



April 26, 2022

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

**Re: Release Characterization and Remediation Work Plan  
ConocoPhillips  
MCA Battery 2 – Trunkline Release  
MCA Battery 2 – Flare Stack Release  
Unit Letter D, Section 28, Township 17 South, Range 32 East  
Lea County, New Mexico  
Incident ID# nAPP2131935400**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to assess multiple releases that occurred as the result of an equipment malfunction at the Maljamar Cooperative Agreement (MCA) Battery 2. The release footprint is located in Public Land Survey System (PLSS) Unit Letter D, Section 28, Township 17 South, Range 32 East, in Lea County, New Mexico (Site). There were two releases which occurred on the same day, with intersecting footprints. The approximate release point for the trunkline occurred at coordinates 32.812345°, -103.777239°, as shown on Figures 1 and 2.

## BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, the releases were discovered on November 1, 2021. Response to a release which occurred the day prior (10.31.21, NAPP2131933625) triggered these incidents. The C-141 documentation reports that the releases occurred due to an inlet valve on the south separator malfunctioning after Emergency Shutdown (ESD). The valve caused the trunkline to fail due to pressure build-up. The flare stack release occurred concurrent with the trunkline release, after the flare scrubber (two-phase separator) failed to function properly as a result of the ESD. The trunkline release point is located along the southern edge of the MCA Battery 2 pad. Approximately 69 barrels (bbls) of produced water and 17 bbls of crude oil were reported released. All freestanding fluids remaining after the release were removed by a vacuum truck. The NMOCD received the initial C-141 on November 15, 2021, and subsequently assigned the release the Incident ID nAPP2131935400. The initial C-141 form is included in Appendix A.

## SITE CHARACTERIZATION

A site characterization was performed and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.09 New Mexico Administrative Code (NMAC). The Site is in an area of low karst potential.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are eight (8) water wells located within an 800-meter (approximately ½-mile) radius of the release location. The average depth to groundwater is 85 feet below ground surface (bgs). The site characterization data is included in Appendix B.

Tetra Tech

901 West Wall St., Suite 100, Midland, TX 79701

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com

## REGULATORY FRAMEWORK

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

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

Constituent	Remediation RRAL
Chloride	10,000 mg/kg
TPH (GRO+DRO+ORO)	2,500 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 feet bgs) outside of active oil and gas operations are as follows:

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

## REGULATORY CORRESPONDENCE

On Thursday, March 3, 2022, Tetra Tech, on behalf of ConocoPhillips, requested a 60-day extension (for a new deadline of May 1, 2022) to complete the Site Characterization for the nAPP2131935400 release. The extension request was approved via email by Robert Hamlet on Thursday, March 3, 2022.

On Friday, February 4, 2022, a Request for Approval for delineation and initial remediation at the release site was sent to the Bureau of Land Management (BLM). The remedial action work was approved via email by Shelly Tucker of the BLM the same day. Documentation of associated regulatory correspondence is included in Appendix C.

## INITIAL RESPONSE ACTIVITIES

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 release extents consisted of approximately 3,500 square feet of oil-gas lease pad and roughly 22,000 square feet of pastureland.

Initial response remedial actions were performed at the release site between February and March 2022. Visually stained areas were scraped to removed impacted materials. Both on-pad and pastureland areas were scraped to approximately 3 to 6 inches below ground surface, resulting in approximately 320 cubic yards of contaminated soil being removed and sent to R360 Halfway Facility in Hobbs, New Mexico. Waste manifests can be found in Appendix D. The initial response area is indicated in Figure 3.

## SITE ASSESSMENT SUMMARY

During the initial response activity timeframe, Tetra Tech personnel were on-Site to conduct soil sampling to delineate the release extent. A total of thirty-two (32) boreholes were installed using a hand auger to achieve vertical and horizontal delineation of the trunkline release between February 18 and March 3, 2022.

Seven (7) boreholes (AH-T-1 through AH-T-7) were installed inside the reported trunkline release extent to depths ranging from 6 to 8 feet bgs to vertically delineate the release. Nine (9) boreholes (AH-T-8 through AH-T-16) were installed along the perimeter of the release extent to a depth of 2 feet bgs to achieve horizontal delineation of the trunkline release.

Five (5) boreholes (AH-22-1 through AH-22-5) were installed in and around an adjacent release which occurred the day before (NAPP2131933625) and were used as horizontal delineation of this release. Eleven (11) boreholes (AH-1 through AH-11) were installed in and around the flare stack release extent. Collected samples were field screened for salinity using an ExTech EC400 ExStik and for hydrocarbons using a photoionization detector (PID) to measure volatile organics. Photographic documentation of Site conditions at the time of the assessment is presented in Appendix E. Boring locations are presented in Figure 4.

A total of eight-five (85) samples were collected from the thirty-two (32) borings and submitted to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico to be analyzed for TPH (DRO and ORO) by EPA Method 8015, TPH Low Fraction (GRO) by EPA Method 8015D, BTEX by EPA Method 8260B, and chlorides by EPA Method 4500.0. A copy of the laboratory analytical reports and chain-of-custody documentation are included in Appendix F.

## SUMMARY OF SAMPLING RESULTS

Results from the February and March soil sampling events are summarized in Table 1. Analytical results associated with borings AH-1, AH-5, AH-8, AH-T-1 through AH-T-7, and AH-T-11 exceeded the reclamation requirements for chloride (600 mg/kg) and/or TPH (100 mg/kg) in soils to depths up to 4 feet below surrounding grade. All other analytical results were below reclamation requirements and Site RRALs. After review of analytical results from the sampling event, both horizontal and vertical delineation was achieved during the February and March 2022 assessment activities. Photographic documentation from the site assessment is included in Appendix E.

## REMEDIATION WORK PLAN

Based on the analytical results from the assessment, ConocoPhillips proposes to remove the impacted material within the release extent as shown in Figure 5. Impacted soils will be excavated using methods applicable for the Site. There are numerous energized subsurface, surface, and overhead lines in the release footprints. Where applicable, heavy equipment (backhoes and trackhoes) will be used to excavate to a maximum depth of 4 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation is below the reclamation requirements/Site RRALs. Heavy equipment will come no more than 4 feet from any pressurized lines. Impacted soils within the vicinity of the surface and subsurface lines which intersect the release footprint will be dug by hand to the maximum extent practicable.

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. Once analytical results are received, NMOCD will be notified, and the excavation will then be backfilled with clean material to surface grade. The estimated volume of material to be remediated is approximately 3,570 cubic yards.

## 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. Twenty-nine (29) confirmation floor samples and fifty-six (56) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 25,940 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 laboratory for analysis

Release Characterization and Remediation Work Plan  
April 26, 2022

ConocoPhillips

of TPH (Method 8015 modified), BTEX (Method 8260B), and chloride (USEPA Method 4500.0/300.0). Once results are received, NMOCD will be notified, and the excavation will then be backfilled with clean material to surface grade.

## SITE RECLAMATION AND RESTORATION PLAN

Post-remediation, the backfilled pasture areas will be seeded (in the next first favorable growing season) to aid in revegetation. Based on the soils at the site, the New Mexico State Land Office (NMSLO) Deep Sand (DS) Sites Seed Mixture 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 NMSLO 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 NMSLO seed mixture details and corresponding pounds pure live seed per acre are included in Appendix G. Final reclamation will create a landform that approximates and blends in with the surrounding landform, while controlling erosion.

## CONCLUSION

ConocoPhillips proposes to begin remediation activities at the Site within 120 days of NMOCD plan approval. 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) 560-9064 or Christian at (512) 338-2861.

Sincerely,  
**Tetra Tech, Inc.**



Christian M. Llull, P.G.  
Program Manager

cc:  
Ms. Jenni Fortunato, RMR – ConocoPhillips

## LIST OF ATTACHMENTS

### Figures:

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

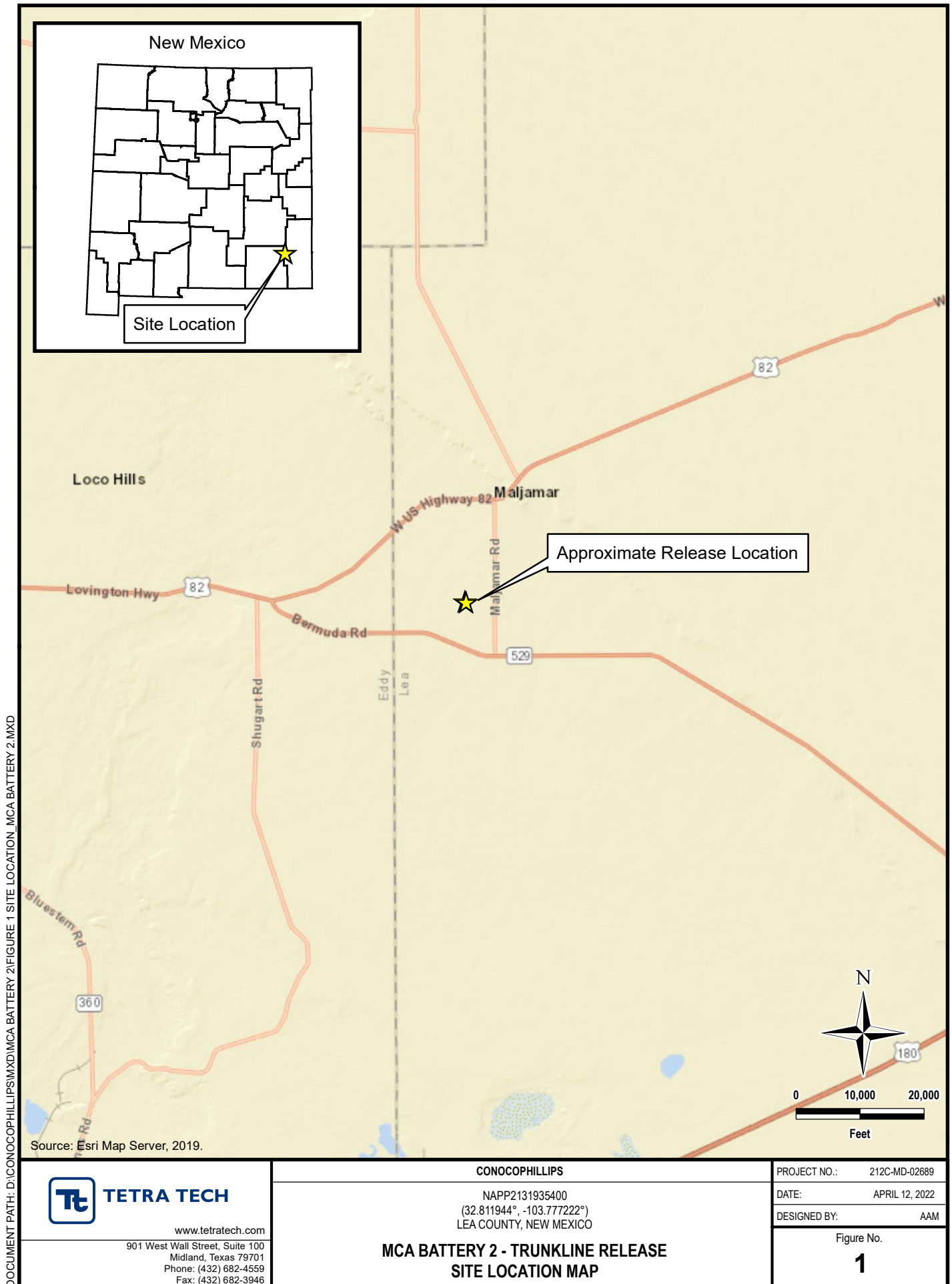
### Tables:

