	X							
6	AH-3 (2-3')	8/9/2022	12:56	X							
7	AH-4 (0-1')	8/9/2022	13:01	X							
8	AH-4 (2-3')	8/9/2022	13:10	X							
9	AH-5 (0-1')	8/9/2022	13:13	X							
10	AH-5 (2-3')	8/9/2022	13:15	X							

Relinquished by: *Christina Flores* Date: 8-10-22 Time: 0910
Received by: *Christian Llull* Date: 8-10-22 Time: 0908
Relinquished by: _____ Date: _____ Time: _____
Received by: _____ Date: _____ Time: _____

ANALYSIS REQUEST
(Circle or Specify Method No.)

BTEX 8021B	BTEX 8260B
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	
Hold	

LAB USE ONLY
Sample Temperature
4.0°C
6-0.6°C
3.4°C #113
REMARKS: Standard TAT
☐ RUSH: Same Day 24 hr 48 hr 72 hr
☐ Rush Charges Authorized
☐ Special Report Limits or TRRP Report

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Client Name:

Conoco Phillips

Site Manager:

Christian Llull

Project Name:

James E Upper Battery

christian.llull@tetratech.com

Project Location:

Eddy County, NM

Project #:

212C-MD-02793

Invoice to:

Tetra Tech, Inc. by email.

Receiving Laboratory:

Cardinal Laboratory

Sampler Signature:

Miguel A. Flores

Comments:

LAB #

LAB USE ONLY

*SAMPLE IDENTIFICATION

LAB USE ONLY

SAMPLING	DATE	TIME	MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
21	8/9/2022	14:46	X	X		
22	8/9/2022	14:50	X	X		
23	8/9/2022	14:55	X	X		
24	8/9/2022	15:00	X	X		
25	8/9/2022	15:03	X	X		
26	8/9/2022	15:04	X	X		
27	8/9/2022	15:06	X	X		
28	8/9/2022	15:09	X	X		

BTEX 8021B	BTEX 8260B	
TPH TX1005 (Ext to C35)		
TPH 8015M (GRO - DRO - ORO - MRO)		
PAH 8270C		
Total Metals Ag As Ba Cd Cr Pb Se Hg		
TCLP Metals Ag As Ba Cd Cr Pb Se Hg		
TCLP Volatiles		
TCLP Semi Volatiles		
RCI		
GC/MS Vol. 8260B / 624		
GC/MS Semi. Vol. 8270C/625		
PCB's 8082 / 608		
NORM		
PLM (Asbestos)		
Chloride		
Chloride Sulfate TDS		
General Water Chemistry (see attached list)		
Anion/Cation Balance		
Hold		

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

LAB USE ONLY

Sample Temperature

40.0°C
20.0°C
3.4°C #113

REMARKS: Standard TAT

*Sample ID changed as per Joe. 8/16/22 ck

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY



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

September 13, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: JAMES E UPPER BATTERY RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 09/08/22 14:32.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: AH - 21 (0-1') (H224131-01)

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	09/12/2022	ND	2.06	103	2.00	0.711	
Toluene*	<0.050	0.050	09/12/2022	ND	2.03	102	2.00	1.15	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.00	100	2.00	1.21	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.20	103	6.00	2.15	
Total BTX	<0.300	0.300	09/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	32.0	16.0	09/13/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	201	101	200	2.15	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	214	107	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 93.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.5 % 46.3-178

Cardinal Laboratories

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

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: AH - 22 (0-1') (H224131-02)

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	09/12/2022	ND	2.06	103	2.00	0.711		
Toluene*	<0.050	0.050	09/12/2022	ND	2.03	102	2.00	1.15		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.00	100	2.00	1.21		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.20	103	6.00	2.15		
Total BTEX	<0.300	0.300	09/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	<16.0	16.0	09/13/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	201	101	200	2.15	
DRO >C10-C28*	50.3	10.0	09/12/2022	ND	214	107	200	1.08	
EXT DRO >C28-C36	27.3	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 89.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.0 % 46.3-178

Cardinal Laboratories

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

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: AH - 23 (0-1') (H224131-03)

