

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 a 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.

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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 SM4500CI-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 predisturbance levels. Thus, reclamation of this area is not necessary.

ConocoPhillips

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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

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

Christian M. Llull, P.G. Program Manager

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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

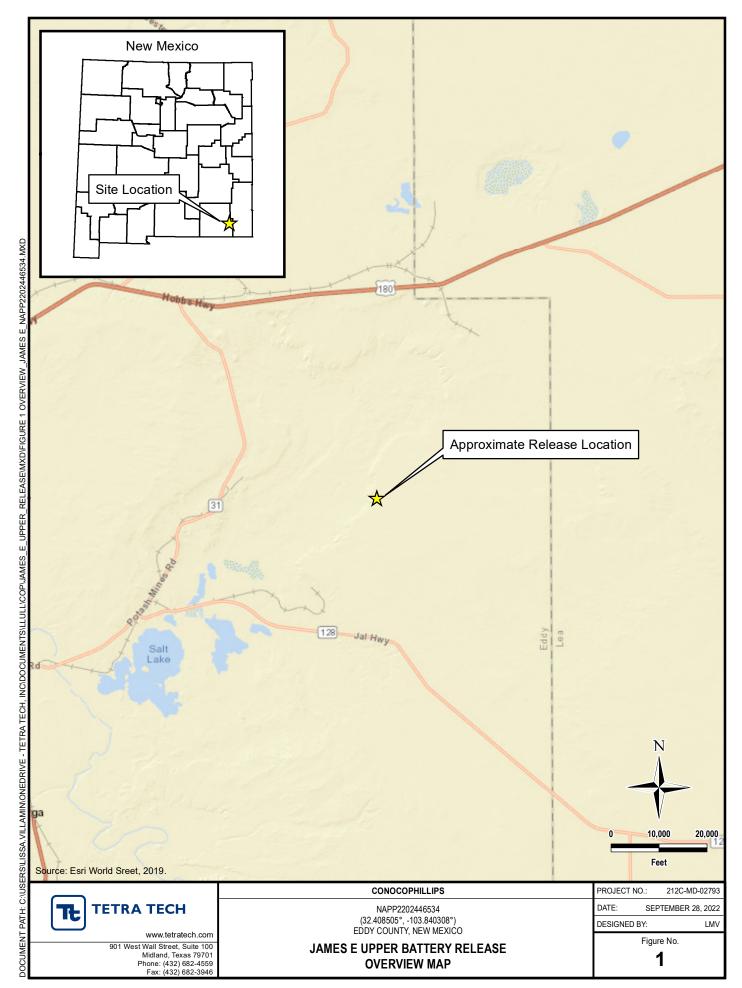
Appendices:

Appendix A – C-141 Forms

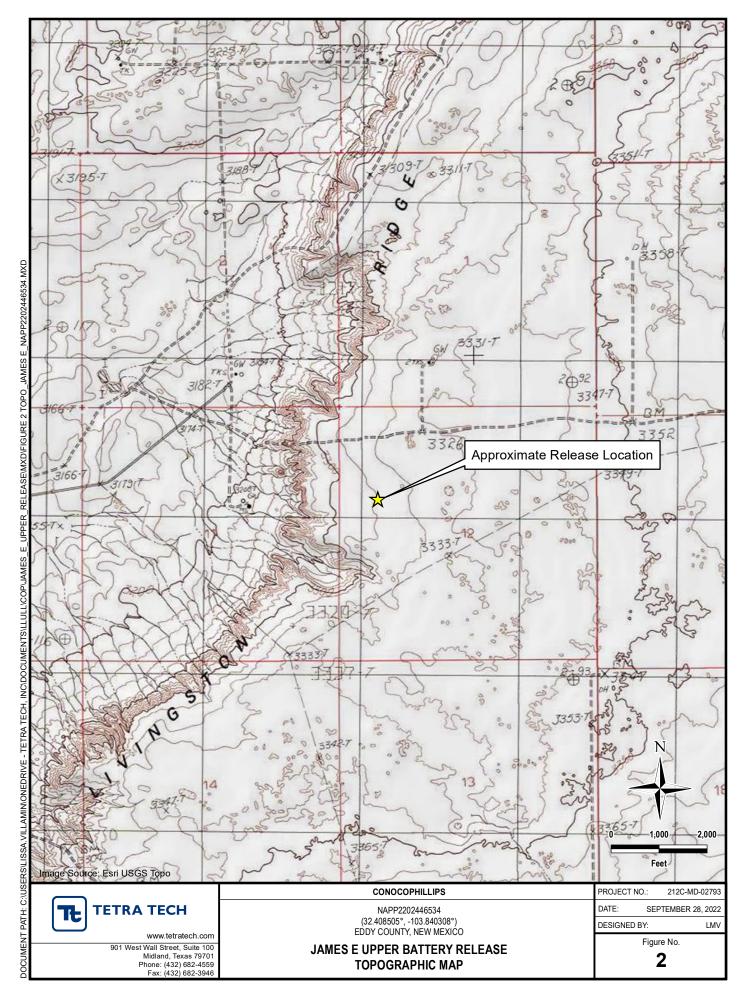
- Appendix B Site Characterization Data
- Appendix C Initial Response Waste Manifests
- Appendix D Photographic Documentation
- Appendix E Laboratory Analytical Data
- Appendix F Seed Mixture Details

FIGURES

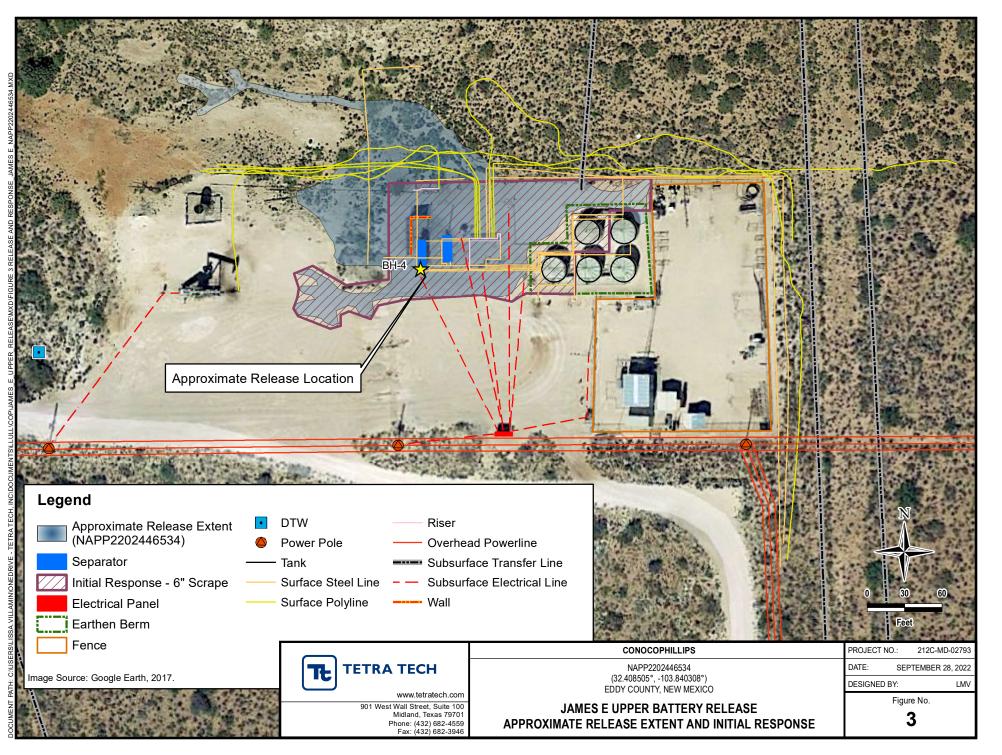
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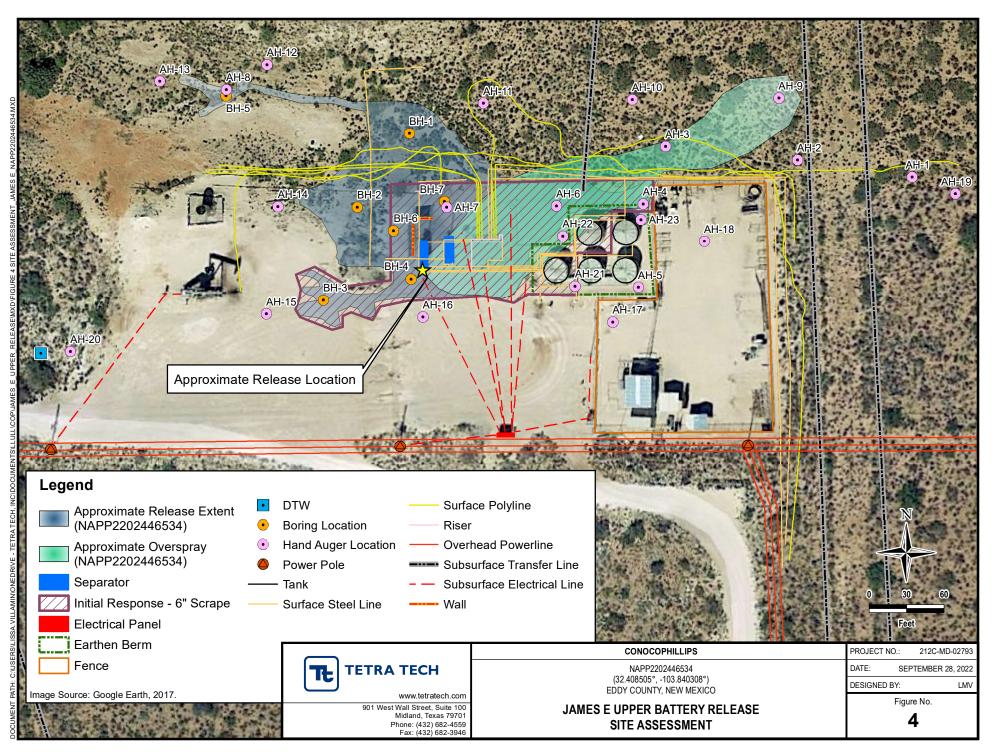


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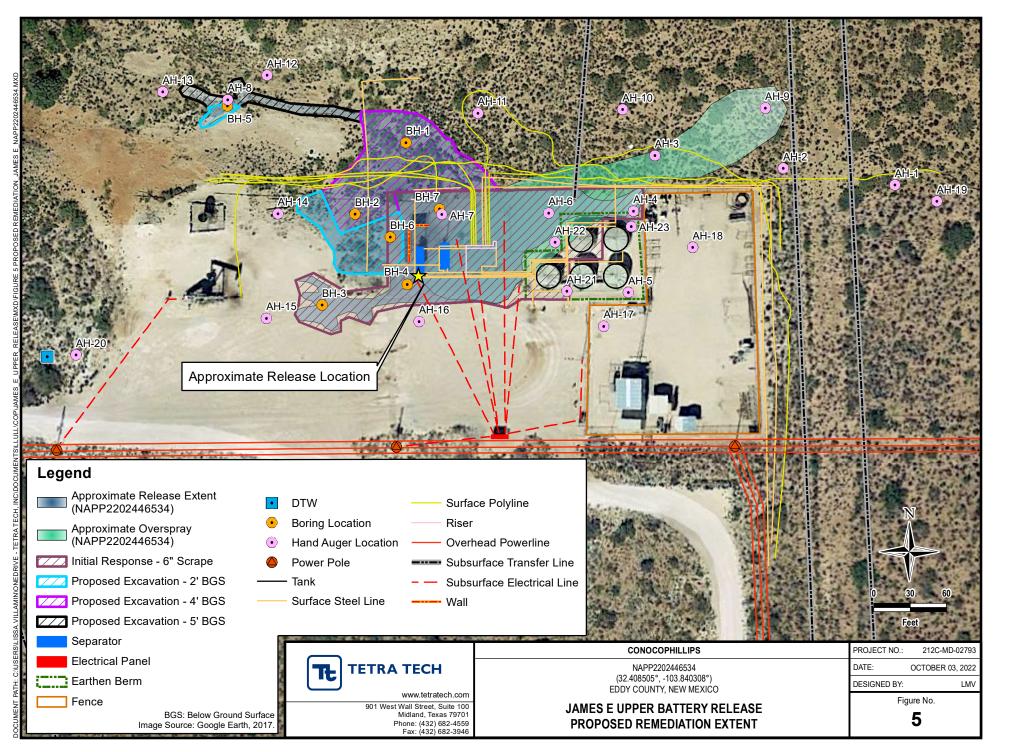