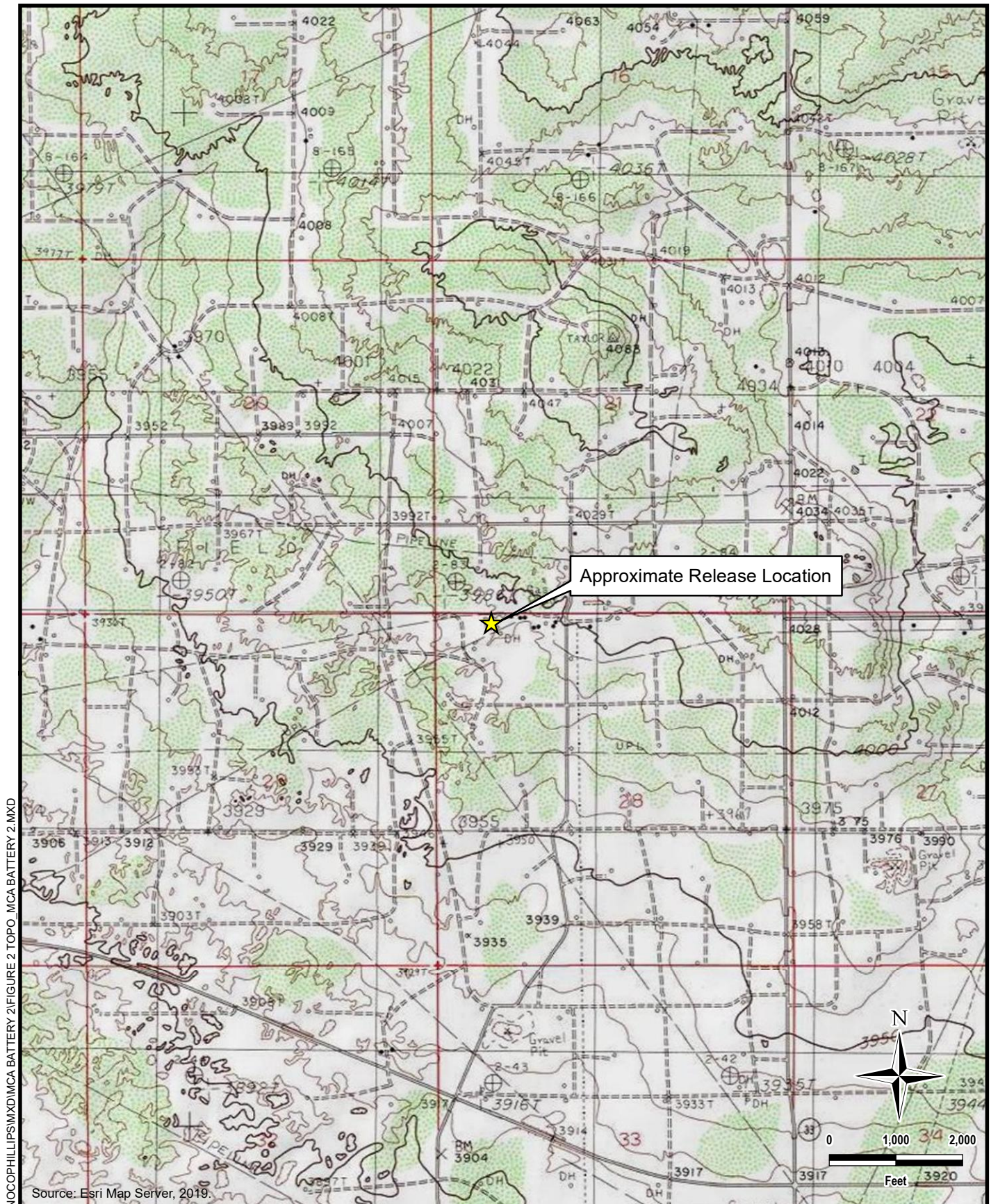
- Table 1 – Summary of Analytical Results – Soil Assessment

### Appendices:

- Appendix A – C-141 Forms
- Appendix B – Site Characterization Data
- Appendix C – Regulatory Correspondence
- Appendix D – Waste Manifests
- Appendix E – Photographic Documentation
- Appendix F – Laboratory Analytical Data
- Appendix G – NMSLO Seed Mixture Details

## **FIGURES**





DOCUMENT PATH: D:\CONOCOPHILLIPS\MCA BATTERY 2\FIGURE 2 TOPO\_MCA BATTERY 2.MXD


**TETRA TECH**
[www.tetrattech.com](http://www.tetrattech.com)

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

**CONOCOPHILLIPS**

 NAPP2131935400  
 (32.811944°, -103.777222°)  
 LEA COUNTY, NEW MEXICO

**MCA BATTERY 2 - TRUNKLINE RELEASE  
 TOPOGRAPHIC MAP**

PROJECT NO.: 212C-MD-02689

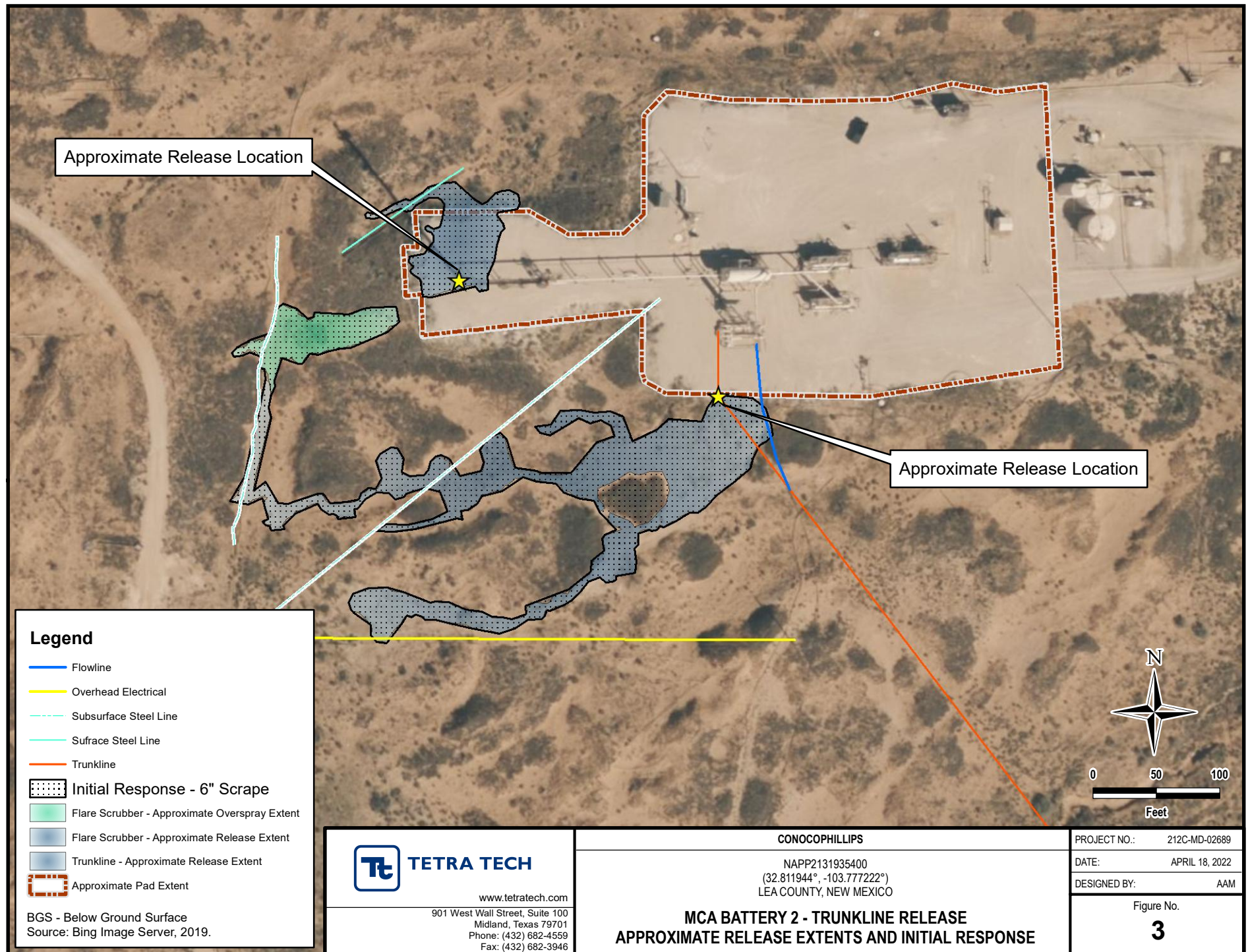
DATE: APRIL 18, 2022

DESIGNED BY: AAM

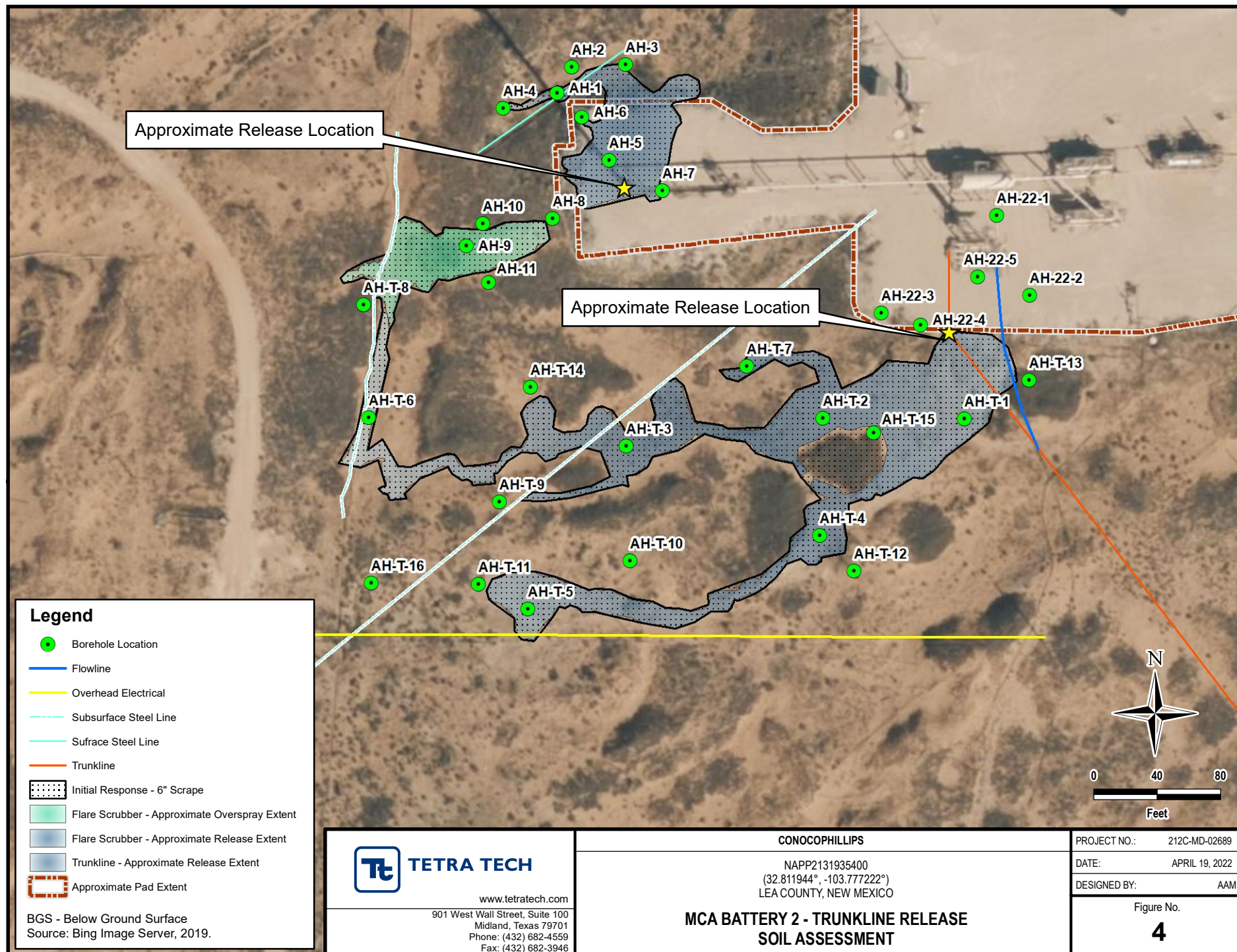
Figure No.

**2**

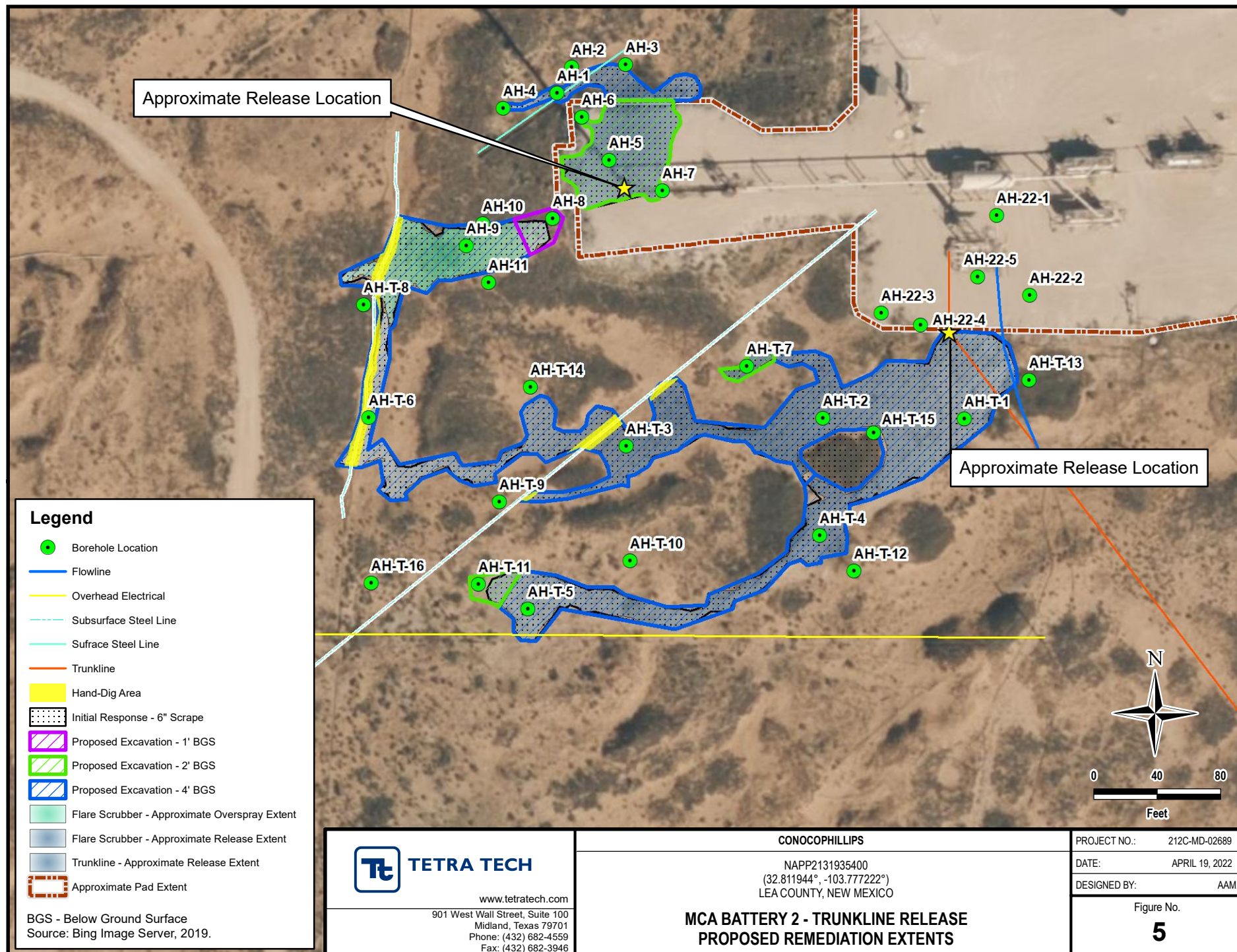
DOCUMENT PATH: D:\CONOCOPHILLIPS\WMD\MCA BATTERY 2\FIGURE 3 RELEASE\_MCA BATTERY 2.MXD