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	09/12/2022	ND	2.06	103	2.00	0.711	
Toluene*	<0.050	0.050	09/12/2022	ND	2.03	102	2.00	1.15	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.00	100	2.00	1.21	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.20	103	6.00	2.15	
Total BTX	<0.300	0.300	09/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	<16.0	16.0	09/13/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	201	101	200	2.15	
DRO >C10-C28*	247	10.0	09/12/2022	ND	214	107	200	1.08	
EXT DRO >C28-C36	166	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 87.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.4 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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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: <u>Conoco Phillips</u>		P.O. #:		ANALYSIS REQUEST			
Project Manager: <u>Christian Lull</u>							
Address: <u>christian.lull@tetatech.com</u>		Company: <u>Tetra Tech</u>					
City: <u>State: Zip:</u>		Attn: <u>Christian Lull</u>					
Phone #: Fax #:		Address:					
Project #: <u>012C-MD-03793</u> Project Owner:		City:					
Project Name: <u>James E Upper Battery Release</u>		State: Zip:					
Project Location: <u>Lea County, NM</u>		Phone #:					
Sample Name: <u>See Tyler</u>		Fax #:					
FOR LAB USE ONLY							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX		PRESERV.	SAMPLING
				GROUNDWATER			
				WASTEWATER			
				SOIL			
				OIL			
				SLUDGE			
				OTHER :			
				ACID/BASE:			
				ICE / COOL			
				OTHER :			
				DATE	TIME		
<u>A224131</u>	<u>AH-21 (0-1')</u>	<u>G</u>	<u>1</u>	<u>9-8-22</u>	<u>1300</u>	<u>TPH</u>	<u>X</u>
<u>2</u>	<u>AH-22 (0-1')</u>	<u>↓</u>	<u>↓</u>	<u>1320</u>	<u>1340</u>	<u>BTEX</u>	<u>X</u>
<u>3</u>	<u>AH-23 (0-1')</u>	<u>↓</u>	<u>↓</u>			<u>Chlorides</u>	<u>X</u>

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>See Tyler</u>	Date: <u>9-8-22</u>	Received By: <u>Christian Lull</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:
Relinquished By: <u>See Tyler</u>	Date: <u>9-8-22</u>	Received By: <u>Christian Lull</u>	All Results are emailed. Please provide Email address:
Delivered By: (Circle One)	Observed Temp. °C: <u>5.1</u>	Sample Condition	CHECKED BY: (Initials) <u>TL</u>
Sample - UPS - Bus - Other:	Corrected Temp. °C: <u>4.5</u>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time:
FORM-006 R-3.2 10/07/21		Thermometer ID #113	Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
		Correction Factor .05°C	Bacteria (only) Sample Condition
			Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No
			Observed Temp. °C
			Corrected Temp. °C

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



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

September 21, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: JAMES E UPPER BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/15/22 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/15/2022	Sampling Date:	09/13/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 1 (0-1) (H224289-01)

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	09/18/2022	ND	2.11	106	2.00	1.10	
Toluene*	<0.050	0.050	09/18/2022	ND	2.09	104	2.00	1.38	
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	2.03	101	2.00	1.60	
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.24	104	6.00	1.14	
Total BTX	<0.300	0.300	09/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/19/2022	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	194	97.2	200	4.44	
DRO >C10-C28*	128	10.0	09/17/2022	ND	202	101	200	8.10	
EXT DRO >C28-C36	76.7	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 83.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.7 % 46.3-178

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

Received:	09/15/2022	Sampling Date:	09/13/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 1 (2-3) (H224289-02)

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	09/18/2022	ND	2.11	106	2.00	1.10		
Toluene*	<0.050	0.050	09/18/2022	ND	2.09	104	2.00	1.38		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	2.03	101	2.00	1.60		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.24	104	6.00	1.14		
Total BTX	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	09/19/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	194	97.2	200	4.44	
DRO >C10-C28*	13.0	10.0	09/17/2022	ND	202	101	200	8.10	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 69.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 71.8 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/13/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 1 (4-5) (H224289-03)

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	09/18/2022	ND	2.11	106	2.00	1.10		
Toluene*	<0.050	0.050	09/18/2022	ND	2.09	104	2.00	1.38		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	2.03	101	2.00	1.60		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.24	104	6.00	1.14		
Total BTEx	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1410	16.0	09/19/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	194	97.2	200	4.44	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	202	101	200	8.10	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 71.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 73.5 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/13/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 1 (6-7) (H224289-04)

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	09/18/2022	ND	2.11	106	2.00	1.10		
Toluene*	<0.050	0.050	09/18/2022	ND	2.09	104	2.00	1.38		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	2.03	101	2.00	1.60		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.24	104	6.00	1.14		
Total BTEx	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1390	16.0	09/19/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	194	97.2	200	4.44	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	202	101	200	8.10	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 75.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.8 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/13/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 1 (9-10) (H224289-05)