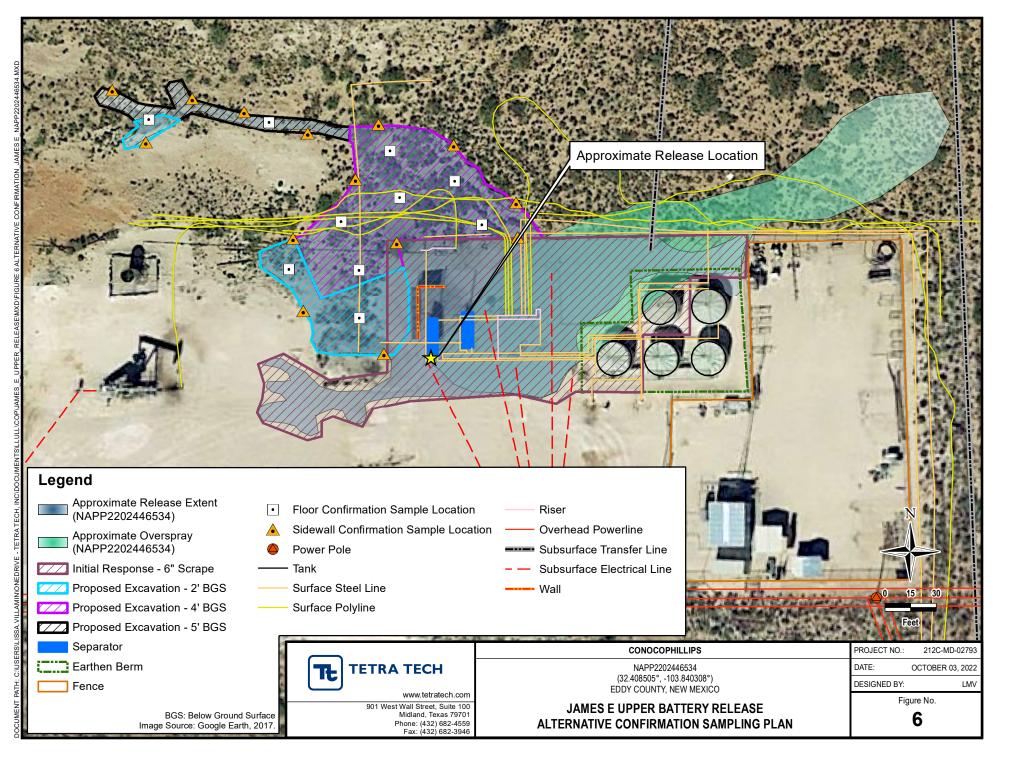
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TABLES

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

									BTEX	2 ²								TPH ³			
		Sample Depth	Field Scree	ening Results	Chloride ¹	Benzene	Toluen	P	Ethylben	zene	Total Xyle	enes	Total B	TFX	GRO		DRO	EXT D	RO	(GRO+DRO)	Total TPH
Sample ID	Sample Date		Chloride PID				C	-		-				C ₆ - C ₁	10	> C ₁₀ - C ₂₈	> C ₂₈ -		· ·	(GRO+DRO+EXT DRO)	
		ft. bgs	-	opm	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			<u>600 mg/kg</u>	<u>< 10 mg/kg</u>							<u>< 50 mg</u>							"	<u>100 mg/kg</u>
		Closure Criteria fo	or Solis >4' bgs (GW 50-100 ft):	<u>10,000 mg/kg</u>	<u>< 10 mg/kg</u>							<u>< 50 mg</u>	<u>/kg</u>		1				<u>1000 mg/kg</u>	<u>2500 mg/kg</u>
AH-1	8/9/2022	0-1 2-3			16.0 32.0	< 0.050 < 0.050	< 0.050 < 0.050		< 0.050 < 0.050		< 0.150 < 0.150		< 0.300		< 10.0 < 10.0		< 10.0 < 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			-
A11-2	6/ 5/ 2022	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	1	< 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
	1	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			352 576	< 0.500	< 0.500 < 0.050		4.05	GC-NC1		GC-NC1	28.7	GC-NC1	3,110 < 50.0		32,900 1470	6,700		36,010	42,710
Ап-о	8/9/2022	2-3 4-5			578	< 0.050 < 0.050	< 0.050		< 0.050 < 0.050		0.531 < 0.150	GC-NC1	0.531 < 0.300	GC-NC1	< 50.0		1040	412 292		1470 1040	1,882 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		12.0	-
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	<u> </u>		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	1	< 0.150		< 0.300		< 10.0		< 10.0	< 10.0	1		-
AH-15	8/9/2022	0-1	<u> </u>		64.0	< 0.050	< 0.050		< 0.050	<u> </u>	< 0.150		< 0.300		< 10.0		184	130		184	314
AH-16	8/9/2022	0-1			112	< 0.050	< 0.050		< 0.050	<u> </u>	< 0.150		< 0.300		< 10.0	•	15.2	< 10.0		15.2	15.2
AH-17	8/9/2022	0-1	<u>.</u>	· · ·	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	<u>.</u>		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:	-	•	-	•	I	- I				-						•					-

<u>NOTES:</u>

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

									BTEX ²							TPH ³		
		Sample Depth	Field Screenin	ng Results	Chloride ¹									GRO	DRO	EXT DRO		Total TPH
			Chloride	PID	Chieffac	Benzene	Toluene	Ethylben	nzene	Total Xyl	enes	Total B	TEX	C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	(GRO+DRO)	(GRO+DRO+EXT DRO)
Sample ID	Sample Date	ft. bgs	ppm		mg/kg Q	mg/kg	Q mg/kg (Q mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg Q		Q mg/kg () mg/kg	mg/kg
		_	r Pasture / Off-Pad S		<u>600 mg/kg</u>	< 10 mg/kg						<u>< 50 mg</u>						<u>100 mg/kg</u>
		Closure Criteria	for Soils >4' bgs (GW	50-100 ft):	<u>10,000 mg/kg</u>	< 10 mg/kg						< 50 mg					<u>1000 mg/kg</u>	2500 mg/kg
		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	-	-
BH-1	9/13/2022	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	-	-
		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
BH-2	9/14/2022	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
		0-1			128	< 0.050	< 0.050	< 0.050		< 0.150		< 0.300		< 10.0	28.6	< 10.0	28.6	28.6
	BH-3 9/14/2022	2-3			496	< 0.050	< 0.050	< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-	-
BH-3		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	-	-
		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
BH-4	9/14/2022	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	-	-
		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
BH-5	9/14/2022	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	-	-
		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
BH-6	9/14/2022	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	1	< 0.150	1	< 0.300	1	< 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
		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	-	-
BH-7	9/14/2022	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	-	-
				1					1		I		I		•	•		

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

		Sample Depth	Sample Depth	Field Screeni	ng Bosults				BTEX ²					TPH ³			
	Sample Depth			Sample Depth	Sample Depth	Sample Depth	Field Screenin	lig Results	Chloride ¹	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
Sample ID			Chloride	PID		Denzene Toldene	Toluene	Linyibenzene	Total Aylenes	TOTAL DIEX	C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆		(GRO+DRO+EXT DRO)		
Sample ib	Sample Date	ft. bgs	ppn	ı	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 fo	r Pasture / Off-Pad S	Soils 0-4' bgs:	<u>600 mg/kg</u>	<u>< 10 mg/kg</u>				<u>< 50 mg/kg</u>					<u>100 mg/kg</u>		
		Closure Criteria f	for Soils >4' bgs (GW	/ 50-100 ft):	<u>10,000 mg/kg</u>	<u>< 10 mg/kg</u>				<u>< 50 mg/kg</u>				<u>1000 mg/kg</u>	<u>2500 mg/kg</u>		
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

Below ground surface bgs

mg/kg Milligrams per kilogram

Total Petroleum Hydrocarbons TPH

GRO Gasoline range organics

DRO Diesel range organics

Method SM4500Cl-B 1

Method 8021B 2

3 Method 8015M

Bold and italicized values indicate exceedance of proposed Site RRALs.

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis GC-NC and are reported as ND.

GC-NC1 8260 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

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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, Midlar	nd, Texas 79701	

Location of Release Source

Latitude

32.408333

-103.840278

Longitude _____ [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)

Crude Oil	Volume Released (bbls) 61	Volume Recovered (bbls) 0
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
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.

	022 8:57:15 AM State of New Mexico		Incident ID NA					
ge 2	Oil Conservation Divisi	on	District RP	NAPP2202446534				
-			Facility ID					
			Application ID					
Was this a major	If YES, for what reason(s) does the r	esponsible party consider	this a major release	?				
release as defined by	Release was greater than 2	5 barrels.						
19.15.29.7(A) NMAC?								
Yes No								
If YES, was immediate i	notice given to the OCD? By whom?	To whom? When and by y	what means (phone.	email. etc)?				
	/en by Kelsy Waggaman via e	•						
	nm.us and BLM_NM_CFO_Sp		2022 at 0.40 i i					
	T *4* -	1.D						
	Initia	l Response						
The responsible	e party must undertake the following actions imm	ediately unless they could create	a safety hazard that wou	ld result in injury				
The source of the rel	lease has been stopped.							
The impacted area h	as been secured to protect human health	h and the environment.						
Released materials h	have been contained via the use of berm	s or dikes, absorbent pads	, or other containme	nt devices.				
All free liquids and	recoverable materials have been remove	ed and managed appropria	telv.					
	ad abarra harra nat baan yndantalran arn	lain when						
	ed above have <u>not</u> been undertaken, exp	blain why:						
	ed above have <u>not</u> been undertaken, exp	lain why:						
	ed above have <u>not</u> been undertaken, exp	ılain why:						
	ed above have <u>not</u> been undertaken, exp	olain why:						
	ed above have <u>not</u> been undertaken, exp	olain why:						
	ed above have <u>not</u> been undertaken, exp	olain why:						
If all the actions describe			alv after discovery	of a release. If remediation				
If all the actions describe Per 19.15.29.8 B. (4) NM	MAC the responsible party may comme	nce remediation immediat						
If all the actions describe Per 19.15.29.8 B. (4) NM has begun, please attach	MAC the responsible party may comme a narrative of actions to date. If remo	nce remediation immediat	ccessfully complete	d or if the release occurred				
If all the actions describe Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containme	MAC the responsible party may comme a narrative of actions to date. If reme ent area (see 19.15.29.11(A)(5)(a) NMA	nce remediation immediat edial efforts have been su AC), please attach all infor	ccessfully complete mation needed for c	d or if the release occurred losure evaluation.				
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If all the actions describe Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containme I hereby certify that the info regulations all operators are public health or the enviror	MAC the responsible party may comment a narrative of actions to date. If reme ent area (see 19.15.29.11(A)(5)(a) NMA formation given above is true and complete the e required to report and/or file certain releases ment. The acceptance of a C-141 report by	nce remediation immediatedial efforts have been succ), please attach all inforto the best of my knowledge e notifications and perform content of the OCD does not relieve the the OCD does not relieve the the the the the the the the the th	ccessfully complete mation needed for c and understand that pu orrective actions for re e operator of liability	d or if the release occurred losure evaluation. rsuant to OCD rules and eleases which may endanger should their operations have				
If all the actions describe Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containme I hereby certify that the info regulations all operators are public health or the enviror failed to adequately investi	MAC the responsible party may commend a narrative of actions to date. If reme ent area (see 19.15.29.11(A)(5)(a) NMA formation given above is true and complete the e required to report and/or file certain releases ment. The acceptance of a C-141 report by gate and remediate contamination that pose	nce remediation immediat edial efforts have been succ), please attach all infor o the best of my knowledge a e notifications and perform c the OCD does not relieve th a threat to groundwater, surf	ccessfully complete mation needed for c and understand that pu orrective actions for re e operator of liability ace water, human heal	d or if the release occurred losure evaluation. rsuant to OCD rules and eleases which may endanger should their operations have th or the environment. In				
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.,	Brittany.Esparza@ConocoPhillips.com
email:	····· / ····· · ···· / ·····

OCD Only

Received by: <u>Ramona Marcus</u>

Date: 1/24/2022

L48 Spill Volume Estimate Form

				L48 Spill Volume	2 Estimate Form				
Received by OCD:	10/24/2022 8:5	57:15 AM Name & Number: Jar	mes E Upper						Page 20:0f 161
		Asset Area: Cr	abin Lake, Hobbs	8				NAPP2202446	534
	Rele	ease Discovery Date & Time: De	cember 20th, 9	.15 am				INTH 1 2202 TTO.	994
		Release Type: oil	mixture						
	Provide any kn/	own details about the event: Sp	sill originated fro	om the pressure releave valve on the p	production separator.				
				Spill Calculation - Subsu	urface Spill - Rectangle				
	Was the	e release on pad or off-pad?			See reference table	e below			
Has it /	rained at least a h	half inch in the last 24 hours?		- -	See reference table	e 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	f 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 Imagin	ng: 12/6/2022 2	1:54:22 PM			0.000	0.000		0.000	0.000
					Total Volume Release:	17.317		2.251	15.066

Received by OCD: 10/24/2022 8:57:15 AM Form C-141 State of New Mexico

Oil Conservation Division

	Page 21 0J 10
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?	<u>>50</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🗹 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🖌 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)?	🗌 Yes 🖌 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🖌 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?	🗌 Yes 🖌 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🖌 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🖌 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🖌 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🖌 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🖌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🖌 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🖌 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.