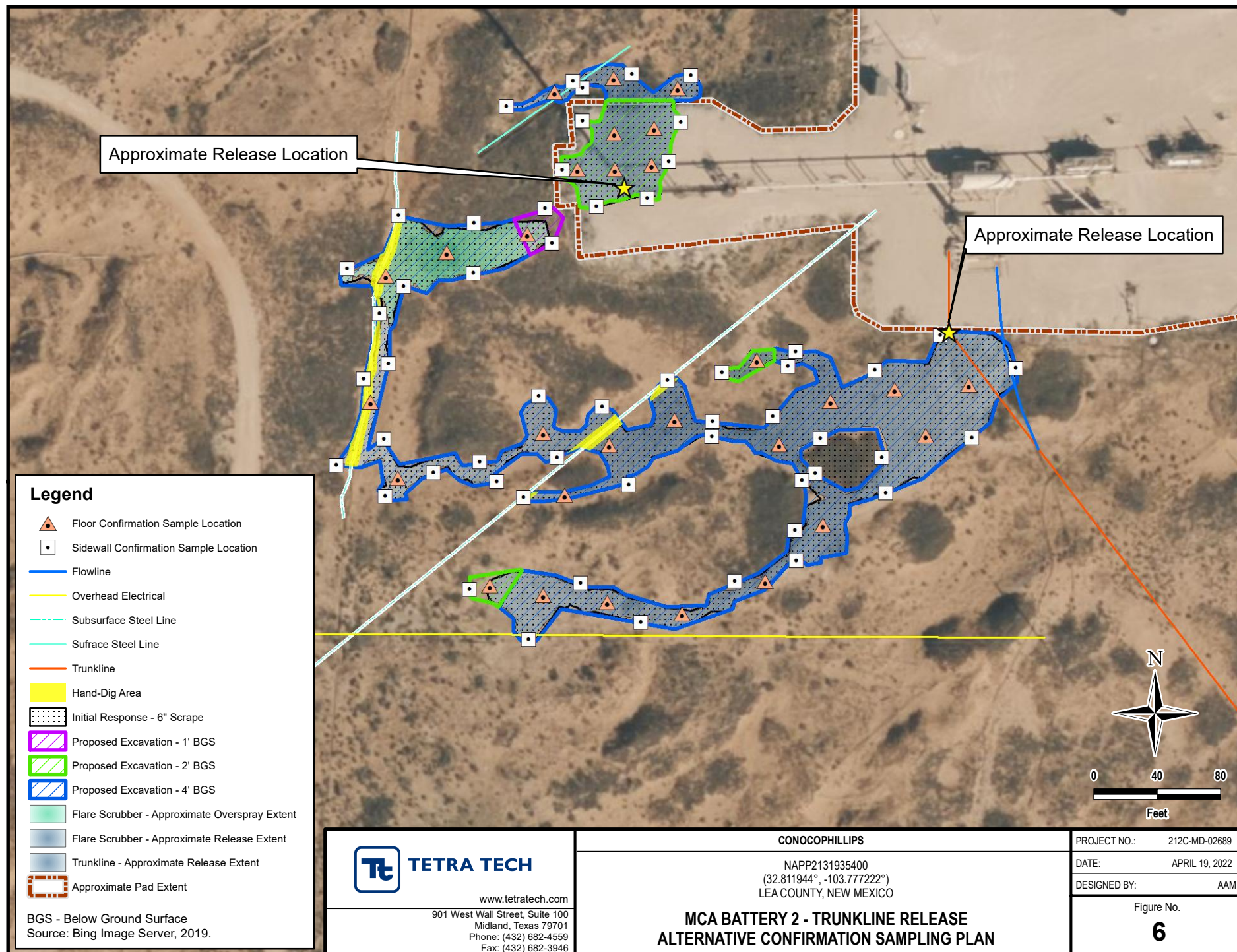
DOCUMENT PATH: D:\CONOCOPHILLIPS\MCA BATTERY 2\FIGURE 4 SOIL\_MCA BATTERY 2.MXD



DOCUMENT PATH: D:\CONOCOPHILLIPS\WMD\MCA BATTERY 2\FIGURE 5 REM \_MCA BATTERY 2.MXD



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\MCA BATTERY 2\FIGURE 6 ACSP\_MCA BATTERY 2.MXD



## **TABLES**

TABLE 1  
SUMMARY OF ANALYTICAL RESULTS  
SOIL ASSESSMENT - NAPP2131935400  
CONOCOPHILLIPS  
MCA BATTERY 2 - "14" TRUNKLINE RELEASE  
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride <sup>1</sup>		BTEX <sup>2</sup>										TPH <sup>3</sup>							
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
					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
		ft. bgs	ppm		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
AH-1	3/1/2022	0-1	39.0	-	64.0		< 0.200		2.28		10.8		22.0		35.1		477		2420		442		3,339	
		2-3	30.6	-	64.0		< 0.050		0.195		0.772		1.40		2.37		136		1490		345		1,971	
		3-4	116	-	96.0		< 0.050		< 0.050		0.090		0.199		< 0.300		15.6		260		29.8		305	
		5-6	342	-	192		< 0.050		< 0.050		0.069		0.228		< 0.300		23.2		357		49.7		430	
		7-8	366	-	208		< 0.050		< 0.050		0.190		0.638		0.828		43.7		502		85.7		631	
	3/9/2022	8-9		-	352		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		11-12		-	544		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-2	2/28/2022	0-1	31.4	-	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		1-2	28.9	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-3	2/28/2022	0-1	29.7	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		1-2	10.1	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		47.0		< 10.0		47.0	
AH-4	2/28/2022	0-1	19.5	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		1-2	27.0	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-5	3/1/2022	0-1	620	-	608		< 0.050		< 0.050		0.775		3.03		3.78		219		5020		2420		7,659	
		2-3	371	-	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		368		311		679	
		3-4	236	-	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		61		22.3		83.3	
AH-6	2/28/2022	0-1	116	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		1-2	14.9	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-7	2/28/2022	0-1	106	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		1-2	138	-	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-8	2/28/2022	0-1	833	-	1,820		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		1-2	129	-	176		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-9	3/2/2022	0-1	-	-	1,390		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		674		323		997	
		2-3	-	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		13.6		< 10.0		13.6	
		3-4	-	-	1,180		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		5-6	-	-	2,280		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		24.7		< 10.0		24.7	
		7-8	-	-	112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-10	3/1/2022	0-1	173	-	336		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-11	3/1/2022	0-1	263	-	304		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	

TABLE 1  
SUMMARY OF ANALYTICAL RESULTS  
SOIL ASSESSMENT - NAPP2131935400  
CONOCOPHILLIPS  
MCA BATTERY 2 - "14" TRUNKLINE RELEASE  
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride <sup>1</sup>		BTEX <sup>2</sup>										TPH <sup>3</sup>							
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
					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
AH-T-1	3/2/2022	0.5-1.5		-	2,720		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		14.7		215		30.9		261	
		2-3		-	2,800		<0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		3-4		-	3,280		<0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		24.1		< 10.0		24.1	
		5-6		-	4,160		<0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		56.5		< 10.0		56.5	
	3/9/2022	7-8		-	7,360		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		9-10		-	5,360		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-T-2	3/3/2022	0-1	-	-	2,120		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		2-3	-	-	2,400		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		3-4	-	-	3,160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		5-6	-	-	2,680		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		7-8	-	-	4,960		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-T-3	3/2/2022	0.5-1.5		-	1,980		< 0.050		< 0.050		0.114		< 0.150		< 0.300		20.5		158		18.4		197	
		2-3		-	2,800		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		107		< 10.0		107	
		3-4		-	544		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		11.6		118		14.7		144	
		5-6		-	464		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		21.9		< 10.0		21.9	
AH-T-4	3/2/2022	0.5-1.5		-	2,960		< 0.050		1.42		5.65		2.98		10.0		168		1320		616		2,104	
		2-3		-	368		< 0.050		< 0.050		0.168		< 0.150		0.311		11.8		262		112		386	
		3-4		-	320		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		51.2		13.7		64.9	
		5-6		-	1,860		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		30.9		< 10.0		30.9	
AH-T-5	3/3/2022	0.5-1.5		-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		2-3		-	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		404		202		606	
		3-4		-	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		357		1640		219		2,216	
	3/9/2022	5-6		-	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		7-8		-	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-T-6	3/3/2022	0.5-1.5	-	-	2,760		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		262		175		437	
		2-3	-	-	2,880		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		3-4	-	-	6,160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
	3/9/2022	5-6		-	4,080		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		26.4		< 10.0		26.4	
		7-8		-	2,140		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-T-7	3/2/2022	0.5-1.5		-	624		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		131		104		235	
		2-3		-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		11.6		11.6	
		3-4		-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		5-6		-	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-T-8	3/1/2022	0-1	181	-	288		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		26.8		< 10.0		26.8	
		1-2	24.2	-	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-T-9	3/1/2022	0-1	19.2	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		1-2	20.4	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-T-10	3/2/2022	0-1	42.6	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		1-2	13.4	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-T-11	3/1/2022	0-1	33.3	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		116		139		255	
		1-2	11.1	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		117		162		279	

TABLE 1  
SUMMARY OF ANALYTICAL RESULTS  
SOIL ASSESSMENT - NAPP2131935400  
CONOCOPHILLIPS  
MCA BATTERY 2 - "14" TRUNKLINE RELEASE  
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride <sup>1</sup>		BTEX <sup>2</sup>										TPH <sup>3</sup>						
							Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH
			Chloride	PID			mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C <sub>6</sub> - C <sub>10</sub>		> C <sub>10</sub> - C <sub>28</sub>		> C <sub>28</sub> - C <sub>36</sub>		(GRO+DRO+EXT DRO)
		ft. bgs	ppm		mg/kg	Q											mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
AH-T-12	3/2/2022	0-1	10.9	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		1-2	7.80	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-T-13	3/1/2022	0-1	20.6	-	<16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		1-2	8.40	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-T-14	3/1/2022	0-1	20.2	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		1-2	5.50	-	<16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-T-15	3/2/2022	0-1	14.1	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		1-2	32.8	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-T-16	3/9/2022	0-1		-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		1-2		-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-

TABLE 1  
SUMMARY OF ANALYTICAL RESULTS  
SOIL ASSESSMENT - NAPP2131935400  
CONOCOPHILLIPS  
MCA BATTERY 2 - "14" TRUNKLINE RELEASE  
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride <sup>1</sup>		BTEX <sup>2</sup>										TPH <sup>3</sup>						
							Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH
			Chloride	PID			mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C <sub>6</sub> - C <sub>10</sub>		> C <sub>10</sub> - C <sub>28</sub>		> C <sub>28</sub> - C <sub>36</sub>		(GRO+DRO+EXT DRO)
		ft. bgs	ppm		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
AH-22-1	3/1/2022	0-1	184	-	128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		1-2	169	-	144		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		12.6		< 10.0		12.6
AH-22-2	3/1/2022	0-1	26.7	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		1-2	18.9	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-22-3	3/1/2022	0-1	461	-	<b>832</b>		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		1-2	123	-	256		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-22-4	3/3/2022	0.5-1.5	-	-	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		2-3	-	-	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		3-4	-	-	<b>1,720</b>		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		5-6	-	-	352		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-22-5	3/3/2022	0.5-1.5	-	-	320		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		2-3	-	-	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		3-4	-	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		5-6	-	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		7-8	-	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500CI-B

2 Method 8021B

3 Method 8015M

***Bold and italicized values indicate exceedance of proposed Remediation RRALs and Reclamation Requirements.***

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

## **APPENDIX A C-141 Forms**

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

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

### Location of Release Source

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

### Initial Response

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

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name _____	Title: _____
Signature: <u>Patricia Espinoza</u>	Date: _____
email: _____	Telephone: _____
<b><u>OCD Only</u></b>	
Received by: _____	Date: _____