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	09/18/2022	ND	2.11	106	2.00	1.10		
Toluene*	<0.050	0.050	09/18/2022	ND	2.09	104	2.00	1.38		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	2.03	101	2.00	1.60		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.24	104	6.00	1.14		
Total BTEx	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1710	16.0	09/19/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	194	97.2	200	4.44	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	202	101	200	8.10	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 65.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 68.2 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/13/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 1 (14-15) (H224289-06)

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	09/18/2022	ND	2.11	106	2.00	1.10		
Toluene*	<0.050	0.050	09/18/2022	ND	2.09	104	2.00	1.38		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	2.03	101	2.00	1.60		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.24	104	6.00	1.14		
Total BTEx	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1630	16.0	09/19/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	194	97.2	200	4.44	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	202	101	200	8.10	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 63.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 66.0 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/13/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 1 (19-20) (H224289-07)

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	09/18/2022	ND	2.11	106	2.00	1.10	
Toluene*	<0.050	0.050	09/18/2022	ND	2.09	104	2.00	1.38	
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	2.03	101	2.00	1.60	
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.24	104	6.00	1.14	
Total BTX	<0.300	0.300	09/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	09/19/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	194	97.2	200	4.44	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	202	101	200	8.10	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 73.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.3 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/13/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 1 (24-25) (H224289-08)

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	09/18/2022	ND	2.11	106	2.00	1.10		
Toluene*	<0.050	0.050	09/18/2022	ND	2.09	104	2.00	1.38		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	2.03	101	2.00	1.60		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.24	104	6.00	1.14		
Total BTEx	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	09/19/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	194	97.2	200	4.44	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	202	101	200	8.10	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 72.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.0 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/13/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 1 (29-30) (H224289-09)

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	09/18/2022	ND	2.11	106	2.00	1.10	
Toluene*	<0.050	0.050	09/18/2022	ND	2.09	104	2.00	1.38	
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	2.03	101	2.00	1.60	
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.24	104	6.00	1.14	
Total BTX	<0.300	0.300	09/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/19/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	194	97.2	200	4.44	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	202	101	200	8.10	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 71.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 74.4 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 2 (0-1) (H224289-10)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2022	ND	2.11	106	2.00	1.10	
Toluene*	<0.050	0.050	09/18/2022	ND	2.09	104	2.00	1.38	
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	2.03	101	2.00	1.60	GC-NC
Total Xylenes*	0.746	0.150	09/18/2022	ND	6.24	104	6.00	1.14	GC-NC1
Total BTEX	0.746	0.300	09/18/2022	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 317 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	09/19/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	348	50.0	09/17/2022	ND	194	97.2	200	4.44	
DRO >C10-C28*	14100	50.0	09/17/2022	ND	202	101	200	8.10	
EXT DRO >C28-C36	3630	50.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 171 % 45.3-161

Surrogate: 1-Chlorooctadecane 278 % 46.3-178

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

Received:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 2 (2-3) (H224289-11)

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	09/18/2022	ND	2.04	102	2.00	4.11		
Toluene*	<0.050	0.050	09/18/2022	ND	1.99	99.4	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.94	97.2	2.00	3.65	GC-NC	
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.00	100	6.00	3.99		
Total BTX	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	09/19/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	31.5	10.0	09/17/2022	ND	194	97.2	200	4.44	
DRO >C10-C28*	1760	10.0	09/17/2022	ND	202	101	200	8.10	
EXT DRO >C28-C36	470	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 133 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 2 (4-5) (H224289-12)

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	09/18/2022	ND	2.04	102	2.00	4.11		
Toluene*	<0.050	0.050	09/18/2022	ND	1.99	99.4	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.94	97.2	2.00	3.65		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.00	100	6.00	3.99		
Total BTEx	<0.300	0.300	09/18/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	09/19/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	13.1	10.0	09/17/2022	ND	194	97.2	200	4.44	
DRO >C10-C28*	809	10.0	09/17/2022	ND	202	101	200	8.10	
EXT DRO >C28-C36	241	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 76.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.4 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 2 (6-7) (H224289-13)