Received by OCD: 10/24/202	22 8:57:15 AM State of New Mexico		Page 22 of 161			
Form C-141			Incident ID	NAPP2202446534		
Page 4	Oil Conservation Division		District RP			
			Facility ID			
			Application ID			
regulations all operators are republic health or the environment failed to adequately investigate addition, OCD acceptance of a and/or regulations. Printed Name: <u>Sam Widm</u> Signature: <u>Sam Widm</u>		tifications and perform cc OCD does not relieve the reat to groundwater, surfa of responsibility for compl	prrective actions for rele operator of liability sh- ce water, human health iance with any other fe Program Manager	eases which may endanger ould their operations have or the environment. In deral, state, or local laws		
OCD Only Received by:Jocelyn H	larimon	Date: 10	/24/2022			

Received by OCD: 10/24/2022 8:57:15 AM Form C-141 State of New Mexico

Oil Conservation Division

Incide	nt ID	NAPP2202446534
Distric	et RP	
Facilit	y ID	
Applic	cation ID	

Remediation Plan

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

[V	
[V	
[V	

Page 5

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 con	firmed as part of any rea	quest 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 complet rules and regulations all operators are required to report and/or file c which may endanger public health or the environment. The acceptan liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local la	ertain release notification nce of a C-141 report by and remediate contamin acceptance of a C-141 rep	ns and perform corrective actions for releases the OCD does not relieve the operator of action that pose a threat to groundwater,							
Printed Name: Sam Widmer	Title: Principal P	rogram Manager							
DocuSigned by:									
Signature: Sam Widman	Date: 0ct-17-2022	2							
email:Sam.Widmer@conocophillips.com	Telephone:	281-206-5298							
OCD Only									
Received by: Jocelyn Harimon	Date:10/24/2022								
Approved Approved with Attached Conditions of A	Approval 🗌 Deni	ied 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)					2=NE 3	3=SW 4=SE gest) (N	:) AD83 UTM in me	eters)	(1	In feet)	
	POD											
POD Number	Sub- Code basin Cou		QQ 164		Tws	Rna	х	Y	Distance	-	Depth V Water C	
C 04528 POD1	CUB EI	-			22S		608886	3585625 🌍	703			
<u>C 02749</u>	CUB EI	D 1	1 1	18	22S	31E	610556	3585146* 🌍	1899	640		
<u>C 02750</u>	CUB EI	D 1	1 1	18	22S	31E	610556	3585146* 🌍	1899	741		
<u>C 02751</u>	CUB EI	D 1	1 1	18	22S	31E	610556	3585146* 🌍	1899	637		
<u>C 03003</u>	CUB EI	D 3	13	31	21S	31E	610511	3588970* 🌍	3034	650		
<u>C 03002</u>	CUB EI	D 4	24	06	22S	31E	611933	3587375* 🌍	3070	668		
C 03234 EXPLORE	CUB EI	D 1	23	35	21S	30E	607695	3589207* 🌍	3201	410		
<u>C 02723</u>	CUB EI	D 2	23	15	22S	30E	606282	3584363* 🌍	3386	651		
C 02950 EXPL	CUB EI	D 4	24	23	22S	30E	608740	3582576* 🌍	3745	845		
<u>C 02637</u>	CUB EI	D 1	33	24	22S	30E	608950	3582377* 🌍	3932	759		
<u>C 02748</u>	CUB EI	D 1	23	17	22S	31E	612576	3584364* 🌍	4023	3856		
<u>C 02683</u>	CUB EI	D 3	1 1	20	22S	31E	612184	3583356* 🌍	4302	840		
<u>C 02413</u>	CUB EI	D 1	2 1	20	22S	31E	612586	3583560* 🌍	4475	737		
<u>C 02682</u>	CUB EI	5 4	44	08	22S	31E	613566	3585379* 🌍	4606	4400		
C 03112 EXPLORE	CUB EI	D 3	1 1	09	22S	31E	613753	3586590* 🌍	4707	3567		
C 03221 EXPLORE	CUB EI	D 1	2 1	30	22S	31E	610995	3581935* 🌍	4784	651		
<u>C 03015</u>	CUB EI	D 1	43	22	22S	30E	606099	3582353* 🌍	4937	1316	262	1054
								Avera	ge Depth to	Water:	262 fe	et
									Minimum	Depth:	262 fe	et
									Maximum	Depth:	262 fe	et
Record Count: 17	Record Count: 17											
UTMNAD83 Radius	Search (in meters):	<u>.</u>										
Easting (X): 6090	53.88	No	orthin	g (Y)	: 358	86308.3	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



Karst Potential Map



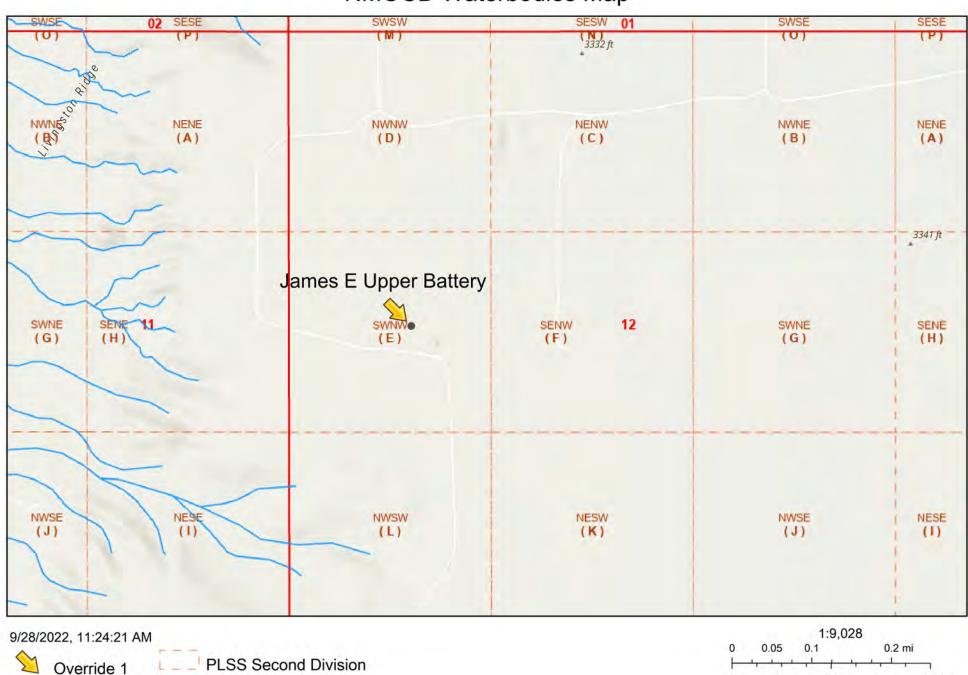
Approximate Release Point

GRAGIC Fraging 12/6/2022 2:54:22 PM

3 mi

N





PLSS First Division

OSE Streams

0.4 km Esri, NASA, NGA, USGS, FEMA, Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, © OpenStreetMap, New Mexico Oil Conservation Division

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

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

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Received by OCD: 10/24/2022 8:57:15	AM		Page 28 of
212C-MD-02793	ECH	LOG OF BORING DTW Boring	Page 1 of 1
Project Name: James E Upper Battery	y Release		
Borehole Location: GPS Coordinates: 32.40832		Surface Elevation: 3311 ft	
Borehole Number: DTW Boring	Boreh Diame	nole 8 Date Started: 9/8/2022 Date Finished:	9/8/2022
DEPTH (ft) OPERATION TYPE SAMPLE SAMPLE CHLORIDE FIELD SCREENING (ppm) SCREENING (ppm) SCREENING (ppm) SAMPLE RECOVERY (%) MOISTURE CONTENT (%)	DRY DENSITY (pct) LIQUID LIMIT PLASTICITY INDEX MINUS NO. 200 (%) GRAPHIC LOG	Remarks:	<u>RY</u> ft
DEPTH (ft) DEPTH (ft) SAMPLE CHLOR SCREE SAMPLE F SCREE SAMPLE F	ŭ <u>⊢ – – – – – – – – – – – – – – – – – – </u>	MATERIAL DESCRIPTION	REMARKS
$\overline{\Delta}$ O ϕ ExStik PID ϕ \geq C		-SM- SILTY SAND: Reddish brown, medium dense, dry. - occasional caliche @ 0-1'. -SM- SILTY SAND: Tan, medium dense, with occasional caliche gravel, dry. -SP- SAND: Red, loose, dry. -SP- SAND: Red, medium dense, with occasional caliche pebbles, dry. -SP- SAND: Light red, medium dense, with occasional caliche pebbles, dry. -SP- SAND: Light red, medium dense, with occasional caliche, dry. -SW- SAND: Red, medium dense, dry. 19 -SW- SAND: Red, medium dense, dry. 19 -SW- SAND: Red, medium dense, dry. 25 -ML- MUDSTONE: Reddish brown, dense, dry. 35 -SM- SILTY SAND: Dark red, dense, dry. 40 -CL- SILTY CLAY: Reddish brown, dense, dry. 45 -SM- SILTY SAND: Tan, dense, dry. 45	
Sampler Types: Spon Acetate Liner Shelby Vane Shear Bulk Sample Grab Sample Test Pit	Operation Types: Mud Rotary Continuous Flight Auger	Hand Auger Notes: Air Rotary Surface elevation is an approximate value from Go data. Direct Push Core Barrel	ogle Earth

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

 Released to Imaging:
 12/6/2022 2:54:22
 228-22
 TT_AUSTIN_GEOTECH_NOWELL3
 2015 TT TEMPLATE DECEMBER WELL.GDT

161

APPENDIX C Initial Response Waste Manifests

Received by OCD: 10/24/2022 8:5 RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	CONOCOPHILLIPS CRI2190 ANDREW RICHARDS N/A 1/13/2022 MCNABB PARTNERS GUMAR M32	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County		lips
Facility: CRI					
Product / Service	2	Qua	antity Units	We have a strength	A THE STREET
Contaminated Soil (RCRA Exem	pt)		18.00 yards		
X RCRA Exempt: Oil Field wastes g _ RCRA Non-Exempt: Oil field waster characteristics established in RCRA re amended. The following documentativ _ MSDS Information _ RCRA H Driver/ Agent Signature	te which is non-l gulations, 40 CF on is attached to	nazardous that does not excee R 261.21-261.24 or listed haza demonstrate the above-descri	ed the minimum standar ardous waste as defined bed waste is non-hazard redgeOther (Prov	ds for waste hazard in 40 CFR, part 26 dous. (Check the ap	lous by 61, subpart D, as ppropriate items):
Customer Approval	1.00		<u> </u>		
	THI	S IS NOT AN IN	VOICE!		
Approved By:		Date	e:		

Received by OCD: 10/24/2022 RBBBC ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	ANDREW RICHARDS	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	700-1265043 Page 31 of 161 OGUJ9A000HH0 1/14/2022 CONOCOPHILLIPS JAMES E BATTERY NON-DRILLING
Facility: CRI				
Product / Service	Sec. 1	Quant	ity Units	
Contaminated Soil (RCRA Ex	kempt)	1	8.00 yards	
characteristics established in RCR	a waste which is non-l A regulations, 40 CF ntation is attached to	nazardous that does not exceed t R 261.21-261.24 or listed hazard demonstrate the above-described	he minimum standard ous waste as defined waste is non-hazard ge Other (Prov	in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
Customer Approval			\sim	
	тні	S IS NOT AN INVO	DICE!	
Approved By:		Date: _		

Received by O	BE	24/2022 8:	Custor Ordere AFE # PO #: Manife Manif.	ner #: Cl d by: Al st #: M Date: 1/	ONOCOPHIL RI2190 NDREW RICI 32 14/2022	HARDS		Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name:	700-12650 06UJ9A00 1/14/2022 CONOCO JAMES E	DOHHO PHILLIPS	ge 32 of 161
Permian Basin			Hauler Driver Truck : Card # Job Re	G # M	CNABB PAR UMER 32	INERS		Well #: Field: Field #: Rig: County	NON-DRIL	LING	
Facility: CRI											
Product / Serv	ice		3 8			Q	uantity U	nits	16.		
Contaminated	Soil (F	CRA Exen	npt)				18.00)	/ards			
	Cell	рН	CI	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:

X 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		1
	THIS IS NOT AN INVOICE!	
Approved By:	Date:	

Received by OCD: 10/24/2022 8: RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	ANDREW RICHARDS	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Field: Field #: Rig: County	700-1266296 O6UJ9A000HH0 1/18/2022 CONOCOPHILLIPS JAMES E BATTERY NON-DRILLING	161
Facility: CRI					
Product / Service	oduct / Service Quantity Units				ET.
Contaminated Soil (RCRA Exempt) 18.00 yards					
Generator Certification Statemer I hereby certify that according to the R 1988 regulatory determination, the abo X RCRA Exempt: Oil Field wastes g RCRA Non-Exempt: Oil field was characteristics established in RCRA re amended. The following documentation MSDS Information _ RCRA H	esource Conserv we described wa enerated from oi te which is non-l gulations, 40 CF on is attached to	ration and Recovery Act (RCR ste is: I and gas exploration and proc hazardous that does not exceed R 261.21-261.24 or listed hazard demonstrate the above-describ	luction operations and I the minimum standar rdous waste as defined bed waste is non-hazard	are not mixed with non-exempt wa ds for waste hazardous by in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items)	
Driver/ Agent Signature	Q7 1 9/6	R360 Representat	tive Signature		1
Customer Approval					
	THI	S IS NOT AN INV	OICE!		
Approved By:		Date	<i>v</i>		

Received by OCD: 10/24/2022	Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver	ANDREW RICHARDS	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well A: Field: Field #: Rig: County	700-1266203 O6UJ9A000HH0 1/18/2022 CONOCOPHILLI JAMES E BATTE	IPS
Facility: CRI					
Product / Service		Quant	ity Units	W Your The	
Contaminated Soil (RCRA Exer	mpt)		8.00 yards		
Generator Certification Stateme	ent of Waste Sta	tus	1		1
I hereby certify that according to the 1988 regulatory determination, the al <u>X</u> RCRA Exempt: Oil Field wastes <u>RCRA Non-Exempt: Oil field was</u> characteristics established in RCRA amended. The following documentat <u>MSDS Information</u> RCRA	bove described was generated from oil aste which is non-har regulations, 40 CFR tion is attached to d	te is: and gas exploration and produce azardous that does not exceed t 2 261.21-261.24 or listed hazard emonstrate the above-described	ction operations and he minimum standar ous waste as defined d waste is non-hazaro	are not mixed with ds for waste hazardo in 40 CFR, part 26 dous. (Check the app	non-exempt wast ous by l, subpart D, as propriate items):
Driver/ Agent Signature	- 14	R360 Representativ	/e Signature		86.1
Customer Approval			Ν		
	THIS	S IS NOT AN INVO			
			\ Y		

Received by OCD: 10/24/2022 8: RECEIVER ONMENTAL SOLUTIONS Permian Basin	Customer #:	ANDREW RICHARDS	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	700-1266137 Page 35 of 161 OGUJ9A000HH0 1/18/2022 CONOCOPHILLIPS JAMES E BATTERY NON-DRILLING
Facility: CRI				
Product / Service	ce Quantity Units			
Contaminated Soil (RCRA Exer	npt)		18.00 yards	
I hereby certify that according to the 1988 regulatory determination, the al X RCRA Exempt: Oil Field wastes RCRA Non-Exempt: Oil field w characteristics established in RCRA amended. The following documenta MSDS Information _ RCRA	bove described was generated from oi aste which is non-h regulations, 40 CF tion is attached to	ste is: I and gas exploration and produ nazardous that does not exceed R 261.21-261.24 or listed hazard demonstrate the above-describe	uction operations and the minimum standar dous waste as defined ed waste is non-hazaro	are not mixed with non-exempt wast ds for waste hazardous by in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
Driver/ Agent Signature		R360 Representat	ive Signature	
Customer Approval		1.5.1.5.1.5.1.5.1	U	V
	тні	S IS NOT AN INV	OICE!	
Approved By:		Date:		

Received by OCD: 10/24/2022 8:57	Customer #:	ANDREW RICHARDS	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	700-1266730 Page 36 of 161 O6UJ9A000HH0 1/19/2022 CONOCOPHILLIPS JAMES E BATTERY NON-DRILLING
Facility: CRI				
Product / Service	oduct / Service Quantity Units			
Contaminated Soil (RCRA Exemp	t)	10.00 yards		
I hereby certify that according to the Re 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field wast characteristics established in RCRA reg amended. The following documentatio MSDS Information _ RCRA He	ve described wa enerated from oi e which is non-l gulations, 40 CF n is attached to	ste is: l and gas exploration and produnazardous that does not exceed R 261.21-261.24 or listed hazard demonstrate the above-describe	action operations and the minimum standard lous waste as defined d waste is non-hazard	are not mixed with non-exempt wasted ds for waste hazardous by in 40 CFR, part 261, subpart D, as
Driver/ Agent Signature		R360 Representati	ve Signature	
Customer Approval	THI	S IS NOT AN INV	OICE!	
Approved By:		Date:	~	

Received by OCD: 10/24/202 RB360 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	CONOCOPHILLIPS CRI2190 ANDREW RICHARDS NA 1/19/2022 MCNABB PARTNERS DANNY M02	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	700-1266648 O6UJ9A000HH0 1/19/2022 CONOCOPHILL JAMES E BATTI	IPS
Facility: CRI					
Product / Service	and the set	Quan	tity Units	111 × 11	
Contaminated Soil (RCRA Ex	empt)		10.00 yards		
X RCRA Exempt: Oil Field was RCRA Non-Exempt: Oil field characteristics established in RCR amended. The following documer MSDS Information RCF Driver/ Agent Signature	waste which is non-h A regulations, 40 CF tation is attached to a	nazardous that does not exceed R 261.21-261.24 or listed hazard demonstrate the above-describe	the minimum standard dous waste as defined ed waste is non-hazard dge Other (Prov	ds for waste hazard in 40 CFR, part 26 dous. (Check the ap	ous by 1, subpart D, as propriate items):
Customer Approval				and the shorts	
	тні	S IS NOT AN INV		M	
Approved By:		Date:			

Received by OCD: 10/24/2022	Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver	CONOCOPHILLIPS CRI2190 ANDREW RICHARDS NA 1/21/2022 MCNABB PARTNERS RAY M02	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	700-1267620 O6UJ9A000HH0 1/21/2022 CONOCOPHILLI	
Facility: CRI					
Product / Service		Quan	tity Units	-	
Contaminated Soil (RCRA Exe	empt)		10.00 yards		
I hereby certify that according to the 1988 regulatory determination, the X RCRA Exempt: Oil Field waste RCRA Non-Exempt: Oil field characteristics established in RCRA amended. The following document MSDS Information _ RCRA	above described was es generated from oil waste which is non-h A regulations, 40 CFF tation is attached to c	te is: and gas exploration and produ azardous that does not exceed 2 261.21-261.24 or listed hazard demonstrate the above-describe	action operations and the minimum standard lous waste as defined ad waste is non-hazard	are not mixed with n ds for waste hazardo in 40 CFR, part 261, lous, (Check the app	non-exempt waste us by , subpart D, as ropriate items):
Driver/ Agent Signature		R360 Representati	ve Signature		
Customer Approval					_
	THIS	S IS NOT AN INV	OICE!	$\overline{}$	
Approved By:		Date:	Ŕ		

Received by OCD: 10/24/2022 8:57 RECEIVED BY OCD: 10/24/2022 8:57 RECEIVED BY OCD: 10/24/2022 8:57 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver	ANDREW RICHARDS MO2 1/24/2022 MCNABB PARTNERS DANNY	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field:	700-1268779 Page 39 of 161 O6UJ9A000HH0 1/24/2022 CONOCOPHILLIPS JAMES E BATTERY
	Truck # Card # Job Ref #	MO2	Field #: Rig: County	NON-DRILLING
Facility: CRI				
Product / Service	Singely 1	Quant	tity Units	
Contaminated Soil (RCRA Exemp	ot)	1	0.00 yards	
X RCRA Exempt: Oil Field wastes g _ RCRA Non-Exempt: Oil field wast characteristics established in RCRA reg amended. The following documentation _ MSDS Information _ RCRA H	te which is non-l gulations, 40 CF on is attached to	nazardous that does not exceed the R 261.21-261.24 or listed hazard demonstrate the above-describe	the minimum standar lous waste as defined d waste is non-hazarc	ds for waste hazardous by in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
Driver/ Agent Signature	1000	R360 Representati	ve Signature	
			M.	
Customer Approval				
	тн	S IS NOT AN INV	OICE!	
Approved By:		Date:		

Received by OCD: 10/24/2022 8:57 RECEIVER ON MENTAL SOLUTIONS Permian Basin	Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver	ANDREW RICHARDS	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	Page 40 of 161 700-1269227 O6UJ9A000HH0 1/25/2022 CONOCOPHILLIPS JAMES E BATTERY
Facility: CRI				
Product / Service		Quant	ity Units	
Contaminated Soil (RCRA Exemp	ot)		0.00 yards	
Generator Certification Statemer I hereby certify that according to the R 1988 regulatory determination, the abo X RCRA Exempt: Oil Field wastes g RCRA Non-Exempt: Oil field was characteristics established in RCRA re- amended. The following documentation MSDS Information _ RCRA H Driver/ Agent Signature	esource Conserva ve described was enerated from oil te which is non-h gulations, 40 CFF on is attached to d	ation and Recovery Act (RCRA te is: and gas exploration and produc azardous that does not exceed the 2 261.21-261.24 or listed hazardo emonstrate the above-describes	ction operations and a he minimum standard ous waste as defined 1 waste is non-hazard ge Other (Provi	are not mixed with non-exempt wast is for waste hazardous by in 40 CFR, part 261, subpart D, as
Customer Approval	THIS	S IS NOT AN INVO	DICE!	~

Received by OCD: 10/24/2022 8:57	154Momer:	CONOCOPHILLIPS	Ticket #:	700-1269900	Page 41 of 161
	Customer #:		Bid #:	O6UJ9A000HH0	0
PRO		ANDREW RICHARDS	Date:	1/27/2022	
N30 /	AFE #:		Generator:	CONOCOPHILL	.IPS
ENVIRONMENTAL	PO #: Manifest #:	N/A	Generator #: Well Ser. #:		
SOLUTIONS	Manif. Date:			JAMES E BATT	ERY
Permian Basin	Hauler:	MCNABB PARTNERS	Well #:		
Connull Bushi	Driver	DANNY	Field:		
	Truck #	M02	Field #:	NON DOM ()NO	
	Card #		Rig:	NON-DRILLING	
	Job Ref #		County		
Facility: CRI					
Product / Service		Quant	tity Units		1.4.4
Completion Fluids (NON-INJ)		1	0.00 bbl		
X RCRA Exempt: Oil Field wastes g RCRA Non-Exempt: Oil field waster characteristics established in RCRA re amended. The following documentation MSDS Information _ RCRA F	te which is non- gulations, 40 CF on is attached to	hazardous that does not exceed to R 261.21-261.24 or listed hazard demonstrate the above-describe	the minimum standar lous waste as defined d waste is non-hazard	ds for waste hazard in 40 CFR, part 26 dous. (Check the ap	lous by 51, subpart D, as ppropriate items):
Driver/ Agent Signature		R360 Representati	ve Signature		
Customer Approval	1		10 1	States -	
	тні	S IS NOT AN INV	OICE!		
Approved By:		Date:			
					1~

Received by OCD: 10/24/2022 8:		CONOCOPHILLIPS	Ticket #:	700-1269971 Page 42 of 161
DOGO	Customer #:	CRI2190 ANDREW RICHARDS	Bid #:	O6UJ9A000HH0
-560	AFE #:	ANDREW RICHARDS	Date: Generator:	1/27/2022 CONOCOPHILLIPS
	PO #:		Generator #:	
ENVIRONMENTAL SOLUTIONS		N/A	Well Ser. #:	
	Manif. Date: Hauler:	MCNABB PARTNERS	Well Name:	JAMES E BATTERY
Permian Basin		DANNY	Well #: Field:	
		M02	Field #:	
	Card # Job Ref #		Rig: County	NON-DRILLING
Facility: CRI				
Product / Service	2.131. 72	Quant	ity Units	
Contaminated Soil (RCRA Exer	mpt)	1	0.00 yards	
Generator Certification Statem	ent of Waste Sta	fus	1. Cl	
_ RCRA Non-Exempt: Oil field w characteristics established in RCRA amended. The following documenta _ MSDS Information _ RCRA Driver/ Agent Signature Customer Approval	regulations, 40 CFR tion is attached to d	azardous that does not exceed t 261.21-261.24 or listed hazard emonstrate the above-described	he minimum standard ous waste as defined d waste is non-hazard ge Other (Prov	in 40 CFR, part 261, subpart D, as
	TIUC			
	THIS	S IS NOT AN INVO	JICE!	
Approved By:		Date:		<u> </u>