# L48 Spill Volume Estimate Form

Received by OCD: 4/26/2022 4:39:03 PM

Page 21 of 190

Facility Name & Number:	MCA Batter 2 Trunk Line
Asset Area:	Malajamr
Release Discovery Date & Time:	6:42 A.M. 11/01/21
Release Type:	Oil Mixture
Provide any known details about the event:	2C Trunk line failure at the Battery 2 due to inlet seperator ESD

## Spill Calculation - Subsurface Spill - Rectangle

Was the release on pad or off-pad?	See reference table below
Has it rained at least a half inch in the last 24 hours?	See reference table below

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	198.0	15.0	4.00	15.32%	176.220	26.997	20.00%	5.399	21.598
Rectangle B	31.0	97.0	4.00	15.32%	178.415	27.333	20.00%	5.467	21.867
Rectangle C	115.0	30.0	2.00	15.32%	102.350	15.680	20.00%	3.136	12.544
Rectangle D	245.0	20.0	4.00	15.32%	290.733	44.540	20.00%	8.908	35.632
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
Rectangle J					0.000	0.000		0.000	0.000
Total Volume Release:						114.550		22.910	91.640

Released to Imaging: 5/20/2022 10:30:33 AM

Incident ID	NAPP2131935400
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?	81 _____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

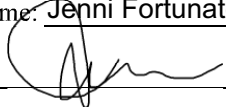
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods,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

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	NAPP2131935400
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Jenni Fortunato Title: Program Manager, Remediation  
Signature:  Date: 04/26/22  
email: jenni.fortunato@cop.com Telephone: 832-486-2477

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	NAPP2131935400
District RP	
Facility ID	
Application ID	

## Remediation Plan

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

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Jenni FortunatoTitle: Program Manager, RemediationSignature: Date: 04/26/22email: jenni.fortunato@cop.comTelephone: 8324862477**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature: Date: 05/20/2022

## **APPENDIX B**

### **Site Characterization Data**



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">RA 10175</a>		RA	LE	2	1	28	17S	32E		614814	3631005*	<input type="checkbox"/>	371	158	
<a href="#">RA 12020 POD1</a>		RA	LE	2	2	1	28	17S	32E	614828	3630954	<input type="checkbox"/>	405	120	81 39
<a href="#">RA 12042 POD1</a>		RA	LE	2	2	1	28	17S	32E	614891	3631181	<input type="checkbox"/>	422	400	
<a href="#">RA 12522 POD1</a>		RA	LE	3	3	4	21	17S	32E	614941	3631122	<input type="checkbox"/>	471	100	
<a href="#">RA 12522 POD2</a>		RA	LE	2	2	1	28	17S	32E	614949	3631098	<input type="checkbox"/>	481	100	
<a href="#">RA 12522 POD3</a>		RA	LE	4	4	3	28	17S	32E	614980	3631093	<input type="checkbox"/>	513	100	
<a href="#">RA 12521 POD1</a>		RA	LE	3	3	4	21	17S	32E	615127	3631271	<input type="checkbox"/>	668	105	92 13
<a href="#">RA 12020 POD3</a>		RA	LE	2	1	2	28	17S	32E	615152	3631019	<input type="checkbox"/>	693	112	83 29

Average Depth to Water: **85 feet**

Minimum Depth: **81 feet**

Maximum Depth: **92 feet**

**Record Count:** 8

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 614470

**Northing (Y):** 3631145

**Radius:** 800

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

2/16/22 3:32 PM

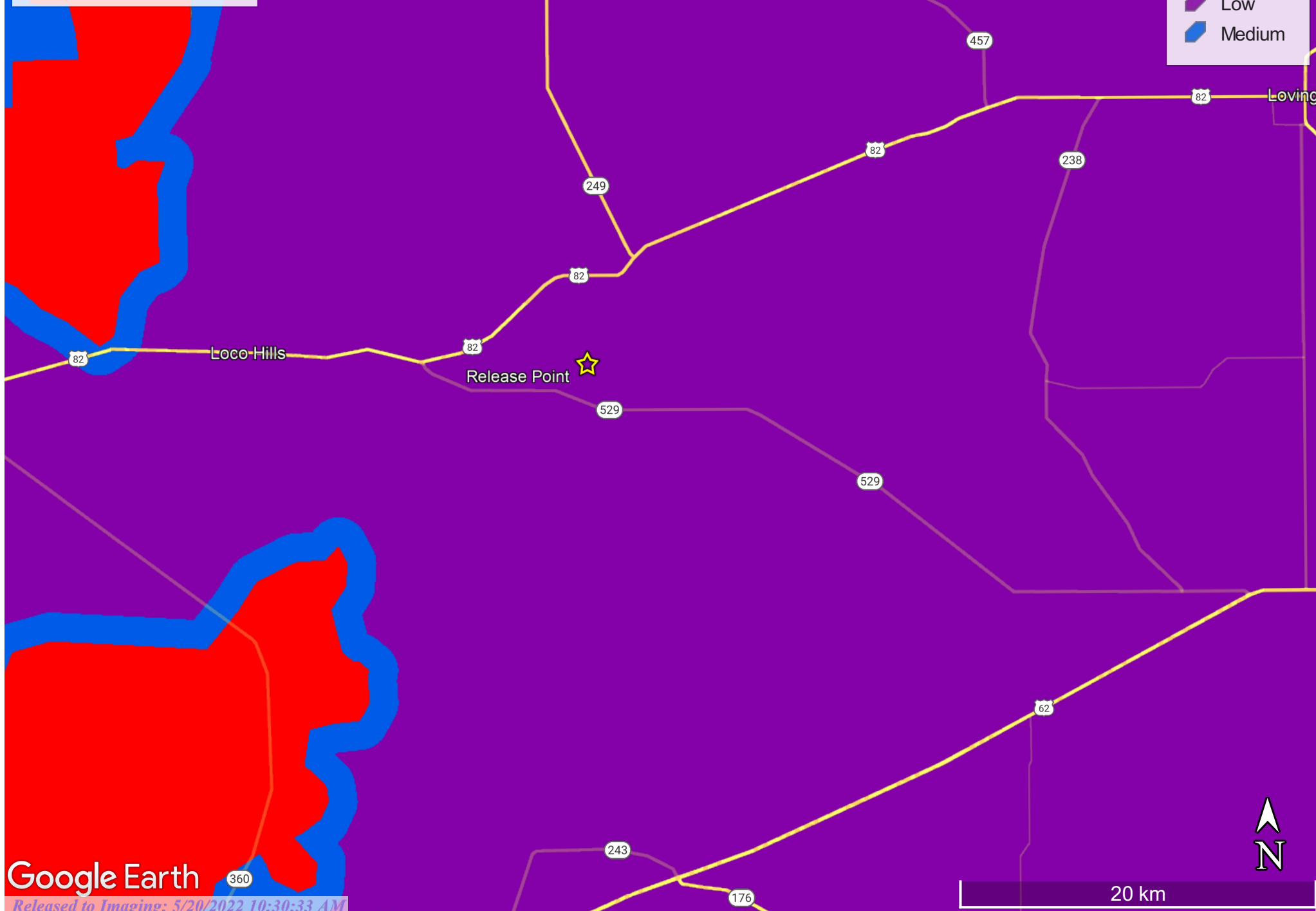
WATER COLUMN/ AVERAGE DEPTH TO WATER

# MCA Battery 2

Karst Potential Map

## Legend






- High
- Low
- Medium

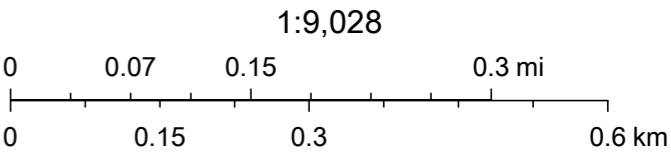


# OCD Water Bodies Map



2/16/2022, 4:28:13 PM

-   
Override 1
-  OCD District Offices
-  PLJV Probable Playas
-  OSE Water-bodies
-  OSE Streams



Esri, HERE, Garmin, GeoTechnologies, Inc., OCD, Maxar

## **APPENDIX C**

### **Regulatory Correspondence**

**Poole, Nicholas**

---

**From:** Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>  
**Sent:** Thursday, March 3, 2022 9:45 AM  
**To:** Llull, Christian  
**Cc:** Poole, Nicholas; Abbott, Sam; Fortunato, Jenni; Bratcher, Mike, EMNRD; Hensley, Chad, EMNRD; Velez, Nelson, EMNRD; Nobui, Jennifer, EMNRD  
**Subject:** (Extension Approval) - NAPP2131935400 (MCA Battery 2 Trunk line)

**⚠ CAUTION:** This email originated from an external sender. Verify the source before opening links or attachments. **⚠**

RE: Incident #NAPP2131935400

Christian,

Your request for an extension to **May 1st, 2022** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
811 S. First Street | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Llull, Christian <Christian.Llull@tetrattech.com>  
**Sent:** Thursday, March 3, 2022 7:25 AM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>  
**Cc:** Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Poole, Nicholas <NICHOLAS.POOLE@tetrattech.com>; Abbott, Sam <Sam.Abbott@tetrattech.com>; Fortunato, Jenni <jenni.fortunato@conocophillips.com>  
**Subject:** [EXTERNAL] Extension Request - NAPP2131935400 (MCA Battery 2 Trunk line)

**CAUTION:** This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To whom it may concern:

On behalf of ConocoPhillips, Tetra Tech is requesting a 60-day extension (until May 1, 2022) to complete release characterization and associated reporting for the MCA 2 Battery Trunk Line Release incident (**NAPP2131935400**).

Please let me know if you have any questions or concerns.

Christian

**Christian Llull, P.G.** | Program Manager

Direct +1 (512) 338-2861 | Business +1 (512) 338-1667 | Fax +1 (512) 338-1331 | [christian.llull@tetrattech.com](mailto:christian.llull@tetrattech.com)

**Tetra Tech** | *Leading with Science*® | OGA

8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | [tetrattech.com](http://tetrattech.com)

*This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.*



Please consider the environment before printing. [Read more](#)



**TETRA TECH**

**From:** [Tucker, Shelly J](#)  
**To:** [Llull, Christian](#); [Arias, Arthur A](#)  
**Cc:** [Fortunato, Jenni](#); [Richards, Andrew R](#)  
**Subject:** Re: [EXTERNAL] Request for Approval - Remediation (NAPP2131935400)  
**Date:** Friday, February 04, 2022 1:20:02 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)  
[image006.png](#)

**CAUTION:** This email originated from an external sender. Verify the source before opening links or attachments.

I verified with our Arch team this area has been cleared. The BLM hereby grants approval to begin delineation and remediation work for this release.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

*Shelly J Tucker*

Environmental Protection Specialist  
Realty

Bureau of Land Management  
620 E. Greene St  
Carlsbad, NM 88220

575.234.5706 - Direct  
575.200.0614

[stucker@blm.gov](mailto:stucker@blm.gov)

---

**From:** Llull, Christian <Christian.Llull@tetrattech.com>  
**Sent:** Friday, February 4, 2022 9:51 AM  
**To:** Arias, Arthur A <aaarias@blm.gov>; Tucker, Shelly J <stucker@blm.gov>  
**Cc:** Fortunato, Jenni <Jenni.Fortunato@conocophillips.com>; Richards, Andrew R <Andrew.R.Richards@conocophillips.com>  
**Subject:** [EXTERNAL] Request for Approval - Remediation (NAPP2131935400)

**This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.**

Art, Shelly:

Good afternoon. I write on behalf of ConocoPhillips.

Tetra Tech is assisting with assessment and remediation of a previously reported unplanned release with the NMOCD.

In order to complete the initial remediation and the submittal process we are requesting verbal approval to proceed with further cleanup at the locations listed below. We are uncertain if this area has been cleared for archaeology.

Aerial image is attached and show the locations to be scraped/remediated.

Please let me know if you require any other permitting or compliance items in addition to this email approval before we begin work.