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	09/18/2022	ND	2.04	102	2.00	4.11		
Toluene*	<0.050	0.050	09/18/2022	ND	1.99	99.4	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.94	97.2	2.00	3.65	GC-NC	
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.00	100	6.00	3.99		
Total BTEx	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 134 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1140	16.0	09/19/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	194	97.2	200	4.44	
DRO >C10-C28*	330	10.0	09/17/2022	ND	202	101	200	8.10	
EXT DRO >C28-C36	97.3	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 66.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.2 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 2 (9-10) (H224289-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/18/2022	ND	2.04	102	2.00	4.11		
Toluene*	<0.050	0.050	09/18/2022	ND	1.99	99.4	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.94	97.2	2.00	3.65		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.00	100	6.00	3.99		
Total BTEx	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	09/19/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	194	97.2	200	4.44	
DRO >C10-C28*	164	10.0	09/17/2022	ND	202	101	200	8.10	
EXT DRO >C28-C36	54.2	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 75.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.5 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 3 (0-1) (H224289-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2022	ND	2.04	102	2.00	4.11	
Toluene*	<0.050	0.050	09/18/2022	ND	1.99	99.4	2.00	4.04	
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.94	97.2	2.00	3.65	
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.00	100	6.00	3.99	
Total BTEX	<0.300	0.300	09/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/19/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	194	97.2	200	4.44	
DRO >C10-C28*	28.6	10.0	09/17/2022	ND	202	101	200	8.10	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 78.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.6 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 3 (2-3) (H224289-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/18/2022	ND	2.04	102	2.00	4.11		
Toluene*	<0.050	0.050	09/18/2022	ND	1.99	99.4	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.94	97.2	2.00	3.65		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.00	100	6.00	3.99		
Total BTEx	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	09/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	194	97.2	200	4.44	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	202	101	200	8.10	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 77.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.8 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 3 (4-5) (H224289-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/18/2022	ND	2.04	102	2.00	4.11		
Toluene*	<0.050	0.050	09/18/2022	ND	1.99	99.4	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.94	97.2	2.00	3.65		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.00	100	6.00	3.99		
Total BTEx	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	960	16.0	09/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	194	97.2	200	4.44	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	202	101	200	8.10	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 73.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.7 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 3 (6-7) (H224289-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/18/2022	ND	2.04	102	2.00	4.11		
Toluene*	<0.050	0.050	09/18/2022	ND	1.99	99.4	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.94	97.2	2.00	3.65		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.00	100	6.00	3.99		
Total BTEX	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	09/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2022	ND	194	97.2	200	4.44	
DRO >C10-C28*	<10.0	10.0	09/17/2022	ND	202	101	200	8.10	
EXT DRO >C28-C36	<10.0	10.0	09/17/2022	ND					

Surrogate: 1-Chlorooctane 72.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.0 % 46.3-178

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

Received:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 3 (9-10) (H224289-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/18/2022	ND	2.04	102	2.00	4.11		
Toluene*	<0.050	0.050	09/18/2022	ND	1.99	99.4	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.94	97.2	2.00	3.65		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.00	100	6.00	3.99		
Total BTEx	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	09/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	201	100	200	2.08	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	189	94.5	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 88.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 4 (0-1) (H224289-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/18/2022	ND	2.04	102	2.00	4.11		
Toluene*	<0.050	0.050	09/18/2022	ND	1.99	99.4	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.94	97.2	2.00	3.65		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.00	100	6.00	3.99		
Total BTEx	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1960	16.0	09/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	201	100	200	2.08	
DRO >C10-C28*	157	10.0	09/19/2022	ND	189	94.5	200	2.93	
EXT DRO >C28-C36	42.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 90.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 123 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 4 (2-3) (H224289-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/18/2022	ND	2.04	102	2.00	4.11		
Toluene*	<0.050	0.050	09/18/2022	ND	1.99	99.4	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.94	97.2	2.00	3.65		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.00	100	6.00	3.99		
Total BTEx	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	09/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	201	100	200	2.08	
DRO >C10-C28*	19.9	10.0	09/19/2022	ND	189	94.5	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 4 (4-5) (H224289-22)

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	09/18/2022	ND	2.04	102	2.00	4.11		
Toluene*	<0.050	0.050	09/18/2022	ND	1.99	99.4	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.94	97.2	2.00	3.65		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.00	100	6.00	3.99		
Total BTX	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	09/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	201	100	200	2.08	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	189	94.5	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 92.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 4 (6-7) (H224289-23)

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	09/18/2022	ND	2.04	102	2.00	4.11		
Toluene*	<0.050	0.050	09/18/2022	ND	1.99	99.4	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.94	97.2	2.00	3.65		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.00	100	6.00	3.99		
Total BTEX	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	09/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	201	100	200	2.08	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	189	94.5	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 89.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 4 (9-10) (H224289-24)