Received by OCD: 10/24/2022 Received by OCD: 10/24/2022 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	ANDREW RICHARDS	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	700-1274187 Page 43 of 161 O6UJ9A000HH0 2/11/2022 CONOCOPHILLIPS JAMES E BATTERY NON-DRILLING
Facility: CRI				
Product / Service		Quant	tity Units	a sea statistication
Contaminated Soil (RCRA Ex	empt)		3.00 yards	
RCRA Non-Exempt: Oil field characteristics established in RCR.	tes generated from oi waste which is non-l A regulations, 40 CF tation is attached to	l and gas exploration and produ hazardous that does not exceed R 261.21-261.24 or listed hazard demonstrate the above-describe	the minimum standar dous waste as defined d waste is non-hazard	in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
Driver/ Agent Signature		R360 Representati	ve Signature	
Customer Approval			1-0	
	THI	S IS NOT AN INV	OICE!	
Approved By:		Date:		

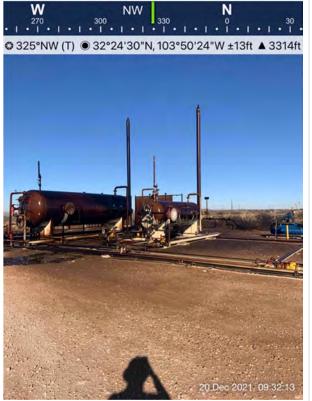
APPENDIX D Photographic Documentation



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



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



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



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



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



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

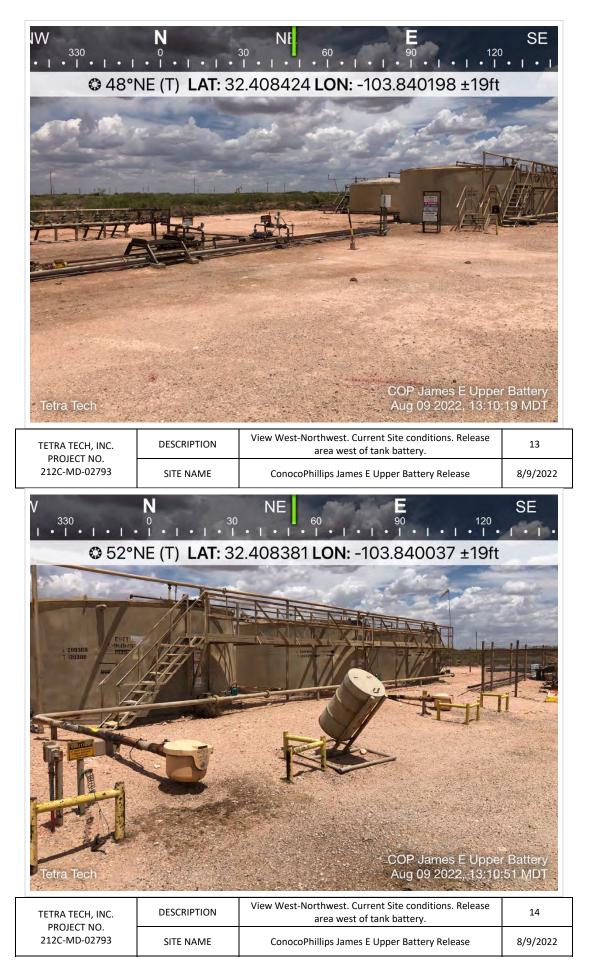


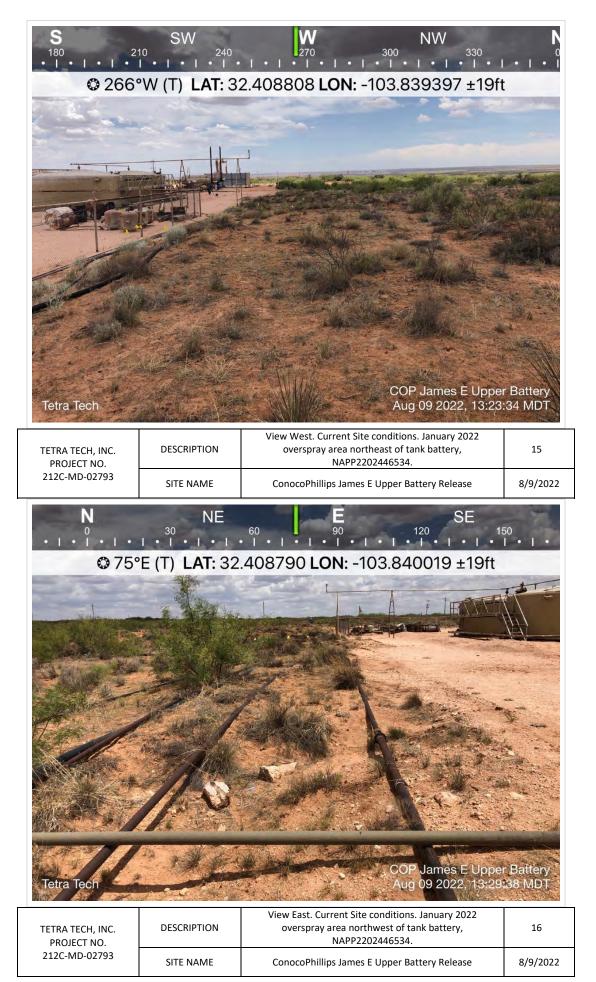
	Part and the second second	的问题,这个公司来了这些问题,但是我们有这些自己的。我们的自己的自己的。 第二章	
TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View North. Release area south of horizontal tanks post- scrape.	7
212C-MD-02793	SITE NAME	ConocoPhillips James E Upper Battery Release	1/28/2022
	W 270	NW 33 N 30 1 32*24'30'N, 103*50'25'W ±13ft 3321ft 3321ft Image: Strategy of the s	
TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View North. Release area southwest of horizontal tanks post-scrape.	8
212C-MD-02793	SITE NAME	ConocoPhillips James E Upper Battery Release	1/28/2022

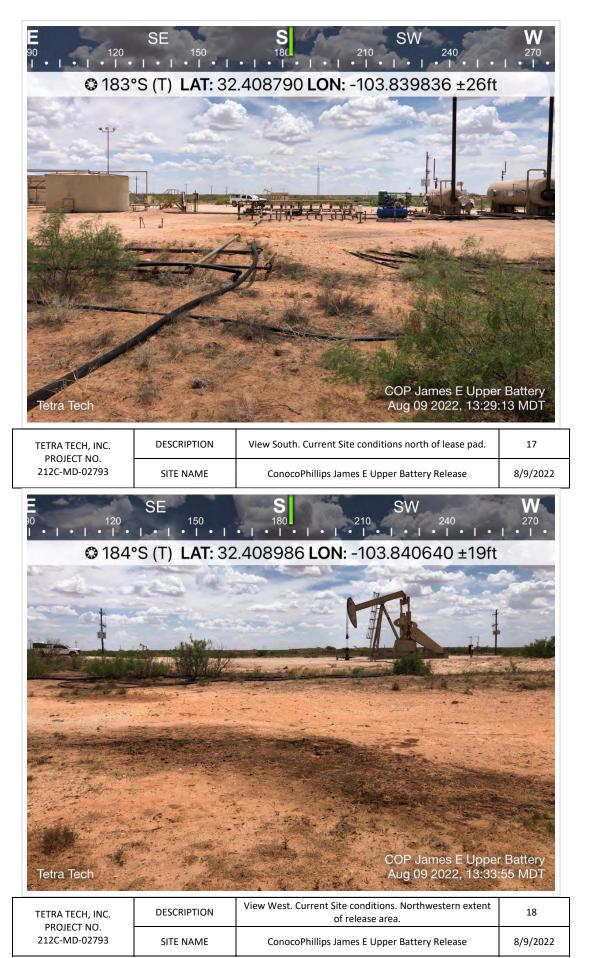


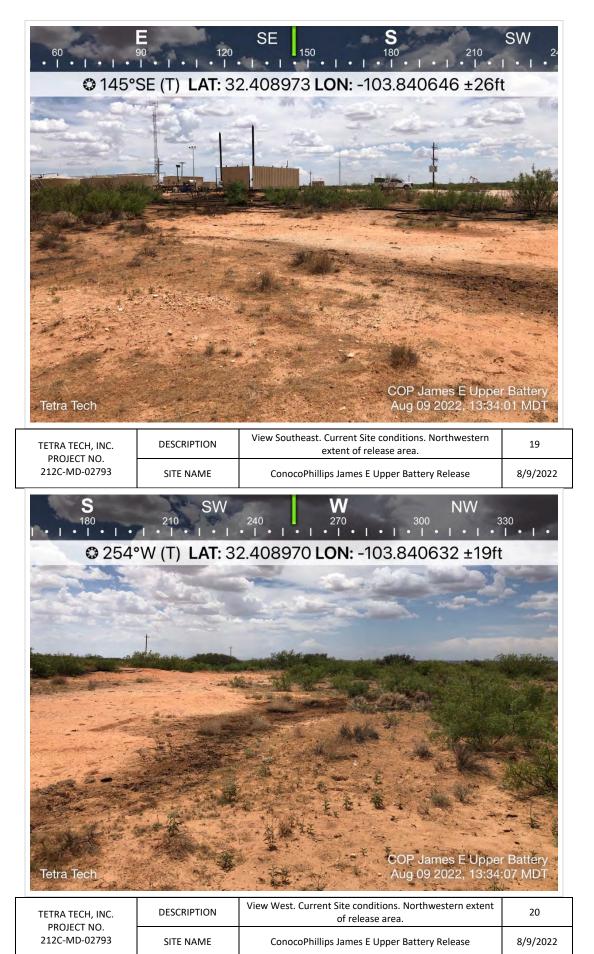
TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View West-Northwest. Current Site conditions. Release area on western pad post-scrape.	10
212C-MD-02793	SITE NAME	ConocoPhillips James E Upper Battery Release	8/9/2022











APPENDIX E Laboratory Analytical Data



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/qa/lab accred certif.html.

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

Method EPA 552.2	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. Keine

Celey D. Keene Lab Director/Quality Manager



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



TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701		Project Number: Project Manager:	JAMES E UPPER BATTERY 212C-MD-02793 CHRISTIAN LLULL (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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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701			Project Num Project Mana	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		
				1 (0-1 573-01 (Se	<i>,</i>							
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes		
			Cardina	l Laborat	ories							
Inorganic Compounds												
Chloride	16.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B			
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



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		
				1 (2-3) 573-02 (So	·					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	2081017	ЛН	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	ЛН	11-Aug-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2081017	JH	11-Aug-22	8021B	
Surrogate: 4-Bromofluorobenzene (PL	ID)		103 %	69.9	-140	2081017	ЛН	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			93.1 %	43-	149	2081010	MS	10-Aug-22	8015B	
Surrogate: 1-Chlorooctadecane	108 %	42.5-161		2081010	MS	10-Aug-22	8015B			

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701			Project Num Project Mana	nber: 212 ager: CHF		93 ULL	(1	Reported: 7-Aug-22 09:	31
				2 (0-1 573-03 (Se	,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
<u>Inorganic Compounds</u> Chloride	16.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method 8	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 (P.	ID)		101 %	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			101 %	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



TETRA TECH 901 WEST WALL STREET MIDLAND TX, 79701	Project: JAMES E UPPER BATTERY Project Number: 212C-MD-02793 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946					1	Reported: 17-Aug-22 09:31			
				2 (2-3 573-04 (Se	<i>´</i>					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	2081017	ЛН	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	ЛН	11-Aug-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2081017	ЈН	11-Aug-22	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	ID)		104 %	69.9	-140	2081017	ЛН	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			96.8 %	43-	149	2081010	MS	10-Aug-22	8015B	
Surrogate: 1-Chlorooctadecane	111 %	42.5-161		2081010	MS	10-Aug-22	8015B			

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH 901 WEST WALL STREET MIDLAND TX, 79701	, STE 100		Project Num Project Mana	iber: 212 ager: CHR		03 ULL	(Reported: 17-Aug-22 09:31			
				3 (0-1 573-05 (So	,						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	ories						
Inorganic Compounds	40.0		16.0		4	2081131	GM	11 Arra 22	4500-Cl-B		
Chloride	48.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-CI-B		
Volatile Organic Compound	s by EPA Method 8	021									
Benzene*	< 0.050		0.050	mg/kg	50	2081023	JH	11-Aug-22	8021B		
Toluene*	< 0.050		0.050	mg/kg	50	2081023	ЛН	11-Aug-22	8021B		
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2081023	ЛН	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 (P.	ID)		104 %	69.9	-140	2081023	ЛН	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			93.5 %	43-	149	2081010	MS	10-Aug-22	8015B		
Surrogate: 1-Chlorooctadecane			110 %	42.5	-161	2081010	MS	10-Aug-22	8015B		