**Name of Release:** MCA Battery 2 - 14" Trunk line Release and Flare Scrubber (11/1)

**Incident Identification (ID)** NAPP2131935400

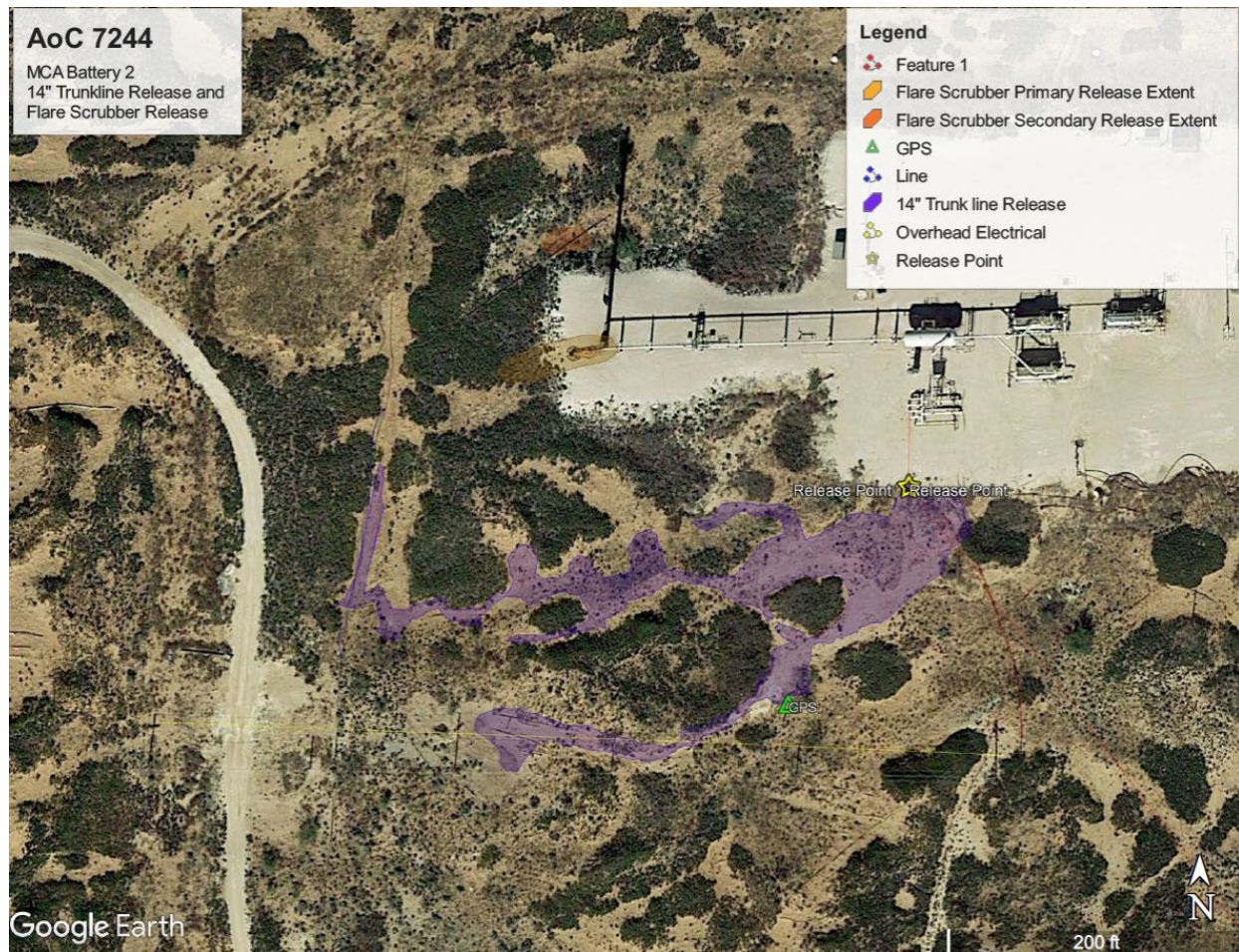
**Lea County, NM**

**Approximate Release Location(s):** 32.811944°, -103.777500°

**Date Release Discovered:** 11/1/2021

**The release reportedly consisted of 17.2 barrels (bbls) of crude oil, of which 0 bbls were recovered and 68.9 barrels (bbls) of produced water, of which 0 bbls were recovered.**

**The observed impacted area in the field is approximately 18,00 square feet; Predominant remediation with hand shovels given the sheer number of buried flowlines in the area. Mini-excavator where applicable.**



Please let me know at your earliest convenience that we can proceed.  
Thank you very much for your time on this request.

Christian  
512-565-0190

**Christian Llull, P.G.** | Program Manager  
Direct +1 (512) 338-2861 | Business +1 (512) 338-1667 | Fax +1 (512) 338-1331 | [christian.llull@tetratech.com](mailto:christian.llull@tetratech.com)

**Tetra Tech** | *Leading with Science*® | OGA  
8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | [tetratech.com](http://tetratech.com)

This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.

    Please consider the environment before printing. [Read more](#)



## **APPENDIX D**

### **Waste Manifests**



Permian Basin

Customer: CONOCOPHILLIPS  
 Customer #: CRI2190  
 Ordered by: RAY GARCIA  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 2/21/2022  
 Hauler: MCNABB PARTNERS  
 Driver: HUGO  
 Truck # M31  
 Card #  
 Job Ref #

Ticket #: 700-1277262  
 Bid #: O6UJ9A000HH0  
 Date: 2/21/2022  
 Generator: CONOCOPHILLIPS  
 Generator #:  
 Well Ser. #: 999908  
 Well Name: MCA BATTERY  
 Well #: 2  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

48.00 yards

16.00

## Generator Certification Statement of Waste Status

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

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

Driver/ Agent Signature

R360 Representative Signature

*Hugo M31*

*[Signature]*

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



Permian Basin

Customer: CONOCOPHILLIPS  
 Customer #: CRI2190  
 Ordered by: RAY GARCIA  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 2/22/2022  
 Hauler: MCNABB PARTNERS  
 Driver: GUMER  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1277584  
 Bid #: O6UJ9A000HH0  
 Date: 2/22/2022  
 Generator: CONOCOPHILLIPS  
 Generator #:  
 Well Ser. #: 999908  
 Well Name: MCA BATTERY  
 Well #: 2  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

16.00 yards

## Generator Certification Statement of Waste Status

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

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

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



Customer: CONOCOPHILLIPS  
 Customer #: CRI2190  
 Ordered by: RAY GARCA  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 2/23/2022  
 Hauler: MCNABB PARTNERS  
 Driver: DANIEL  
 Truck #: M02  
 Card #  
 Job Ref #

Ticket #: 700-1277880  
 Bid #: O6UJ9A000HH0  
 Date: 2/23/2022  
 Generator: CONOCOPHILLIPS  
 Generator #:  
 Well Ser. #: 999908  
 Well Name: MCA BATTERY  
 Well #: 2  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County

Permian Basin

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

10.00 yards

**Generator Certification Statement of Waste Status**

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

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

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



Customer: CONOCOPHILLIPS  
 Customer #: CRI2190  
 Ordered by: RAY GARZA  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 2/24/2022  
 Hauler: MCNABB PARTNERS  
 Driver: GUMER  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1278236  
 Bid #: O6UJ9A000HH0  
 Date: 2/24/2022  
 Generator: CONOCOPHILLIPS  
 Generator #:  
 Well Ser. #: 999908  
 Well Name: MCA BATTERY  
 Well #: 2  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County

Permian Basin

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	16.00 yards

**Generator Certification Statement of Waste Status**

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

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

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

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



Permian Basin

Customer: CONOCOPHILLIPS  
 Customer #: CRI2190  
 Ordered by: BUCKY MOORE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 2/25/2022  
 Hauler: MCNABB PARTNERS  
 Driver: GUMER  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1278601  
 Bid #: O6UJ9A000HH0  
 Date: 2/25/2022  
 Generator: CONOCOPHILLIPS  
 Generator #:  
 Well Ser. #: 999908  
 Well Name: MCA BATTERY  
 Well #: 2  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards  
 18.00

## Generator Certification Statement of Waste Status

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

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

## Driver/ Agent Signature

## R360 Representative Signature

## Customer Approval

THIS IS NOT AN INVOICE!

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



Permian Basin

Customer: CONOCOPHILLIPS  
 Customer #: CRI2190  
 Ordered by: RAY GARZA  
 AFE #:   
 PO #:   
 Manifest #: N/A  
 Manif. Date: 2/28/2022  
 Hauler: MCNABB PARTNERS  
 Driver: GUMER  
 Truck #: M32  
 Card #:   
 Job Ref #:

Ticket #: 700-1279312  
 Bid #: O6UJ9A000HH0  
 Date: 2/28/2022  
 Generator: CONOCOPHILLIPS  
 Generator #:   
 Well Ser. #: 999908  
 Well Name: MCA BATTERY  
 Well #: 2  
 Field:   
 Field #:   
 Rig: NON-DRILLING  
 County:

Facility: CRI

**Product / Service****Quantity Units**

Contaminated Soil (RCRA Exempt)

16.00 yards

**Generator Certification Statement of Waste Status**

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

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

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

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

t6UJ9A01MN3N

3/1/2022 12:14:53PM

Customer: CONOCOPHILLIPS

Ticket #: 700-1279312

Customer #: CRI2190

Bid #: O6UJ9A000HH0

Ordered by: RAY GARZA

Date: 2/28/2022

AFE #:

Generator: CONOCOPHILLIPS

PO #:

Generator #:

Manifest #: N/A

Well Ser. #: 999908

Manif. Date: 2/28/2022

Well Name: MCA BATTERY

Hauler: MCNABB PARTNERS

Well #: 2

Driver: GUMER

Field:

Truck #: M32

Field #:

Card #

Rig: NON-DRILLING

Job Ref #

County



Permian Basin

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

16.00

## Generator Certification Statement of Waste Status

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

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

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



Permian Basin

Customer: CONOCOPHILLIPS  
 Customer #: CRI2190  
 Ordered by: COLTON MOORE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 2/28/2022  
 Hauler: MCNABB PARTNERS  
 Driver: GUMER  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1279194  
 Bid #: O6UJ9A000HH0  
 Date: 2/28/2022  
 Generator: CONOCOPHILLIPS  
 Generator #:  
 Well Ser. #: 999908  
 Well Name: MCA BATTERY  
 Well #: 2  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

16.00

## Generator Certification Statement of Waste Status

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

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

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



Permian Basin

Customer: CONOCOPHILLIPS  
 Customer #: CRI2190  
 Ordered by: COLTON MOORE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 2/28/2022  
 Hauler: MCNABB PARTNERS  
 Driver: GUMER  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1279194  
 Bid #: O6UJ9A000HH0  
 Date: 2/28/2022  
 Generator: CONOCOPHILLIPS  
 Generator #:  
 Well Ser. #: 999908  
 Well Name: MCA BATTERY  
 Well #: 2  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County

Facility: CRI

**Product / Service****Quantity Units**

Contaminated Soil (RCRA Exempt)

18.00 yards

**Generator Certification Statement of Waste Status**

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

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

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

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



Permian Basin

Customer: CONOCOPHILLIPS  
 Customer #: CRI2190  
 Ordered by: COLTON BICKERSTAFF  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 3/1/2022  
 Hauler: MCNABB PARTNERS  
 Driver: GUMER  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1279546  
 Bid #: O6UJ9A000HH0  
 Date: 3/1/2022  
 Generator: CONOCOPHILLIPS  
 Generator #:  
 Well Ser. #: 999908  
 Well Name: MCA BATTERY  
 Well #: 2  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County

Facility: CRI

Product / Service	Quantity Units
-------------------	----------------

Contaminated Soil (RCRA Exempt)	<del>18.00</del> yards 16.00
---------------------------------	---------------------------------

**Generator Certification Statement of Waste Status**

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

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

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

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



Permian Basin

Customer: CONOCOPHILLIPS  
 Customer #: CRI2190  
 Ordered by: COLTON BICKERSTAFF  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 3/1/2022  
 Hauler: MCNABB PARTNERS  
 Driver: GUMER  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1279699  
 Bid #: O6UJ9A000HH0  
 Date: 3/1/2022  
 Generator: CONOCOPHILLIPS  
 Generator #:  
 Well Ser. #: 999908  
 Well Name: MCA BATTERY  
 Well #: 2  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County

Facility: CRI

Product / Service	Quantity Units
-------------------	----------------

Contaminated Soil (RCRA Exempt)	<del>18.00</del> yards 16.00
---------------------------------	---------------------------------

**Generator Certification Statement of Waste Status**

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

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

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



Permian Basin

Customer: CONOCOPHILLIPS  
Customer #: CRI2190  
Ordered by: COLTON RICKWOOD  
AFE #:  
PO #:  
Manifest #: NA  
Manif. Date: 3/2/2022  
Hauler: MCNABB PARTNERS  
Driver: GUMER  
Truck #: M32  
Card #  
Job Ref #

Ticket #: 700-1280034  
Bid #: O6UJ9A000HH0  
Date: 3/2/2022  
Generator: CONOCOPHILLIPS  
Generator #:  
Well Ser. #: 999908  
Well Name: MCA BATTERY  
Well #: 2  
Field:  
Field #:  
Rig: NON-DRILLING  
County

Facility: CRI

Product / Service	Quantity Units
-------------------	----------------

Contaminated Soil (RCRA Exempt)	<del>18.00</del> yards 16.00
---------------------------------	---------------------------------

**Generator Certification Statement of Waste Status**

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

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

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

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

A handwritten signature in black ink, appearing to be a stylized 'J' or 'L' followed by a flourish.