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	09/18/2022	ND	2.04	102	2.00	4.11	
Toluene*	<0.050	0.050	09/18/2022	ND	1.99	99.4	2.00	4.04	
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.94	97.2	2.00	3.65	
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.00	100	6.00	3.99	
Total BTEx	<0.300	0.300	09/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	09/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	201	100	200	2.08	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	189	94.5	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 95.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 5 (0-1) (H224289-25)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2022	ND	2.04	102	2.00	4.11	
Toluene*	<0.050	0.050	09/18/2022	ND	1.99	99.4	2.00	4.04	
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.94	97.2	2.00	3.65	GC-NC
Total Xylenes*	0.942	0.150	09/18/2022	ND	6.00	100	6.00	3.99	GC-NC1
Total BTEx	0.942	0.300	09/18/2022	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 310 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	09/19/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	225	100	09/19/2022	ND	201	100	200	2.08	
DRO >C10-C28*	6000	100	09/19/2022	ND	189	94.5	200	2.93	
EXT DRO >C28-C36	1100	100	09/19/2022	ND					

Surrogate: 1-Chlorooctane 146 % 45.3-161

Surrogate: 1-Chlorooctadecane 145 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 5 (2-3) (H224289-26)

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	09/18/2022	ND	2.04	102	2.00	4.11		
Toluene*	<0.050	0.050	09/18/2022	ND	1.99	99.4	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.94	97.2	2.00	3.65		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.00	100	6.00	3.99		
Total BTEx	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/19/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	201	100	200	2.08	
DRO >C10-C28*	55.8	10.0	09/19/2022	ND	189	94.5	200	2.93	
EXT DRO >C28-C36	17.3	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 120 % 46.3-178

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

Received:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 5 (4-5) (H224289-27)

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	09/18/2022	ND	2.04	102	2.00	4.11		
Toluene*	<0.050	0.050	09/18/2022	ND	1.99	99.4	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.94	97.2	2.00	3.65		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.00	100	6.00	3.99		
Total BTEx	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	09/19/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	201	100	200	2.08	
DRO >C10-C28*	82.5	10.0	09/19/2022	ND	189	94.5	200	2.93	
EXT DRO >C28-C36	20.4	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 99.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 122 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 5 (6-7) (H224289-28)

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	09/18/2022	ND	2.04	102	2.00	4.11	
Toluene*	<0.050	0.050	09/18/2022	ND	1.99	99.4	2.00	4.04	
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.94	97.2	2.00	3.65	
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.00	100	6.00	3.99	
Total BTX	<0.300	0.300	09/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/19/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	201	100	200	2.08	
DRO >C10-C28*	17.7	10.0	09/19/2022	ND	189	94.5	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 92.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 5 (9-10) (H224289-29)

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	09/18/2022	ND	2.04	102	2.00	4.11		
Toluene*	<0.050	0.050	09/18/2022	ND	1.99	99.4	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.94	97.2	2.00	3.65		
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.00	100	6.00	3.99		
Total BTX	<0.300	0.300	09/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	09/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	201	100	200	2.08	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	189	94.5	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 87.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 5 (14-15) (H224289-30)

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	09/18/2022	ND	2.04	102	2.00	4.11	
Toluene*	<0.050	0.050	09/18/2022	ND	1.99	99.4	2.00	4.04	
Ethylbenzene*	<0.050	0.050	09/18/2022	ND	1.94	97.2	2.00	3.65	
Total Xylenes*	<0.150	0.150	09/18/2022	ND	6.00	100	6.00	3.99	
Total BTEx	<0.300	0.300	09/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	784	16.0	09/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	201	100	200	2.08	
DRO >C10-C28*	40.1	10.0	09/19/2022	ND	189	94.5	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 98.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 5 (19-20) (H224289-31)

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	09/19/2022	ND	2.17	109	2.00	2.79		
Toluene*	<0.050	0.050	09/19/2022	ND	2.09	105	2.00	2.14		
Ethylbenzene*	<0.050	0.050	09/19/2022	ND	2.02	101	2.00	1.85		
Total Xylenes*	<0.150	0.150	09/19/2022	ND	6.25	104	6.00	1.82		
Total BTEx	<0.300	0.300	09/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	09/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	201	100	200	2.08	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	189	94.5	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 94.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 5 (24-25) (H224289-32)

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	09/19/2022	ND	2.17	109	2.00	2.79		
Toluene*	<0.050	0.050	09/19/2022	ND	2.09	105	2.00	2.14		
Ethylbenzene*	<0.050	0.050	09/19/2022	ND	2.02	101	2.00	1.85		
Total Xylenes*	<0.150	0.150	09/19/2022	ND	6.25	104	6.00	1.82		
Total BTEx	<0.300	0.300	09/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2040	16.0	09/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	201	100	200	2.08	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	189	94.5	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 5 (29-30) (H224289-33)