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH 901 WEST WALL STREET MIDLAND TX, 79701	, STE 100		Project Num Project Mana	iber: 212 Iger: CHF		03 ULL	(Reported: 17-Aug-22 09:31			
				3 (2-3 573-06 (Se	,						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	ories						
Inorganic Compounds											
Chloride	32.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B		
Volatile Organic Compound	s by EPA Method 8	021									
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	ЛН	11-Aug-22	8021B		
Total BTEX	< 0.300		0.300	mg/kg	50	2081023	ЈН	11-Aug-22	8021B		
Surrogate: 4-Bromofluorobenzene (P	ID)		104 %	69.9	-140	2081023	ЛН	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			102 %	43-	149	2081010	MS	10-Aug-22	8015B		
Surrogate: 1-Chlorooctadecane			119 %	42.5	-161	2081010	MS	10-Aug-22	8015B		

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH 901 WEST WALL STREET MIDLAND TX, 79701	, STE 100		Project Num Project Mana	ber: 212 ger: CHR		3 ULL	(Reported: 17-Aug-22 09:31			
				4 (0-1) 573-07 (So	,						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	ories						
Inorganic Compounds											
Chloride	32.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B		
Volatile Organic Compounds	s by EPA Method 8	021									
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	ЛН	11-Aug-22	8021B		
Surrogate: 4-Bromofluorobenzene (Pl	D)		103 %	69.9	-140	2081023	ЈН	11-Aug-22	8021B		
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		
Surrogate: 1-Chlorooctadecane			111 %	42.5	-161	2081010	MS	11-Aug-22	8015B		

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH 901 WEST WALL STREET MIDLAND TX, 79701	, STE 100		Project Num Project Mana	ber: 212 ger: CHR	C-MD-0279	ULL	(Reported: 17-Aug-22 09:31				
				4 (2-3) 573-08 (So	·							
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes		
			Cardina	l Laborat	ories							
Inorganic Compounds												
Chloride	48.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B			
Volatile Organic Compound	s by EPA Method 80	21										
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 (PL	ID)		104 %	69.9	-140	2081023	ЛН	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*	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			
Surrogate: 1-Chlorooctadecane			109 %	42.5	-161	2081010	MS	10-Aug-22	8015B			

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH 901 WEST WALL STREET MIDLAND TX, 79701	, STE 100		Project Num Project Mana	ber: 212 ger: CHR	C-MD-0279	ULL	,	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	
			Cardina	l Laborat	ories						
Inorganic Compounds											
Chloride	16.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B		
Volatile Organic Compound	s by EPA Method 8	021									
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	ЛН	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 (P.	ID)		103 %	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			99.0 %	43-	149	2081010	MS	10-Aug-22	8015B		
Surrogate: 1-Chlorooctadecane			116 %	42.5	-161	2081010	MS	10-Aug-22	8015B		

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH 901 WEST WALL STREET , MIDLAND TX, 79701	STE 100		Project Num Project Mana Fax AH -	ber: 212 ger: CHF	RISTIAN LL 2) 682-394 ')	03 ULL	,	1	Reported: 7-Aug-22 09:	31
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	16.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	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	ЛН	11-Aug-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Surrogate: 4-Bromofluorobenzene (PII))		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			<i>99.2 %</i>	43-	149	2081010	MS	10-Aug-22	8015B	
Surrogate: 1-Chlorooctadecane	0				-161	2081010	MS	10-Aug-22	8015B	

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TETRA TECH 901 WEST WALL STREET MIDLAND TX, 79701	, STE 100		Project Num Project Mana	ber: 212 ger: CHR	C-MD-0279	ULL	(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		
			Cardina	l Laborat	ories							
Inorganic Compounds												
Chloride	96.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B			
Volatile Organic Compound	ls by EPA Method 80	21										
Benzene*	< 0.050		0.050	mg/kg	50	2081023	ЛН	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	ЛН	11-Aug-22	8021B			
Surrogate: 4-Bromofluorobenzene (P	PID)		101 %	69.9	-140	2081023	ЛН	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			87.4 %	43-	149	2081010	MS	10-Aug-22	8015B			
Surrogate: 1-Chlorooctadecane			104 %	42.5	-161	2081010	MS	10-Aug-22	8015B			

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TETRA TECH 901 WEST WALL STREET MIDLAND TX, 79701	, STE 100		Project Num Project Mana	ber: 212 ger: CHR	C-MD-0279	ULL	(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	
			Cardina	l Laborat	ories						
Inorganic Compounds											
Chloride	96.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B		
Volatile Organic Compound	s by EPA Method 8	021									
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 (P.	ID)		102 %	69.9	-140	2081023	ЛН	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			88.4 %	43-	149	2081010	MS	10-Aug-22	8015B		
Surrogate: 1-Chlorooctadecane			103 %	42.5	-161	2081010	MS	10-Aug-22	8015B		

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TETRA TECH 901 WEST WALL STREET MIDLAND TX, 79701	, STE 100		Project Num Project Mana	ber: 212 ger: CHF		93 ULL	(1	Reported: 17-Aug-22 09:31				
				7 (0-1 573-13 (So	<i>,</i>								
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes			
			Cardina	l Laborat	ories								
Inorganic Compounds													
Chloride	64.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B				
Volatile Organic Compounds	by EPA Method 8	021											
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	ЛН	11-Aug-22	8021B				
Total BTEX	< 0.300		0.300	mg/kg	50	2081023	ЈН	11-Aug-22	8021B				
Surrogate: 4-Bromofluorobenzene (PL	D)		103 %	69.9	-140	2081023	ЈН	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*	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				
Surrogate: 1-Chlorooctadecane			113 %	42.5	-161	2081010	MS	10-Aug-22	8015B				

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TETRA TECH 901 WEST WALL STREET , MIDLAND TX, 79701	STE 100		Project Num Project Mana Fax AH -	ber: 212 ger: CHF	RISTIAN LL 2) 682-394 ')	03 ULL	,	1	Reported: 7-Aug-22 09:	31
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	64.0		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	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 (PII	D)		103 %	69.9	-140	2081023	ЈН	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*	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	
Surrogate: 1-Chlorooctadecane		131 %	42.5	-161	2081010	MS	10-Aug-22	8015B		

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TETRA TECH 901 WEST WALL STREET MIDLAND TX, 79701	01 WEST WALL STREET , STE 100 Project Number: 212C-MD-02793 17-Aug-22 09:37 IDLAND TX, 79701 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946 AH - 8 (0-1')							:31		
				8 (0-1 573-15 (Se	<i>,</i>					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	352		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	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 (PL	D)		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



TETRA TECH 901 WEST WALL STREET MIDLAND TX, 79701	WEST WALL STREET , STE 100 Project Number: 212C-MD-02793 17-Aug-22 09:34 DLAND TX, 79701 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946 AH - 8 (2-3')							:31		
				8 (2-3 573-16 (Se	<i>,</i>					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	576		16.0	mg/kg	4	2081131	GM	11-Aug-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method 8	021								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	ЛН	11-Aug-22	8021B	GC-NC1
Total BTEX	0.531		0.300	mg/kg	50	2081023	ЈН	11-Aug-22	8021B	GC-NC1
Surrogate: 4-Bromofluorobenzene (Pl	ID)		149 %	69.9	-140	2081023	ЛН	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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TETRA TECH 901 WEST WALL STREET , S MIDLAND TX, 79701	STE 100		Project Num Project Mana Fax AH -	ber: 212 ger: CHR	C-MD-0279 RISTIAN LL 2) 682-394	ULL	(1	Reported: 7-Aug-22 09:	31
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds	544		16.0	mg/kg	4	2081132	GM	11-Aug-22	4500-Cl-B	
Chloride	544		16.0	mg/kg	4	2081132	Givi	11-Aug-22	4300-СІ-В	
Volatile Organic Compounds b	oy EPA Method 8	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)	I Contraction of the second		108 %	69.9	-140	2081023	JH	11-Aug-22	8021B	
<u>Petroleum Hydrocarbons by G</u>	C 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	
Surrogate: 1-Chlorooctadecane			175 %	42.5	-161	2081010	MS	11-Aug-22	8015B	

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TETRA TECH 901 WEST WALL STREET MIDLAND TX, 79701	WEST WALL STREET, STE 100 Project Number: 212C-MD-02793 17-Aug-22 09							31		
				9 (0-1' 573-18 (So	<i>,</i>					
			11223.	575-18 (50)II)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	2081132	GM	11-Aug-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method 8	021								
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	ЛН	11-Aug-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2081023	JH	11-Aug-22	8021B	
Surrogate: 4-Bromofluorobenzene (PL	ID)		103 %	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	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	
Surrogate: 1-Chlorooctadecane			113 %	42.5	-161	2081010	MS	11-Aug-22	8015B	

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TETRA TECH 901 WEST WALL STREET MIDLAND TX, 79701	ST WALL STREET , STE 100 Project Number: 212C-MD-02793 17-Aug-22 09:3							31		
				10 (0-1 573-19 (So	<i>,</i>					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	2081132	GM	11-Aug-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method 8	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	ЛН	12-Aug-22	8021B	
Surrogate: 4-Bromofluorobenzene (Ph	ID)		106 %	69.9	-140	2081023	JH	12-Aug-22	8021B	
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	
Surrogate: 1-Chlorooctadecane			101 %	42.5	-161	2081021	MS	10-Aug-22	8015B	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH 901 WEST WALL STREET MIDLAND TX, 79701	79701 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946							31		
				11 (0-1 573-20 (Se	<i>,</i>					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	2081132	GM	11-Aug-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	021								
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	ЛН	12-Aug-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2081023	JH	12-Aug-22	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		104 %	69.9	-140	2081023	JH	12-Aug-22	8021B	
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	
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



TETRA TECH 901 WEST WALL STREET MIDLAND TX, 79701	, STE 100	Project Num Project Mana	ber: 212 ager: CHF		Reported: 17-Aug-22 09:31					
				12 (0-1 573-21 (So	<i>´</i>					
				ere <u>21</u> (8)	,)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	2081132	GM	11-Aug-22	4500-Cl-B	
Volatile Organic Compound	s 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 (P	ID)		103 %	69.9	-140	2081023	ЛН	12-Aug-22	8021B	
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	
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



TETRA TECH 901 WEST WALL STREET MIDLAND TX, 79701	VALL STREET , STE 100 Project Number: 212C-MD-02793 17-Aug-22 09:3 X, 79701 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946							31		
				13 (0-1 573-22 (Se	<i>,</i>					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	2081132	GM	11-Aug-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method 8	021								
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 (P.	ID)		107 %	69.9	-140	2081023	ЈН	12-Aug-22	8021B	
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			<i>99.2 %</i>	43-	149	2081021	MS	10-Aug-22	8015B	_
Surrogate: 1-Chlorooctadecane			102 %	42.5	-161	2081021	MS	10-Aug-22	8015B	

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH 901 WEST WALL STREET MIDLAND TX, 79701	, 79701 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946							31		
				14 (0-1 573-23 (Se	,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	2081132	GM	11-Aug-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method 8	021								
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 (P.	ID)		103 %	69.9	-140	2081023	JH	12-Aug-22	8021B	
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	
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



TETRA TECH 901 WEST WALL STREET MIDLAND TX, 79701	ST WALL STREET , STE 100 Project Number: 212C-MD-02793 17-Aug-22 09:31							31		
				15 (0-1 573-24 (So	<i>´</i>					
			Reporting		,					
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	2081132	GM	12-Aug-22	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method 8	021								
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	ЛН	12-Aug-22	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		99.0 %	69.9	-140	2081023	ЛН	12-Aug-22	8021B	
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	
Surrogate: 1-Chlorooctadecane			115 %	42.5	-161	2081021	MS	10-Aug-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH 901 WEST WALL STREET MIDLAND TX, 79701	WEST WALL STREET , STE 100 Project Number: 212C-MD-02793						Reported: 7-Aug-22 09:	31		
				16 (0-1 573-25 (So	<i>´</i>					
			11220	51 6 1 6 (51	, m)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	112		16.0	mg/kg	4	2081132	GM	12-Aug-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2081031	JH	11-Aug-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2081031	ЛН	11-Aug-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2081031	ЛН	11-Aug-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2081031	ЛН	11-Aug-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2081031	JH	11-Aug-22	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		117 %	69.9	-140	2081031	ЛН	11-Aug-22	8021B	
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	
Surrogate: 1-Chlorooctadecane			118 %	42.5	-161	2081021	MS	10-Aug-22	8015B	