Permian Basin

Customer: CONOCOPHILLIPS  
 Customer #: CRI2190  
 Ordered by: JENNI FORTUNATO  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 3/3/2022  
 Hauler: MCNABB PARTNERS  
 Driver: GUMER  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1280411  
 Bid #: O6UJ9A000HH0  
 Date: 3/3/2022  
 Generator: CONOCOPHILLIPS  
 Generator #:  
 Well Ser. #: 999908  
 Well Name: MCA BATTERY  
 Well #: 2  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

16.00 yards

**Generator Certification Statement of Waste Status**

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

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

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



Permian Basin

Customer: CONOCOPHILLIPS  
Customer #: CRI2190  
Ordered by: JENNI FORTUNATO  
AFE #:  
PO #:  
Manifest #: N/A  
Manif. Date: 3/4/2022  
Hauler: MCNABB PARTNERS  
Driver: GUMER  
Truck #: M32  
Card #  
Job Ref #

Ticket #: 700-1280777  
Bid #: O6UJ9A000HH0  
Date: 3/4/2022  
Generator: CONOCOPHILLIPS  
Generator #:  
Well Ser. #: 999908  
Well Name: MCA BATTERY  
Well #: 2  
Field:  
Field #:  
Rig: NON-DRILLING  
County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

~~18.00 yards~~ 16**Generator Certification Statement of Waste Status**

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

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

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



Permian Basin

Customer: CONOCOPHILLIPS  
Customer #: CRI2190  
Ordered by: BUCKY MOORE  
AFE #:  
PO #:  
Manifest #: 005  
Manif. Date: 3/7/2022  
Hauler: MCNABB PARTNERS  
Driver: GUMER  
Truck #: M32  
Card #  
Job Ref #

Ticket #: 700-1281551  
Bid #: O6UJ9A000HH0  
Date: 3/7/2022  
Generator: CONOCOPHILLIPS  
Generator #:  
Well Ser. #: 999908  
Well Name: MCA BATTERY  
Well #: 2  
Field:  
Field #:  
Rig: NON-DRILLING  
County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

16.00 yards

**Generator Certification Statement of Waste Status**

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

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

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

6UJ9A01MRLV

3/8/2022 9:28:38AM



Permian Basin

Customer: CONOCOPHILLIPS  
 Customer #: CRI2190  
 Ordered by: BUCKY MOORE  
 AFE #:  
 PO #:  
 Manifest #: 005  
 Manif. Date: 3/7/2022  
 Hauler: MCNABB PARTNERS  
 Driver: GUMER  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1281551  
 Bid #: O6UJ9A000HH0  
 Date: 3/7/2022  
 Generator: CONOCOPHILLIPS  
 Generator #:  
 Well Ser. #: 999908  
 Well Name: MCA BATTERY  
 Well #: 2  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

16

**Generator Certification Statement of Waste Status**

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

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

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



Customer: CONOCOPHILLIPS  
 Customer #: CRI2190  
 Ordered by: BUCKY MOORE  
 AFE #:   
 PO #:   
 Manifest #: 004  
 Manif. Date: 3/7/2022  
 Hauler: MCNABB PARTNERS  
 Driver: GUMER  
 Truck #: M32  
 Card #:   
 Job Ref #:

Ticket #: 700-1281393  
 Bid #: O6UJ9A000HH0  
 Date: 3/7/2022  
 Generator: CONOCOPHILLIPS  
 Generator #:   
 Well Ser. #: 999908  
 Well Name: MCA BATTERY  
 Well #: 2  
 Field:   
 Field #:   
 Rig: NON-DRILLING  
 County:

Permian Basin

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

16

**Generator Certification Statement of Waste Status**

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

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

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



Permian Basin

Customer: CONOCOPHILLIPS  
Customer #: CRI2190  
Ordered by: BUCKY MOORE  
AFE #:  
PO #:  
Manifest #: 004  
Manif. Date: 3/7/2022  
Hauler: MCNABB PARTNERS  
Driver: GUMER  
Truck #: M32  
Card #  
Job Ref #

Ticket #: 700-1281393  
Bid #: O6UJ9A000HH0  
Date: 3/7/2022  
Generator: CONOCOPHILLIPS  
Generator #:  
Well Ser. #: 999908  
Well Name: MCA BATTERY  
Well #: 2  
Field:  
Field #:  
Rig: NON-DRILLING  
County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

16.00 yards

**Generator Certification Statement of Waste Status**

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

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

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

KJUISA01MRCG

3/8/2022 9:24:16AM



Permian Basin

Customer: CONOCOPHILLIPS  
 Customer #: CRI2190  
 Ordered by: JENNI FORTUNATO  
 AFE #:  
 PO #:  
 Manifest #: 006  
 Manif. Date: 3/8/2022  
 Hauler: MCNABB PARTNERS  
 Driver: GUMER  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1281932  
 Bid #: O6UJ9A000HH0  
 Date: 3/8/2022  
 Generator: CONOCOPHILLIPS  
 Generator #:  
 Well Ser. #: 999908  
 Well Name: MCA BATTERY  
 Well #: 2  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	<del>18.00</del> yards 16.00

**Generator Certification Statement of Waste Status**

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

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

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



Permian Basin

Customer: CONOCOPHILLIPS  
Customer #: CRI2190  
Ordered by: JENNI FORTUNATO  
AFE #:  
PO #:  
Manifest #: 007  
Manif. Date: 3/9/2022  
Hauler: MCNABB PARTNERS  
Driver: GUMER  
Truck #: M32  
Card #  
Job Ref #

Ticket #: 700-1282308  
Bid #: O6UJ9A000HH0  
Date: 3/9/2022  
Generator: CONOCOPHILLIPS  
Generator #:  
Well Ser. #: 999908  
Well Name: MCA BATTERY  
Well #: 2  
Field:  
Field #:  
Rig: NON-DRILLING  
County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

**Generator Certification Statement of Waste Status**

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

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

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

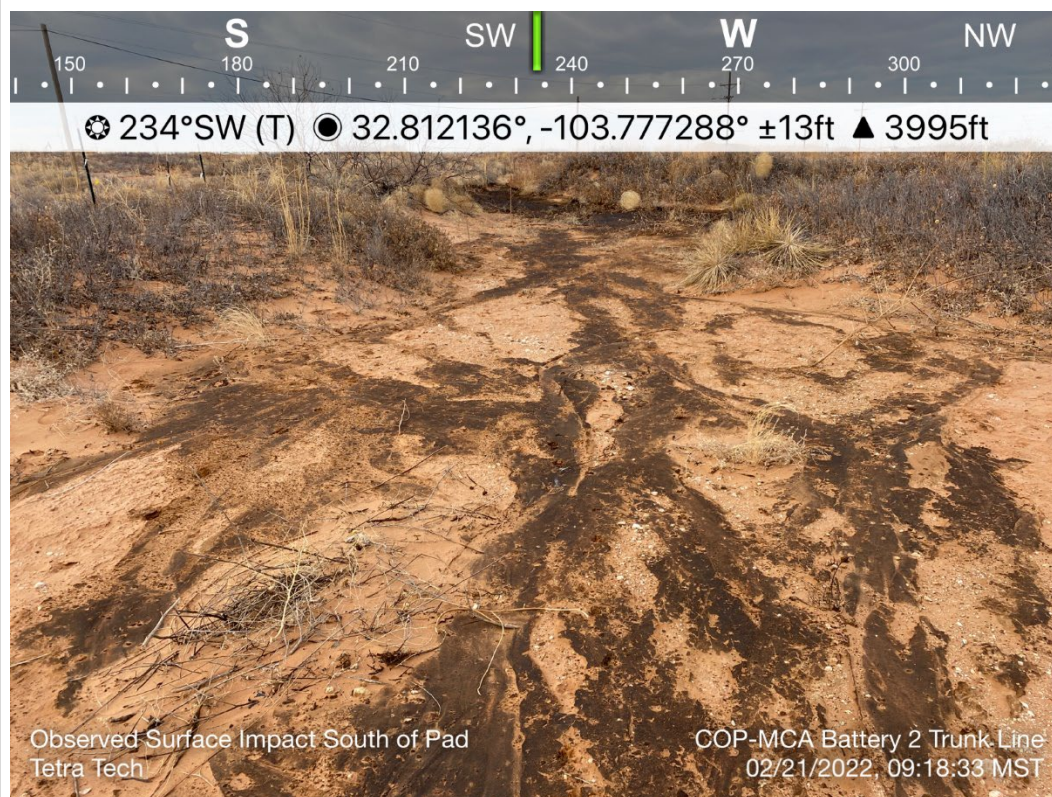
Date: \_\_\_\_\_

## **APPENDIX E**

### **Photographic Documentation**



TETRA TECH, INC. PROJECT NO. 212C-MD-02689	DESCRIPTION	Site signage: MCA Unit and location information.	1
	SITE NAME	ConocoPhillips MCA Battery 2 Trunkline Release	2/21/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02689	DESCRIPTION	View southwest. Release footprint south of lease pad.	2
	SITE NAME	ConocoPhillips MCA Battery 2 Trunkline Release	2/21/2022



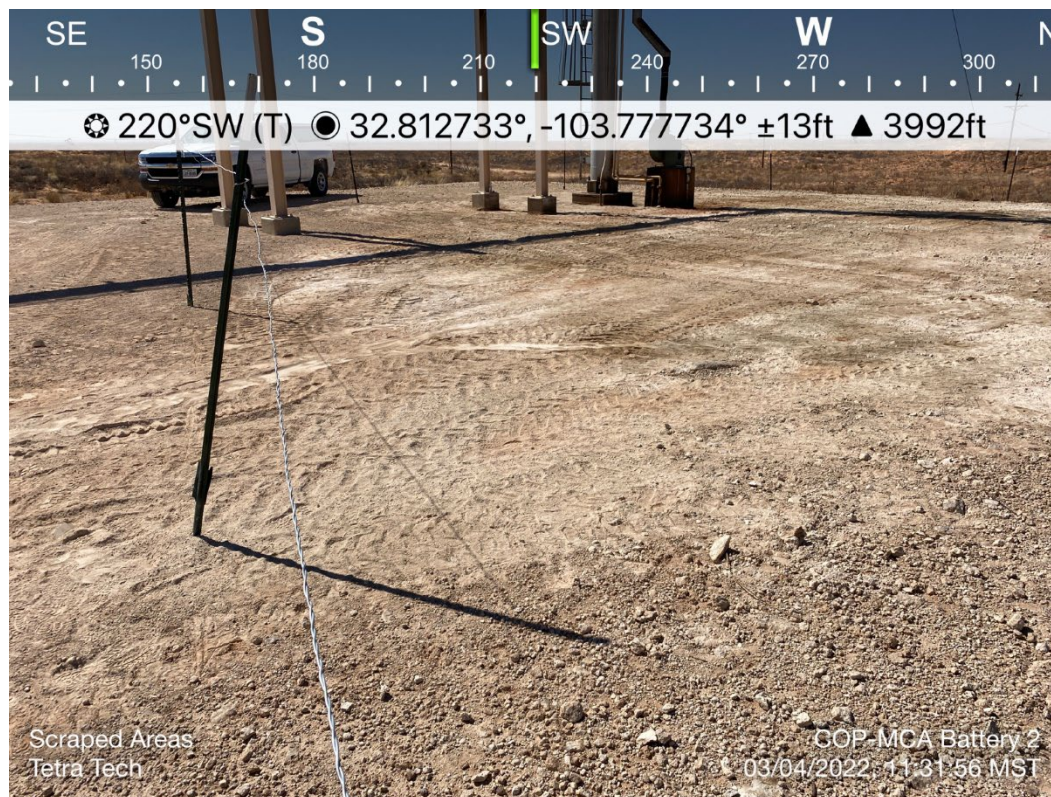
TETRA TECH, INC. PROJECT NO. 212C-MD-02689	DESCRIPTION	View southwest. Release footprint and surface staining south of lease pad.	3
	SITE NAME	ConocoPhillips MCA Battery 2 Trunkline Release	2/21/2022



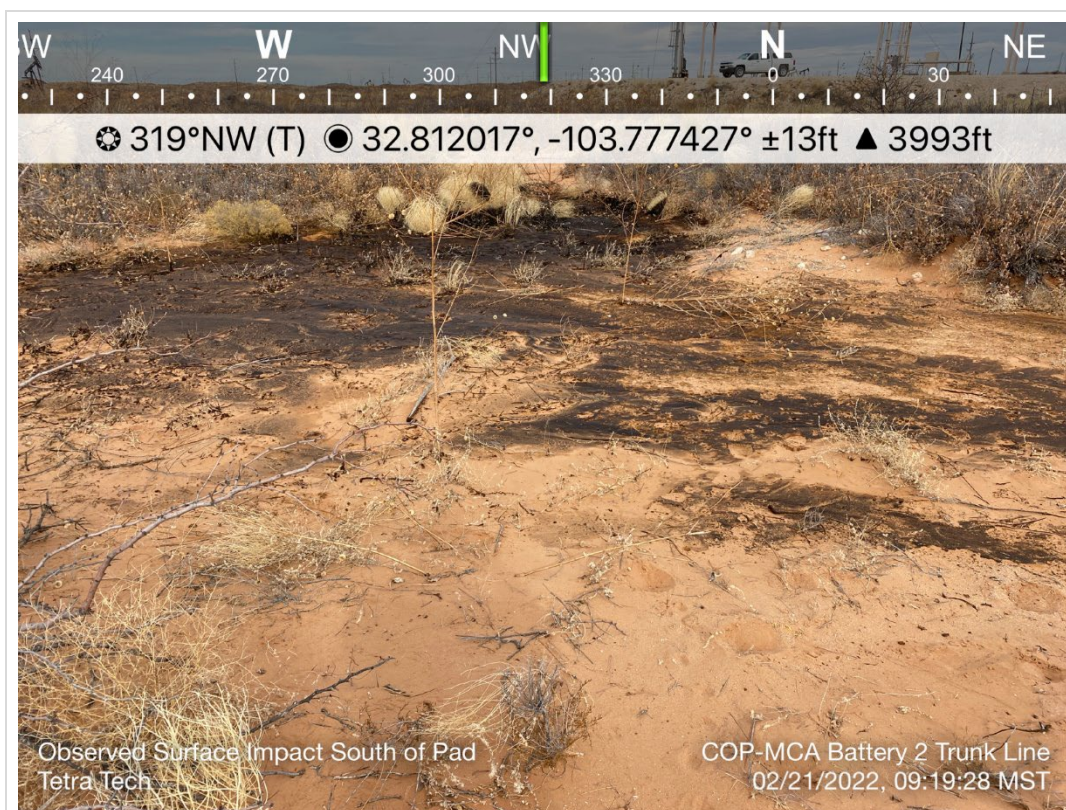
TETRA TECH, INC. PROJECT NO. 212C-MD-02689	DESCRIPTION	View southwest. Initial Response, 6" scrape.	4
	SITE NAME	ConocoPhillips MCA Battery 2 Trunkline Release	3/4/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02689	DESCRIPTION	View southwest. Flare Stack. Release footprint and surface staining.	5
	SITE NAME	ConocoPhillips MCA Battery 2 Trunkline Release	2/21/2022