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	09/19/2022	ND	2.17	109	2.00	2.79		
Toluene*	<0.050	0.050	09/19/2022	ND	2.09	105	2.00	2.14		
Ethylbenzene*	<0.050	0.050	09/19/2022	ND	2.02	101	2.00	1.85		
Total Xylenes*	<0.150	0.150	09/19/2022	ND	6.25	104	6.00	1.82		
Total BTEx	<0.300	0.300	09/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	09/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	201	100	200	2.08	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	189	94.5	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 93.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 6 (0-1) (H224289-34)

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	09/19/2022	ND	2.17	109	2.00	2.79		
Toluene*	<0.050	0.050	09/19/2022	ND	2.09	105	2.00	2.14		
Ethylbenzene*	<0.050	0.050	09/19/2022	ND	2.02	101	2.00	1.85		
Total Xylenes*	<0.150	0.150	09/19/2022	ND	6.25	104	6.00	1.82		
Total BTEX	<0.300	0.300	09/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	09/19/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	09/19/2022	ND	201	100	200	2.08	
DRO >C10-C28*	2060	50.0	09/19/2022	ND	189	94.5	200	2.93	
EXT DRO >C28-C36	615	50.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 83.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 119 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 6 (2-3) (H224289-35)

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	09/19/2022	ND	2.17	109	2.00	2.79		
Toluene*	<0.050	0.050	09/19/2022	ND	2.09	105	2.00	2.14		
Ethylbenzene*	<0.050	0.050	09/19/2022	ND	2.02	101	2.00	1.85		
Total Xylenes*	<0.150	0.150	09/19/2022	ND	6.25	104	6.00	1.82		
Total BTEX	<0.300	0.300	09/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	09/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2022	ND	201	100	200	2.08	
DRO >C10-C28*	397	10.0	09/20/2022	ND	189	94.5	200	2.93	
EXT DRO >C28-C36	172	10.0	09/20/2022	ND					

Surrogate: 1-Chlorooctane 94.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 140 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 6 (4-5) (H224289-36)

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	09/19/2022	ND	2.17	109	2.00	2.79		
Toluene*	<0.050	0.050	09/19/2022	ND	2.09	105	2.00	2.14		
Ethylbenzene*	<0.050	0.050	09/19/2022	ND	2.02	101	2.00	1.85		
Total Xylenes*	<0.150	0.150	09/19/2022	ND	6.25	104	6.00	1.82		
Total BTEx	<0.300	0.300	09/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	09/19/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	201	100	200	2.08	
DRO >C10-C28*	179	10.0	09/19/2022	ND	189	94.5	200	2.93	
EXT DRO >C28-C36	37.5	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 91.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 124 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 6 (6-7) (H224289-37)

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	09/19/2022	ND	2.17	109	2.00	2.79		
Toluene*	<0.050	0.050	09/19/2022	ND	2.09	105	2.00	2.14		
Ethylbenzene*	<0.050	0.050	09/19/2022	ND	2.02	101	2.00	1.85		
Total Xylenes*	<0.150	0.150	09/19/2022	ND	6.25	104	6.00	1.82		
Total BTEx	<0.300	0.300	09/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	09/19/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	201	100	200	2.08	
DRO >C10-C28*	44.0	10.0	09/19/2022	ND	189	94.5	200	2.93	
EXT DRO >C28-C36	10.3	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 83.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.9 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 6 (9-10) (H224289-38)

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	09/19/2022	ND	2.17	109	2.00	2.79		
Toluene*	<0.050	0.050	09/19/2022	ND	2.09	105	2.00	2.14		
Ethylbenzene*	<0.050	0.050	09/19/2022	ND	2.02	101	2.00	1.85		
Total Xylenes*	<0.150	0.150	09/19/2022	ND	6.25	104	6.00	1.82		
Total BTEX	<0.300	0.300	09/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	09/19/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	201	100	200	2.08	
DRO >C10-C28*	45.3	10.0	09/19/2022	ND	189	94.5	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 88.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 7 (0-1) (H224289-39)

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	09/19/2022	ND	2.17	109	2.00	2.79		
Toluene*	<0.050	0.050	09/19/2022	ND	2.09	105	2.00	2.14		
Ethylbenzene*	<0.050	0.050	09/19/2022	ND	2.02	101	2.00	1.85		
Total Xylenes*	<0.150	0.150	09/19/2022	ND	6.25	104	6.00	1.82		
Total BTX	<0.300	0.300	09/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 69.9-140