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH 901 WEST WALL STREET MIDLAND TX, 79701	, STE 100		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		
				17 (0-1 573-26 (Se	,						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	ll Laborat	ories						
<u>Inorganic Compounds</u> Chloride	64.0		16.0	mg/kg	4	2081132	GM	12-Aug-22	4500-Cl-B		
Volatile Organic Compound	s by EPA Method 8	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	ЛН	11-Aug-22	8021B		
Surrogate: 4-Bromofluorobenzene (P.	ID)		116 %	69.9	-140	2081031	JH	11-Aug-22	8021B		
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		
Surrogate: 1-Chlorooctadecane			96.8 %	42.5	-161	2081021	MS	10-Aug-22	8015B		

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH 901 WEST WALL STREET MIDLAND TX, 79701	01 WEST WALL STREET , STE 100				Project: JAMES E UPPER BATTERY Project Number: 212C-MD-02793 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946						
				18 (0-1 573-27 (So	<i>,</i>						
			Reporting		Dilution	D					
Analyte	Result	MDL	Ĺimit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	ories						
Inorganic Compounds											
Chloride	64.0		16.0	mg/kg	4	2081132	GM	12-Aug-22	4500-Cl-B		
Volatile Organic Compounds	s by EPA Method 8	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 (PI	D)		92.5 %	69.9	-140	2081126	JH/	12-Aug-22	8021B		
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			95.1 %	43-	149	2081021	MS	10-Aug-22	8015B		
Surrogate: 1-Chlorooctadecane			95.7 %	42.5	-161	2081021	MS	10-Aug-22	8015B		

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH 901 WEST WALL STREET MIDLAND TX, 79701	, STE 100		Project Num Project Mana	nber: 212 ager: CHF	C-MD-0279	ULL	(1	Reported: 7-Aug-22 09:	31
				19 (0-1 573-28 (So	,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds Chloride	48.0		16.0	mg/kg	4	2081132	GM	12-Aug-22	4500-Cl-B	
		0.21	10.0	mg/kg	-	2001152	GW	12-Mug-22	4500-01-0	
Volatile Organic Compound Benzene*		8021	0.050	··· - /l	50	2081126	JH/	12 4 22	8021B	
Benzene*	<0.050 <0.050		0.050 0.050	mg/kg mg/kg	50 50	2081126	JH/ JH/	12-Aug-22 12-Aug-22	8021B 8021B	
	< 0.050		0.050	mg/kg	50	2081126	JH/	12-Aug-22 12-Aug-22	8021B 8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50 50	2081120	JH/	12-Aug-22	8021B 8021B	
Total Xylenes* Total BTEX	< 0.130		0.130	mg/kg	50	2081120	JH/	12-Aug-22	8021B 8021B	
Surrogate: 4-Bromofluorobenzene (P.			92.6%	69.9		2081126	JH/	12-Aug-22	8021B	
Surroguie: 4-Bromojiuorobenzene (F.	(D)		92.0 %	09.9	-140	2081120	JH/	12-Aug-22	8021D	
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	
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



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
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Inorganic Compounds - Quality Control

Cardinal Laboratories										
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2081131 - 1:4 DI Water										
Blank (2081131-BLK1)				Prepared &	Analyzed:	11-Aug-22				
Chloride	ND	16.0	mg/kg							
LCS (2081131-BS1)				Prepared &	Analyzed:	11-Aug-22				
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (2081131-BSD1)				Prepared &	Analyzed:	11-Aug-22				
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
Batch 2081132 - 1:4 DI Water										
Blank (2081132-BLK1)				Prepared &	Analyzed:	11-Aug-22				
Chloride	ND	16.0	mg/kg							
LCS (2081132-BS1)				Prepared &	Analyzed:	11-Aug-22				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (2081132-BSD1)				Prepared &	Analyzed:	11-Aug-22				
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	

Cardinal Laboratories

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project Number: Project Manager:	JAMES E UPPER BATTERY 212C-MD-02793 CHRISTIAN LLULL (432) 682-3946	Reported: 17-Aug-22 09:31
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal	Laboratories
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		Reporting	T T '4	Spike	Source	0/DEC	%REC	DDD	RPD	NT 4
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2081017 - Volatiles										
Blank (2081017-BLK1)				Prepared: 1	0-Aug-22	Analyzed: 1	1-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: 1	0-Aug-22	Analyzed: 1	1-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: 1	0-Aug-22 /	Analyzed: 1	1-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
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
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

Cardinal Laboratories

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project Number: 2 Project Manager: (Reported: 17-Aug-22 09:31
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2081023 - Volatiles										
Blank (2081023-BLK1)				Prepared: 1	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: 1	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-BSD1)				Prepared: 1	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: 1	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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Celey D. Keene, Lab Director/Quality Manager



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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2081031 - Volatiles										
LCS (2081031-BS1)				Prepared: 1	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-BSD1)				Prepared: 1	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	
n,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: 1	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							
Fotal BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		92.2	69.9-140			
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		92.2	69.9-140			

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project Number: Project Manager:		Reported: 17-Aug-22 09:31
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		Reporting	T T 1	Spike	Source	N/DEC	%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2081126 - Volatiles										
LCS (2081126-BS1)				Prepared: 1	1-Aug-22	Analyzed: 1	2-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-BSD1)				Prepared: 1	1-Aug-22	Analyzed: 1	2-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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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project Number: Project Manager:		Reported: 17-Aug-22 09:31
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal	Laboratories

Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
			Prepared &	z Analyzed:	10-Aug-22	2			
ND	10.0	mg/kg							
ND	10.0	mg/kg							
ND	10.0	mg/kg							
46.3		mg/kg	50.0		92.5	43-149			
53.6		mg/kg	50.0		107	42.5-161			
			Prepared &	z Analyzed:	10-Aug-22	2			
183	10.0	mg/kg	200		91.4	78.5-128			
198	10.0	mg/kg	200		99.1	75.8-135			
381	10.0	mg/kg	400		95.2	81.5-127			
48.2		mg/kg	50.0		96.4	43-149			
59.4		mg/kg	50.0		119	42.5-161			
			Prepared &	Analyzed:	10-Aug-22	2			
192	10.0	mg/kg	200		95.9	78.5-128	4.84	21.4	
204	10.0	mg/kg	200		102	75.8-135	2.86	17.9	
396	10.0	mg/kg	400		98.9	81.5-127	3.81	17.6	
50.4		mg/kg	50.0		101	43-149			
62.0		mg/kg	50.0		124	42.5-161			
	ND ND ND 46.3 53.6 183 198 381 48.2 59.4 192 204 396	Result Limit ND 10.0 ND 10.0 ND 10.0 ND 10.0 46.3 53.6 183 10.0 198 10.0 381 10.0 48.2 59.4 192 10.0 204 10.0 396 10.0	Result Limit Units ND 10.0 mg/kg ND 10.0 mg/kg ND 10.0 mg/kg MD 10.0 mg/kg 46.3 mg/kg 53.6 mg/kg 198 10.0 mg/kg 381 10.0 mg/kg 59.4 mg/kg 10.0 192 10.0 mg/kg 396 10.0 mg/kg	Result Limit Units Level Prepared & ND 10.0 mg/kg ND 10.0 mg/kg ND 10.0 mg/kg MD 10.0 mg/kg 46.3 mg/kg 50.0 53.6 mg/kg 200 198 10.0 mg/kg 200 198 10.0 mg/kg 400 48.2 mg/kg 50.0 Prepared & 59.4 mg/kg 200 10.0 192 10.0 mg/kg 200 204 10.0 mg/kg 200 396 10.0 mg/kg 400	Result Limit Units Level Result Prepared & Analyzed: ND 10.0 mg/kg ND 10.0 mg/kg ND 10.0 mg/kg MD 10.0 mg/kg A6.3 mg/kg 50.0 53.6 mg/kg 200 198 10.0 mg/kg 200 198 10.0 mg/kg 400 48.2 mg/kg 50.0 59.4 mg/kg 50.0 Prepared & Analyzed: 192 10.0 mg/kg 200 204 10.0 mg/kg 200 396 10.0 mg/kg 400	Result Limit Units Level Result %REC Prepared & Analyzed: 10-Aug-22 ND 10.0 mg/kg mg/kg	Result Limit Units Level Result %REC Limits Prepared & Analyzed: 10-Aug-22 ND 10.0 mg/kg fill fill fill fill fill mg/kg fill mg/kg mg/kg fill fill	Result Limit Units Level Result %REC Limits RPD Prepared & Analyzed: 10-Aug-22 ND 10.0 mg/kg	Result Limit Units Level Result %REC Limits RPD Limit Prepared & Analyzed: 10-Aug-22 ND 10.0 mg/kg

Blank (2081021-BLK1)				Prepared & Anal	yzed: 10-Aug-22	2	
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	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project Number: Project Manager:	JAMES E UPPER BATTERY 212C-MD-02793 CHRISTIAN LLULL (432) 682-3946	Reported: 17-Aug-22 09:31	
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Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2081021 - General Prep - Organics										
LCS (2081021-BS1)				Prepared &	Analyzed:	10-Aug-22	2			
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-BSD1)				Prepared: 1	0-Aug-22	Analyzed:	1-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	2			
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	2			
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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Celey D. Keene, Lab Director/Quality Manager



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
Batch 2081030 - General Prep - Organics										
LCS Dup (2081030-BSD1)				Prepared &	analyzed:	10-Aug-22	2			
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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Celey D. Keene, Lab Director/Quality Manager



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 SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

	voinquisited by.	elinguished hur	relinquished by:	(NI)da	11.	lo AH	9 AH	AN S AH	7 AH	6 AH	STAT	4 At	A C	A CO	I At	(LAB USE)	LAB #	H223573	Comments:	Receiving Laboratory:		(county, state)	Depinet Longtion.	Project Name	Client Name:
	uate: Time:		Date: Time:	12		AH-5 (2-3')	AH-5 (0-1)	AH-4 (2-3')	AH-4 (0-1')	AH-3 (2-3')	AH-3 (0-1')	AH-2 (2-3')	AH-2 (0-1')	AH-1 (2-3')	AH-1 (0-1')		SAMPLE IDENTIFICATION			ry: Cardinal Laboratory	Tetra Tech, Inc. by email.	Eddy County, NM	James E Upper Battery	Conoco Philips	Tetra Tech, Inc.
	Received by:		Received by:	(Ille	Received by:	8/9/2022	8/9/2022	8/9/2022	8/9/2022	8/9/2022	8/9/2022	8/9/2022	8/9/2022	8/9/2022	8/9/2022	DATE	YEAR: 2022	SAMPLING		Sampler Signature:		Project #:	1.	one manager.	
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	Date: Time:		Date: Time:	4 Q-10-22 0410	Date: Time:		(1-0)	(0-1')	-5')	-3')	-1)	-3')	-1')	-3')	-1")		* SAMPLE IDENTIFICATION			Cardinal Laboratory	Tetra Tech, Inc. by email.	Eddy County, NM	James E Upper Battery	Conoco Phllips	Tetra Tech, Inc.
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				ard US		14:43	14:40	14:29	14:25	14:20	13:59	13:52	13:45	13:40	13:18	TIME		LING		iture:			christian.llull@tetratech.com		
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				10-22 04												# CONT	AINE								
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Released to Imaging: 12/6/2022 2:54:22 PM



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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



TETRA TECH 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)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	100	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.5	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	99.0	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	100	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	88.4	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240 aboratories ARDINAL

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Sampler Name: Project Name: Jakes E Upper H22413 Project Location: Project #: FOR LAB USE ONLY Lab I.D. 212C-MO-02793 UN Lea Sample I.D. AH-JJ AH-21 AH-23 earty, NM (0-1 6-1 0-1 Battery Project Owner: Kelease e 0 (G)RAB OR (C)OMP **# CONTAINERS** 2 GROUNDWATER WASTEWATER MATRIX SOIL × OIL SLUDGE OTHER State: City: Fax #: Phone #: ACID/BASE PRESERV. ICE / COOL OTHER 8-8-3) Zip DATE SAMPLING 1200 1240 1230 TIME X × x

Relinquished By: service. In no event shall Cardinal analyses. All claims including those for negligence and any other PLEASE NOTE: Liability and Da Christian, Ilul @tetestech. be liable for incidental or co PAre Time H32 ntal damages, including without limitation, busi Fax #: State: under by i COM shall be dee Received By: Zip: waived unless made in writing and rec thet such claim is based upon any of the above ns, loss of use, or loss of profits incurred by client, its subsid act or tort, sha Attn: Company: Address: ved by Christian Ul within 30 days after completion of the applicable to the letra Tech paid by the client for the All Results are emailed. Please provide Email address: Verbal Result: TPH □ Yes BTEX × × x X × × Chbrides O No Add'l Phone #:

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

Relinquished By:

Date: Time:

Received By:

REMARKS:

Christian, Iluli a tetratich.com

Sampler - UPS - Bus - Other:

Corrected Temp. °C 4.5 Observed Temp. °C

Cool Intact Sample Condition

CHECKED BY:

Standard

Bacteria (only) Sample Condition

Cool Intact

Corrected Temp. °C Observed Temp. °C

(Initials)

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

Correction Factor -0.5°C Thermometer ID #113 Turnaround Time:

Delivered By: (Circle One)

Page 6 of 6

Page 104 of 161

City:

Address:

Project Manager: Company Name:

histian Conoco Phillips

P.O. #:

BILL TO

ANALYSIS

REQUEST

Phone #:



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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



TETRA TECH 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)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	95.4	% 69.9-14	0						
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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	91.7	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	97.5	% 69.9-14	0						
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	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	71.8	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	73.5	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	77.8	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	68.2	% 46.3-17	8						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	66.0	% 46.3-17	8						

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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)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	97.7	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	75.3	% 46.3-17	8						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	76.0	% 46.3-17	8						

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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)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	99.3	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	74.4	% 46.3-17	8						

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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	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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-NC
Total BTEX	0.746	0.300	09/18/2022	ND					GC-NC
Surrogate: 4-Bromofluorobenzene (PID	317 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	672	16.0	09/19/2022	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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 9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	278 9	% 46.3-17	8						

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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)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	125	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	133	% 46.3-17	8						

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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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	93.4	% 46.3-17	8						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	78.2	% 46.3-17	8						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	80.5	% 46.3-17	0						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	80.6	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	79.8	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	75.7	% 46.3-17	8						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	75.0	% 46.3-17	28						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	102	% 46.3-17	8						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	45.3-16	51						
Surrogate: 1-Chlorooctadecane	123 9	46.3-17	8						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	115 9	% 46.3-17	8						

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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)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	105	% 46.3-17	8						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	101 9	% 46.3-17	10						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	108	% 46.3-17	8						

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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	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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-NC
Total BTEX	0.942	0.300	09/18/2022	ND					GC-NC
Surrogate: 4-Bromofluorobenzene (PID	310 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	496	16.0	09/19/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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 9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	145 9	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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 9	45.3-16	1						
Surrogate: 1-Chlorooctadecane	120 9	46.3-17	8						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	122 9	% 46.3-17	0						

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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)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	107	% 46.3-17	8						

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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)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	98.3	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	101	% 46.3-17	8						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	115	% 46.3-17	8						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	111 9	46.3-17	8						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	108	% 46.3-17	8						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	110 9	% 46.3-17	8						

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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	Analyze	ed 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed 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	Analyze	ed 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	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	119	% 46.3-17	18						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	140 9	% 46.3-17	8						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	124 9	46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	99.9	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	107	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



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)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	96.4	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	88.2	% 46.3-17	0						

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Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	90.1	% 46.3-17	8						

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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)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	99.4	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	91.4	% 46.3-17	8						

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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)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	79.5	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



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)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	99.7	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	86.6	% 46.3-17	8						

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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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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released	to	Imaging:	12/6/2	022	2:54:22	PM
nereusen		Intra Strike	I MI OI M			A 17A

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

Ord East Marland, Hobbs, NM B4240 BILL TO FALL YS FRUE original Manager: Chr.ch. (con.) Chr.ch. (con.)
L TO Han Tech BN Lual Barrent Francisco DATE TIME TIME THE PH-3-23 1300 Sampling The provide the frame of the amount paid by the client for the disting after completion of the splicable disting after completion of the splicable disting after completion of the splicable disting after completion or otherwise. ED BY: Turmaround Time: All Results are emails All Results are emails Correction Factor 4.5°
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Page 150 of 161

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 5

101 East Marland, Hobbs, NM 88240 303 3476

(5/5) 393-2326 FAA (3/3) 333-2410	DIII I	ANALYSIS REQUEST
Company Name:	Course Phillips	BILL IU	
Project Manager:	Cherstian Unil	P.O. #	
Address:		Company: Tetre	Tech
City:	State:	Zip: Attn: Charstyan	
Phone #:	Fax #:	Address:	
	2/2C-MD-02743 Project Owner:	City:	
am	Jakes E Upper Bottera	State: Zip:	
on:	> County	Phone #:	
Sampler Name:	Ja Tile J.	Fax #:	
FOR LAB USE ONLY	0	MATRIX PRESERV.	
Lab I.D.	Sample I.D.	# CONTAINERS GROUNDWATER WASTEWATER OIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	TIME TPH BTEX
// //	BH-2 (2-3)	C 1 X X X 9-14-12	2 1005 X X X X
12			1010
2	(6-7)		
14	4 (9-10)		1090
51	BH-3 (6-1)		1030
16	(2-3)		1040
21	((-3)		104S
2	(0-10)		1050
8		A A A A A	
PLEASE NOTE: Liability and D analyses. All claims including t	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy analyses. All claims including those for negligence and any other cause whatsoever sha nalyses. All claims including those for locidential or consequential damages. Indi	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 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 application of the application. A state of the client of the 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 application of the application of the application of the application of the client for the client for consequential damages. Including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subaddinies,	it paid by the client for the safter completion of the applicable by client, its subsidiarities,
affiliates or successors arising of Relinquished By:	ans or successors arising out of or reliated to the performance of services hereunder slinguished By: J Time: Time:	nder by Cardinal, regardless of whether such claim is based upon any of the BOY's sume very verbal Res 22 Received By: 11 Autor All Results	All Results are emailed. Please provide Email address:
Relinquished By:	BIS Date:	Received By: Will Willowy	REMARKS:
Delivered By: (Circle One)	x	8.0	me: Standard 🕅 Bacteria (only) S Rush 🗌 Cool Intact #113
Sampler - UPS - Bus - Other:	us - Other: Corrected Temp. °C	1.4 1 Yes Yes No	Correction Factor -0.5°C

UNM-000 N 3.2 10/07/2

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	borator	ratories	S O F		10	HAIN-OF	-CUS	STODY	AND	ANALYS	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
101	1 East Marland, 575) 393-2326	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	240 476							210	lage o vi O
Company Name:		lins		BI	BILL TO				ANALYSIS	YSIS REQUEST	IEST
Project Manager:		Ululi		P.O. #:						_	
Address:	Chinatan	Con the		Company:	Tetra Te	lech					
City:		State:	Zip:	Attn: Chri	E	4				_	
Phone #:		Fax #:		Address:							
: 78C	MD-63793	Project Owner:	97	City:			_				
ame:	Janes EL	Inter Battaca		State:	Zip:						
n:	Len Counta	2		Phone #:				_		-	
Sampler Name:		-		Fax #:				_			
FOR LAB USE ONLY	Sec. 20		MATRIX	RIX PRESERV.	SAMPLING	NG		_		_	
Lab I.D.	Sample I.D.	e I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL	OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	DATE	TIME TPH	BTEX	Chbrides			
710000	RH-H	(2-2)		×	6-14-22	1105 X	×	X			
22	011	(4-5)			-	1110	-				
23		(6-7)				1115	+			-	
24	Ł	(9-10)				1120	-				
25	BH-5	(0-1)				1150					
34		(" \				1140					
36		(6-7)				1/45					
270		(9-10)				1150			-		
30	Anna Cardinal's Sahi	axclusive rem	edv for any claim arising whether based	in contract or tort, shall be limited to the	d to the amount paid t	IISS Int paid by the client for the	y V	4			
analyses. All claims including those for negligence and any other cause whatsoever service. In no event shall Cardinal be liable for incidental or consequental damages.	tose for negligence and any ral be liable for incidental or	other cause whatsoever shall I consequental damages, includ	ad waived unle ut limitation, t	n writing and received by Cardinal lerruptions, loss of use, or loss of r such claim is based upon any of r	profits incurred by clie the above stated reas	ompreuvir vir ure app nt, its subsidiaries, ons or otherwise.	An-calore				
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Received b	by	OCD:	10/24/2022	8:57:15 AM
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PLEASE NOTE: Liability and Damages. Cardin analyses. All claims including those for negligen service. In no event shall Cardinal be liable for in	PLEASE MOTE: Lability and Demages. Cardina's lability and client's exclusive removes that he deemed waived units enclusion of neurophysics and any other states which and the state of the application o	edy for any claim ansing whether descuin contrast or ion, same we shall be deemed waived unless made in writing and received by Ce including without limitation, business interruptions, loss of use, or fo	to (usit, strain or minimum using environm species of the and preceived by Cardinal within 30 days after completion of the a loss of use, or loss of profits incurred by client. Its subaliaries to be added and the advect attack reasons or otherwise	ompletion of the applicable nt, its subsidiaries,	
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Released to Imaging: 12/6/2022 2:54:22 PM

(Asimon Marilia	: Course Pro. #	Project Manager: Curve Address: Phone #: Project Name: Jac-HD-02 Project Location: Lec Sampler Name: Jours For USB USE ONLY FOR USB USE ONLY F	State: Zip: Fax #: Fax #: Fax #: Fax #: E Upper Bottlerg Tupper Bottlerg Min SH-7 (4-5) G I Min J (6-7) J G (G) RAB OR (C) OMP. Min J (6-7) J G (G) RAB OR (C) OMP. Min J (9-6) J J Kecontaineres SH-7 J G (G) RAB OR (C) OMP. Min J (9-7) J GROUNDWATER Min Soli GROUNDWATER X X X Date: Paternal damages, including whord unless male X X X Date: Paternal damages, including whord unless male Min X X Date: Received By: Min Min Min <th>P.O. #: P.O. #: Company: Techa Tech Attn: Christian Techa Address:: City: State: Zip: Phone #: Fax #: Fax #: Fax #: Fax #: Fax #: ACID/BASE: OTHER: ACID/BASE: OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL ACID/BASE: ICE / COOL ACID/BASE: ICE / COOL ISLUDGE ISLUGGE ISLU</th> <th>e: Rush addit Phone #</th>	P.O. #: P.O. #: Company: Techa Tech Attn: Christian Techa Address:: City: State: Zip: Phone #: Fax #: Fax #: Fax #: Fax #: Fax #: ACID/BASE: OTHER: ACID/BASE: OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL ACID/BASE: ICE / COOL ACID/BASE: ICE / COOL ISLUDGE ISLUGGE ISLU	e: Rush addit Phone #
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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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



TETRA TECH 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)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTEX	<0.300	0.300	09/27/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	101	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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

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EASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or bot, shall be limited to the amount paid by the client for the anyess. All claims including those for negligence and any other cause whatsoever shall be demuted waived unless made in writing and nealwed by Cardinal within 30 days after completion of the applicable nrice. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interuptions, loss of use, or loss of use, or loss of use, or loss of use, or loss of use or loss of the applicable filtaties or successors arising out of or related to the performance of services horeunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	ent's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the cause whateover shall be deemed waived unless made in writing and neowed by Cautinal within 30 days after competion of the a quental damages, including without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subaidiaries of services hereunder by Cautinal, regardless of whother such claim is based upon any of the above stated reasons or otherwork of services hereunder by Cautinal, regardless of whother such claim is based upon any of the above stated reasons or otherwork of services hereunder by Cautinal, regardless of whother such claim is based upon any of the above stated reasons or otherwork of services hereunder by Cautinal, regardless of whother such claim is based upon any of the above stated reasons or otherwork of services hereunder by Cautinal, regardless of whother such claim is based upon any of the above stated reasons or otherwork of services hereunder by Cautinal, regardless of whother such claim is based upon any of the above stated reasons or otherwork of services hereunder by Cautinal, regardless of whother such claim is based upon any of the above stated reasons or otherwork of services hereunder by Cautinal, regardless of whother such claim is based upon any of the above stated reasons or otherwork of services hereunder by Cautinal, regardless of the services and by the services of the	ther based in contract or loct, shall be limited to the amount paid by the client for the sex made in writing and neekwed by Cardinal within 30 days after completion of the applicable values interruptions, loss of use, or loss of profils incurred by client, its subalilative, of whether such climits is based upon any of the above stated reasons or otherwise.		1
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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 <u>no</u> 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>lb/acre</u>
5lbs/A
5lbs/A
Blbs/A
5lbs/A
2lbs/A
Llbs/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

Operator:	OGRID:
CONOCOPHILLIPS COMPANY	217817
600 W. Illinois Avenue	Action Number:
Midland, TX 79701	152886
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

	Created	Condition	Condition
	By		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