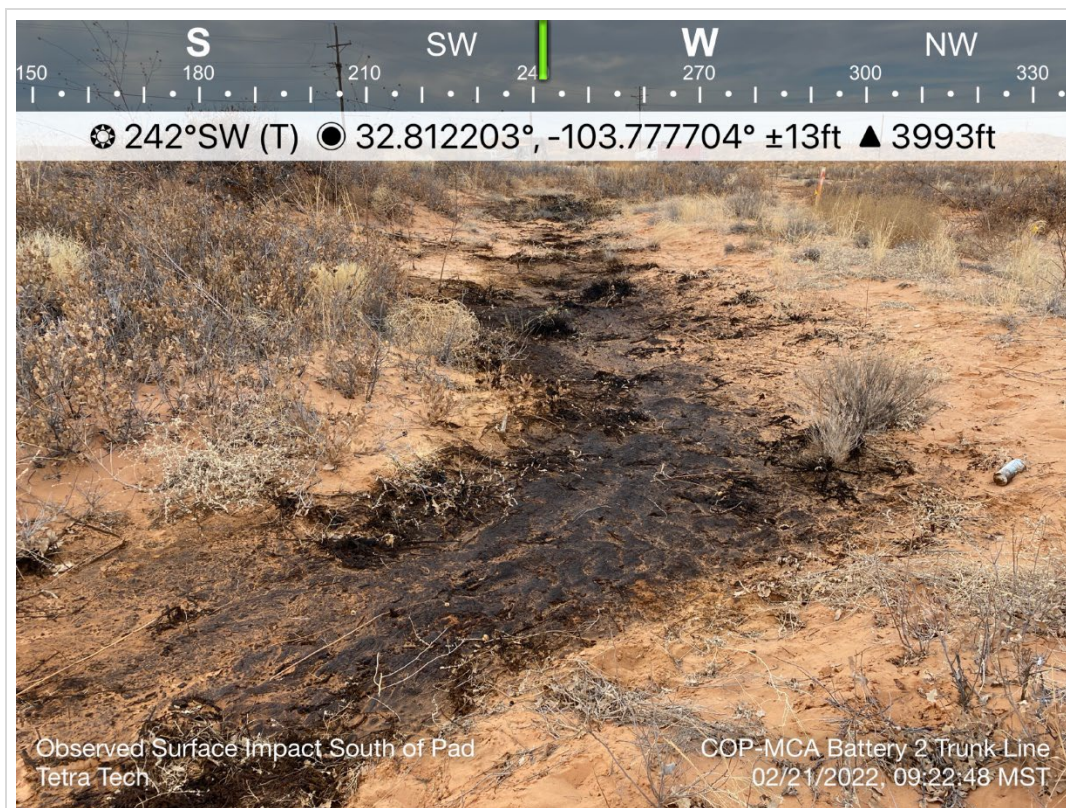
TETRA TECH, INC. PROJECT NO. 212C-MD-02689	DESCRIPTION	View southwest. Flare Stack. Initial Response, surface scrape.	6
	SITE NAME	ConocoPhillips MCA Battery 2 Trunkline Release	3/4/2022



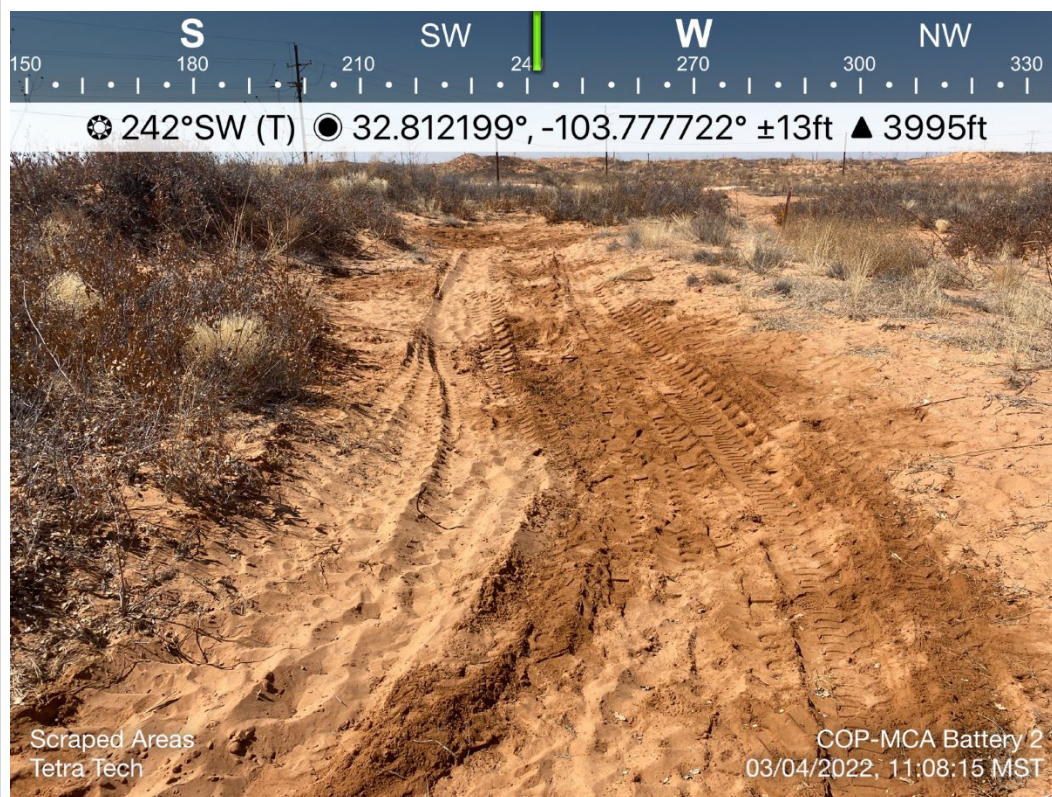
TETRA TECH, INC. PROJECT NO. 212C-MD-02689	DESCRIPTION	View northwest. Release footprint and surface staining.	7
	SITE NAME	ConocoPhillips MCA Battery 2 Trunkline Release	2/21/2022



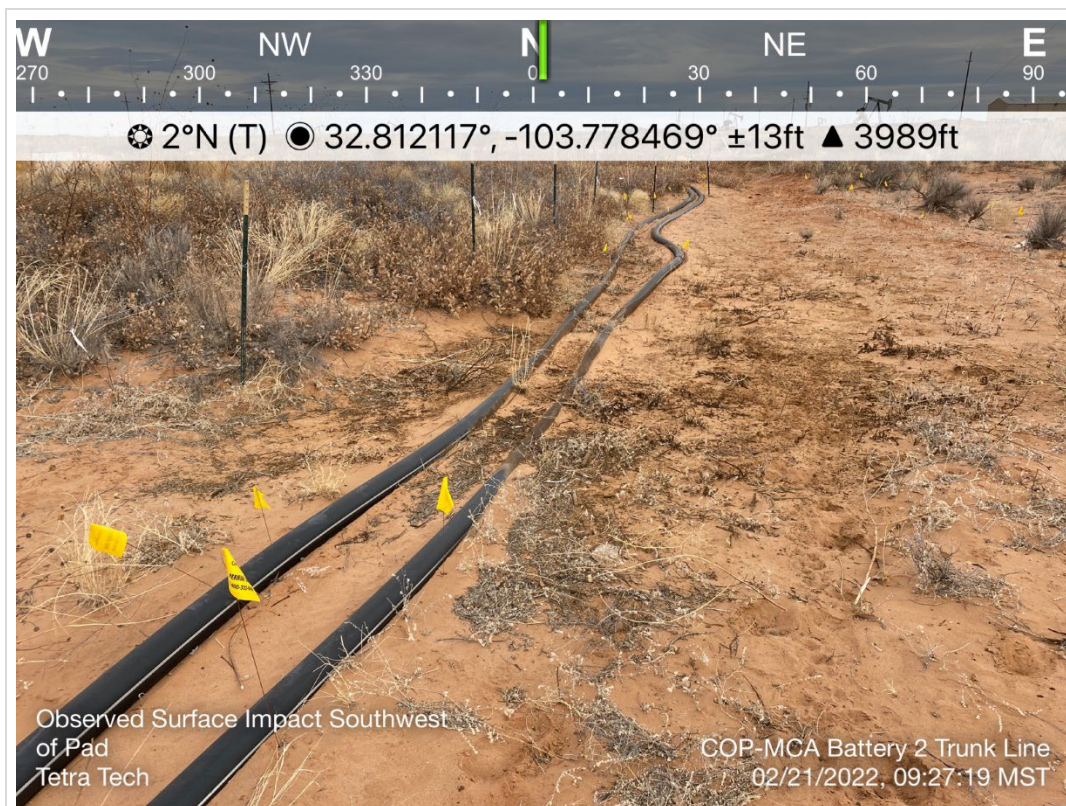
TETRA TECH, INC. PROJECT NO. 212C-MD-02689	DESCRIPTION	View northwest. Initial response, 6" scrape.	8
	SITE NAME	ConocoPhillips MCA Battery 2 Trunkline Release	3/4/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02689	DESCRIPTION	View west southwest. Release footprint and surface staining south of lease pad.	9
	SITE NAME	ConocoPhillips MCA Battery 2 Trunkline Release	2/21/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02689	DESCRIPTION	View west southwest. Initial Response, 6" scrape.	10
	SITE NAME	ConocoPhillips MCA Battery 2 Trunkline Release	3/4/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02689	DESCRIPTION	View north. Release footprint and surface staining southwest of lease pad.	11
	SITE NAME	ConocoPhillips MCA Battery 2 Trunkline Release	2/21/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02689	DESCRIPTION	View north. Initial Response, 6" scrape.	12
	SITE NAME	ConocoPhillips MCA Battery 2 Trunkline Release	3/4/2022

## **APPENDIX F**

### **Laboratory Analytical Data**



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

---

March 02, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MCA BATTERY 2 - " 14 " TRUNKLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/28/22 15:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/28/2022	Sampling Date:	02/28/2022
Reported:	03/02/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 2 ( 0-1' ) (H220770-01)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2022	ND	1.99	99.3	2.00	2.89		
Toluene*	<0.050	0.050	03/01/2022	ND	1.96	98.2	2.00	3.66		
Ethylbenzene*	<0.050	0.050	03/01/2022	ND	1.89	94.7	2.00	3.27		
Total Xylenes*	<0.150	0.150	03/01/2022	ND	5.90	98.4	6.00	2.97		
Total BTEX	<0.300	0.300	03/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/02/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2022	ND	204	102	200	7.14	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	204	102	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.6 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/28/2022	Sampling Date:	02/28/2022
Reported:	03/02/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 2 ( 1-2' ) (H220770-02)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2022	ND	1.99	99.3	2.00	2.89		
Toluene*	<0.050	0.050	03/01/2022	ND	1.96	98.2	2.00	3.66		
Ethylbenzene*	<0.050	0.050	03/01/2022	ND	1.89	94.7	2.00	3.27		
Total Xylenes*	<0.150	0.150	03/01/2022	ND	5.90	98.4	6.00	2.97		
Total BTEx	<0.300	0.300	03/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/02/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2022	ND	204	102	200	7.14	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	204	102	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					