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/19/2022	ND	416	104	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: CK							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	190	94.9	200	0.671		
DRO >C10-C28*	64.0	10.0	09/19/2022	ND	175	87.6	200	5.06		
EXT DRO >C28-C36	11.8	10.0	09/19/2022	ND						

Surrogate: 1-Chlorooctane 83.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.2 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 7 (2-3) (H224289-40)

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	09/16/2022	ND	1.97	98.5	2.00	2.77		
Toluene*	<0.050	0.050	09/16/2022	ND	1.99	99.6	2.00	3.42		
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	2.02	101	2.00	3.19		
Total Xylenes*	<0.150	0.150	09/16/2022	ND	6.22	104	6.00	3.62		
Total BTEx	<0.300	0.300	09/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/19/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	190	94.9	200	0.671	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	175	87.6	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 87.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.1 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 7 (4-5) (H224289-41)

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	09/16/2022	ND	1.97	98.5	2.00	2.77		
Toluene*	<0.050	0.050	09/16/2022	ND	1.99	99.6	2.00	3.42		
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	2.02	101	2.00	3.19		
Total Xylenes*	<0.150	0.150	09/16/2022	ND	6.22	104	6.00	3.62		
Total BTX	<0.300	0.300	09/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/19/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	190	94.9	200	0.671	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	175	87.6	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 87.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.4 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 7 (6-7) (H224289-42)

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	09/16/2022	ND	1.97	98.5	2.00	2.77		
Toluene*	<0.050	0.050	09/16/2022	ND	1.99	99.6	2.00	3.42		
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	2.02	101	2.00	3.19		
Total Xylenes*	<0.150	0.150	09/16/2022	ND	6.22	104	6.00	3.62		
Total BTX	<0.300	0.300	09/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	09/19/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	190	94.9	200	0.671	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	175	87.6	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 77.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.5 % 46.3-178

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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:	09/15/2022	Sampling Date:	09/14/2022
Reported:	09/21/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02793	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO, NM		

Sample ID: BH - 7 (9-10) (H224289-43)

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	09/16/2022	ND	1.97	98.5	2.00	2.77		
Toluene*	<0.050	0.050	09/16/2022	ND	1.99	99.6	2.00	3.42		
Ethylbenzene*	<0.050	0.050	09/16/2022	ND	2.02	101	2.00	3.19		
Total Xylenes*	<0.150	0.150	09/16/2022	ND	6.22	104	6.00	3.62		
Total BTX	<0.300	0.300	09/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	09/19/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	190	94.9	200	0.671	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	175	87.6	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					

Surrogate: 1-Chlorooctane 82.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 5

FORM-606 R-3.2 10/07/21

(575) 393-2326 FAX (575) 393-2416

BILL TO

ANALYSIS REQUEST

Company Name: Cowice Phillips

Project Manager: Christina Lull

Address: christian.lull@tetratech.com

City: State: Zip:

Phone #: Fax #:

Project #: 01C-MO-C0793 Project Owner:

Project Name: JAMES E UPPER BATTERY

Project Location: Lea County, NM

Sampler Name: Tetra Tech

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H224289

1
2
3
4
5
6
7
8
9
10

BH-1 (0-1)

(3-3)

(4-5)

(6-7)

(9-10)

(14-15)

(16-20)

(24-25)

(34-50)
GHI-J (0-1)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

X X X

TPH

BTEX

Chlorides

9-13-09

1300

1305

1310

1315

1320

1325

1330

1350

1430

9-15-09

1000

P.O. #:

Company: Tetra Tech

Attn: Christina Lull

Address:

City:

State: Zip:

Phone #:

Fax #:

MATRIX

PRESERV

SAMPLING

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Relinquished By: Date: Time: Received By: Date: Time:

Joe Tylet 9-15-22 7:40 Juana Delgado Received By: Date: Time:

Verbal Result: Yes No Add'l Phone #:
All Results are emailed. Please provide Email address:

REMARKS: christian.lull@tetrotech.com

Delivered By: (Circle One)	Observed Temp. °C	Corrected Temp. °C	Sampler - UPS - Bus - Other:	Sample Condition Cool Intact Yes [x] No []	CHECKED BY: (Initials)	Turnaround Time:	Standard Rush [x]	Bacteria (only) Sample Condition Cool Intact Yes [x] No []	Observed Temp. °C	Corrected Temp. °C
[x] UPS	-0.8	1.4			JD					



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 5

[illegible]



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 3 of 5

Company Name: <i>Carco Phillips</i> Project Manager: <i>Christen Lull</i> Address: City: State: Zip: Phone #: Fax #: Project #: <i>ABC-MD-03793</i> Project Owner: Project Name: <i>Jones E Upper Battery</i> Project Location: <i>Lea County, NM</i> Sampler Name: <i>Joe Tyler</i>				BILL TO P.O. #: Company: <i>Tetra Tech</i> Attn: <i>Christen Lull</i> Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST							
FOR LAB USE ONLY				Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				Preserv. ACID/BASE: ICE / COOL OTHER:				SAMPLING			
Lab I.D.				Sample I.D.				DATE				TIME			
<i>H224289</i>				<i>BH-4 (3-3)</i>				<i>9-14-03</i>				<i>1105</i>			
<i>21</i>				<i>(4-5)</i>				<i>X</i>				<i>X</i>			
<i>22</i>				<i>(6-7)</i>				<i>X</i>				<i>X</i>			
<i>23</i>				<i>(9-10)</i>				<i>X</i>				<i>X</i>			
<i>24</i>				<i>BH-5 (0-1)</i>				<i>X</i>				<i>X</i>			
<i>25</i>				<i>(3-3)</i>				<i>X</i>				<i>X</i>			
<i>26</i>				<i>(4-5)</i>				<i>X</i>				<i>X</i>			
<i>27</i>				<i>(6-7)</i>				<i>X</i>				<i>X</i>			
<i>28</i>				<i>(9-10)</i>				<i>X</i>				<i>X</i>			
<i>29</i>				<i>(14-15)</i>				<i>X</i>				<i>X</i>			
<i>30</i>															

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Relinquished By: <i>Joe Tyler</i> Date: <i>9-15-02</i> Time: <i>1410</i>				Received By: <i>Joe Tyler</i> Date: <i>9-15-02</i> Time: <i>1410</i>				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address:			
Relinquished By: <i>Joe Tyler</i> Date: <i>9-15-02</i> Time:				Received By: <i>Joe Tyler</i> Date: <i>9-15-02</i> Time:				REMARKS:			

Delivered By: (Circle One) <input checked="" type="checkbox"/> UPS - Bus - Other:				Observed Temp. °C: <i>-0.8</i> Corrected Temp. °C: <i>-1.4</i>				Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				CHECKED BY: <i>Joe Tyler</i> (Initials)			
Turnaround Time:				Standard <input checked="" type="checkbox"/> Bacteria (only) <input type="checkbox"/> Thermometer ID #113 <input type="checkbox"/> Cool Intact <input type="checkbox"/> Correction Factor -0.5°C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>				Observed Temp. °C:				Corrected Temp. °C:			

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 49 of 50



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5

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September 27, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: JAMES E UPPER BATTERY RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 09/26/22 15:11.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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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:	09/26/2022	Sampling Date:	09/26/2022
Reported:	09/27/2022	Sampling Type:	Soil
Project Name:	JAMES E UPPER BATTERY RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02793	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: AH - 20 (0-1') (H224459-01)

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	09/27/2022	ND	1.88	94.2	2.00	9.74	
Toluene*	<0.050	0.050	09/27/2022	ND	1.83	91.4	2.00	9.07	
Ethylbenzene*	<0.050	0.050	09/27/2022	ND	1.76	88.1	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/27/2022	ND	5.43	90.4	6.00	10.2	
Total BTX	<0.300	0.300	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/27/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2022	ND	218	109	200	6.55	
DRO >C10-C28*	<10.0	10.0	09/27/2022	ND	216	108	200	6.75	
EXT DRO >C28-C36	<10.0	10.0	09/27/2022	ND					

Surrogate: 1-Chlorooctane 95.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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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

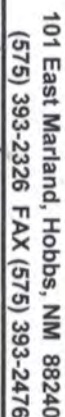
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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APPENDIX F

Seed Mixture Details

(27)

BLM Serial #:

Company Reference:

3.2 Seed Mixture for LPC Sand/Shinnery Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

*Pounds of pure live seed: Pounds of seed x percent purity x percent germination = pounds pure live seed

District I

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

District II

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

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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

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

CONDITIONS

Action 152886

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 152886
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Sidewall samples should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release, regardless of depth to groundwater. Variance has been approved: composite confirmation samples will be collected from the bottom of the excavation from areas representing no more than four hundred (400) square feet; sidewalls no more than two hundred (200) square feet.	12/6/2022