Surrogate: 1-Chlorooctane 116 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/28/2022	Sampling Date:	02/28/2022
Reported:	03/02/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 3 ( 0-1' ) (H220770-03)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2022	ND	1.99	99.3	2.00	2.89		
Toluene*	<0.050	0.050	03/01/2022	ND	1.96	98.2	2.00	3.66		
Ethylbenzene*	<0.050	0.050	03/01/2022	ND	1.89	94.7	2.00	3.27		
Total Xylenes*	<0.150	0.150	03/01/2022	ND	5.90	98.4	6.00	2.97		
Total BTEx	<0.300	0.300	03/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/02/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2022	ND	204	102	200	7.14	
DRO >C10-C28*	47.0	10.0	03/01/2022	ND	204	102	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 111 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/28/2022	Sampling Date:	02/28/2022
Reported:	03/02/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 3 ( 1-2' ) (H220770-04)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2022	ND	1.99	99.3	2.00	2.89		
Toluene*	<0.050	0.050	03/01/2022	ND	1.96	98.2	2.00	3.66		
Ethylbenzene*	<0.050	0.050	03/01/2022	ND	1.89	94.7	2.00	3.27		
Total Xylenes*	<0.150	0.150	03/01/2022	ND	5.90	98.4	6.00	2.97		
Total BTEx	<0.300	0.300	03/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/02/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2022	ND	204	102	200	7.14	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	204	102	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/28/2022	Sampling Date:	02/28/2022
Reported:	03/02/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 4 ( 0-1' ) (H220770-05)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2022	ND	1.99	99.3	2.00	2.89		
Toluene*	<0.050	0.050	03/01/2022	ND	1.96	98.2	2.00	3.66		
Ethylbenzene*	<0.050	0.050	03/01/2022	ND	1.89	94.7	2.00	3.27		
Total Xylenes*	<0.150	0.150	03/01/2022	ND	5.90	98.4	6.00	2.97		
Total BTEx	<0.300	0.300	03/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/02/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2022	ND	204	102	200	7.14	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	204	102	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/28/2022	Sampling Date:	02/28/2022
Reported:	03/02/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 4 ( 1-2' ) (H220770-06)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2022	ND	1.99	99.3	2.00	2.89		
Toluene*	<0.050	0.050	03/01/2022	ND	1.96	98.2	2.00	3.66		
Ethylbenzene*	<0.050	0.050	03/01/2022	ND	1.89	94.7	2.00	3.27		
Total Xylenes*	<0.150	0.150	03/01/2022	ND	5.90	98.4	6.00	2.97		
Total BTEX	<0.300	0.300	03/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/02/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2022	ND	204	102	200	7.14	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	204	102	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					

Surrogate: 1-Chlorooctane 114 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/28/2022	Sampling Date:	02/28/2022
Reported:	03/02/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 6 ( 0-1' ) (H220770-07)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2022	ND	1.99	99.3	2.00	2.89		
Toluene*	<0.050	0.050	03/01/2022	ND	1.96	98.2	2.00	3.66		
Ethylbenzene*	<0.050	0.050	03/01/2022	ND	1.89	94.7	2.00	3.27		
Total Xylenes*	<0.150	0.150	03/01/2022	ND	5.90	98.4	6.00	2.97		
Total BTEx	<0.300	0.300	03/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/02/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2022	ND	204	102	200	7.14	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	204	102	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					

Surrogate: 1-Chlorooctane 117 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/28/2022	Sampling Date:	02/28/2022
Reported:	03/02/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 6 ( 1-2' ) (H220770-08)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2022	ND	1.99	99.3	2.00	2.89		
Toluene*	<0.050	0.050	03/01/2022	ND	1.96	98.2	2.00	3.66		
Ethylbenzene*	<0.050	0.050	03/01/2022	ND	1.89	94.7	2.00	3.27		
Total Xylenes*	<0.150	0.150	03/01/2022	ND	5.90	98.4	6.00	2.97		
Total BTEx	<0.300	0.300	03/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/02/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2022	ND	204	102	200	7.14	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	204	102	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					

Surrogate: 1-Chlorooctane 121 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/28/2022	Sampling Date:	02/28/2022
Reported:	03/02/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 7 ( 0-1' ) (H220770-09)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2022	ND	1.99	99.3	2.00	2.89		
Toluene*	<0.050	0.050	03/01/2022	ND	1.96	98.2	2.00	3.66		
Ethylbenzene*	<0.050	0.050	03/01/2022	ND	1.89	94.7	2.00	3.27		
Total Xylenes*	<0.150	0.150	03/01/2022	ND	5.90	98.4	6.00	2.97		
Total BTEx	<0.300	0.300	03/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/02/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2022	ND	204	102	200	7.14	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	204	102	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					

Surrogate: 1-Chlorooctane 123 % 66.9-136

Surrogate: 1-Chlorooctadecane 117 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/28/2022	Sampling Date:	02/28/2022
Reported:	03/02/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 7 ( 1-2' ) (H220770-10)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2022	ND	2.11	105	2.00	1.41		
Toluene*	<0.050	0.050	03/01/2022	ND	2.09	104	2.00	1.47		
Ethylbenzene*	<0.050	0.050	03/01/2022	ND	2.07	104	2.00	1.89		
Total Xylenes*	<0.150	0.150	03/01/2022	ND	6.42	107	6.00	1.70		
Total BTEx	<0.300	0.300	03/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/02/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2022	ND	204	102	200	7.14	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	204	102	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					

Surrogate: 1-Chlorooctane 124 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/28/2022	Sampling Date:	02/28/2022
Reported:	03/02/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 8 ( 0-1' ) (H220770-11)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2022	ND	2.11	105	2.00	1.41		
Toluene*	<0.050	0.050	03/01/2022	ND	2.09	104	2.00	1.47		
Ethylbenzene*	<0.050	0.050	03/01/2022	ND	2.07	104	2.00	1.89		
Total Xylenes*	<0.150	0.150	03/01/2022	ND	6.42	107	6.00	1.70		
Total BTEx	<0.300	0.300	03/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1820	16.0	03/02/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2022	ND	204	102	200	7.14	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	204	102	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					

Surrogate: 1-Chlorooctane 127 % 66.9-136

Surrogate: 1-Chlorooctadecane 120 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/28/2022	Sampling Date:	02/28/2022
Reported:	03/02/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 8 ( 1-2' ) (H220770-12)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2022	ND	2.11	105	2.00	1.41		
Toluene*	<0.050	0.050	03/01/2022	ND	2.09	104	2.00	1.47		
Ethylbenzene*	<0.050	0.050	03/01/2022	ND	2.07	104	2.00	1.89		
Total Xylenes*	<0.150	0.150	03/01/2022	ND	6.42	107	6.00	1.70		
Total BTEx	<0.300	0.300	03/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/02/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2022	ND	204	102	200	7.14	
DRO >C10-C28*	<10.0	10.0	03/01/2022	ND	204	102	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	03/01/2022	ND					

Surrogate: 1-Chlorooctane 126 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

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

---

### Notes and Definitions

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

---

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

---

Celey D. Keene, Lab Director/Quality Manager





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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

March 07, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MCA BATTERY 2 - " 14 " TRUNKLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 03/01/22 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 10 ( 0-1' ) (H220796-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	2.01	101	2.00	5.20	
Toluene*	<0.050	0.050	03/03/2022	ND	2.07	104	2.00	2.39	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	6.52	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.29	105	6.00	6.18	
Total BTEX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/04/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2022	ND	209	104	200	0.487	
DRO >C10-C28*	<10.0	10.0	03/03/2022	ND	208	104	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND					

Surrogate: 1-Chlorooctane 132 % 66.9-136

Surrogate: 1-Chlorooctadecane 130 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 11 ( 0-1' ) (H220796-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2022	ND	2.01	101	2.00	5.20		
Toluene*	<0.050	0.050	03/03/2022	ND	2.07	104	2.00	2.39		
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	6.52		
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.29	105	6.00	6.18		
Total BTEx	<0.300	0.300	03/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	03/04/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2022	ND	209	104	200	0.487	
DRO >C10-C28*	<10.0	10.0	03/03/2022	ND	208	104	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND					

Surrogate: 1-Chlorooctane 132 % 66.9-136

Surrogate: 1-Chlorooctadecane 130 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 8 ( 0-1' ) (H220796-03)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	2.01	101	2.00	5.20	
Toluene*	<0.050	0.050	03/03/2022	ND	2.07	104	2.00	2.39	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	6.52	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.29	105	6.00	6.18	
Total BTX	<0.300	0.300	03/03/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	03/04/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2022	ND	209	104	200	0.487	
DRO >C10-C28*	26.8	10.0	03/03/2022	ND	208	104	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND					

Surrogate: 1-Chlorooctane 122 % 66.9-136

Surrogate: 1-Chlorooctadecane 123 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 8 ( 1'-2' ) (H220796-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2022	ND	2.01	101	2.00	5.20		
Toluene*	<0.050	0.050	03/03/2022	ND	2.07	104	2.00	2.39		
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	6.52		
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.29	105	6.00	6.18		
Total BTEx	<0.300	0.300	03/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/04/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2022	ND	209	104	200	0.487	
DRO >C10-C28*	<10.0	10.0	03/03/2022	ND	208	104	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND					

Surrogate: 1-Chlorooctane 137 % 66.9-136

Surrogate: 1-Chlorooctadecane 135 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 9 ( 0-1' ) (H220796-05)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	2.01	101	2.00	5.20	
Toluene*	<0.050	0.050	03/03/2022	ND	2.07	104	2.00	2.39	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	6.52	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.29	105	6.00	6.18	
Total BTX	<0.300	0.300	03/03/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/04/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2022	ND	209	104	200	0.487	
DRO >C10-C28*	<10.0	10.0	03/03/2022	ND	208	104	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND					

Surrogate: 1-Chlorooctane 125 % 66.9-136

Surrogate: 1-Chlorooctadecane 124 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 9 ( 1'-2' ) (H220796-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2022	ND	2.01	101	2.00	5.20		
Toluene*	<0.050	0.050	03/03/2022	ND	2.07	104	2.00	2.39		
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	6.52		
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.29	105	6.00	6.18		
Total BTEx	<0.300	0.300	03/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/04/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	209	104	200	0.487	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	208	104	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 125 % 66.9-136

Surrogate: 1-Chlorooctadecane 126 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 11 ( 0-1' ) (H220796-07)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2022	ND	2.01	101	2.00	5.20		
Toluene*	<0.050	0.050	03/03/2022	ND	2.07	104	2.00	2.39		
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	6.52		
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.29	105	6.00	6.18		
Total BTEx	<0.300	0.300	03/03/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/04/2022	ND	432	108	400	3.77		

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	209	104	200	0.487	
DRO >C10-C28*	116	10.0	03/04/2022	ND	208	104	200	4.06	
EXT DRO >C28-C36	139	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 146 % 66.9-136

Surrogate: 1-Chlorooctadecane 155 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 11 ( 1'-2' ) (H220796-08)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43		
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80		
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48		
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.04	101	6.00	6.28		
Total BTEx	<0.300	0.300	03/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/04/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	209	104	200	0.487	
DRO >C10-C28*	117	10.0	03/04/2022	ND	208	104	200	4.06	
EXT DRO >C28-C36	162	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 146 % 66.9-136

Surrogate: 1-Chlorooctadecane 153 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 13 ( 0-1' ) (H220796-09)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43		
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80		
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48		
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.04	101	6.00	6.28		
Total BTX	<0.300	0.300	03/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/04/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	209	104	200	0.487	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	208	104	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 138 % 66.9-136

Surrogate: 1-Chlorooctadecane 139 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 13 ( 1'-2' ) (H220796-10)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43	
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.04	101	6.00	6.28	
Total BTX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/04/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	209	104	200	0.487	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	208	104	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 142 % 66.9-136

Surrogate: 1-Chlorooctadecane 140 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 14 ( 0-1' ) (H220796-11)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43		
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80		
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48		
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.04	101	6.00	6.28		
Total BTX	<0.300	0.300	03/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/04/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	209	104	200	0.487	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	208	104	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 134 % 66.9-136

Surrogate: 1-Chlorooctadecane 132 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 14 ( 1'-2' ) (H220796-12)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43		
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80		
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48		
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.04	101	6.00	6.28		
Total BTEx	<0.300	0.300	03/03/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/04/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	209	104	200	0.487	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	208	104	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 140 % 66.9-136

Surrogate: 1-Chlorooctadecane 137 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 22 - 1 ( 0-1' ) (H220796-13)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43		
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80		
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48		
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.04	101	6.00	6.28		
Total BTX	<0.300	0.300	03/03/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/04/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	209	104	200	0.487	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	208	104	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 22 - 1 ( 1'-2' ) (H220796-14)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43		
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80		
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48		
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.04	101	6.00	6.28		
Total BTX	<0.300	0.300	03/03/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/04/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	183	91.5	200	0.125	
DRO >C10-C28*	12.6	10.0	03/04/2022	ND	204	102	200	0.0265	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 22 - 2 ( 0-1' ) (H220796-15)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43		
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80		
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48		
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.04	101	6.00	6.28		
Total BTEx	<0.300	0.300	03/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/04/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	183	91.5	200	0.125	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	204	102	200	0.0265	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 80.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.7 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 22 - 2 ( 1'-2' ) (H220796-16)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43		
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80		
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48		
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.04	101	6.00	6.28		
Total BTX	<0.300	0.300	03/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/04/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	183	91.5	200	0.125	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	204	102	200	0.0265	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 88.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.3 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 22 - 3 ( 0-1' ) (H220796-17)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43		
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80		
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48		
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.04	101	6.00	6.28		
Total BTEx	<0.300	0.300	03/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	03/04/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	183	91.5	200	0.125	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	204	102	200	0.0265	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 84.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.6 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 22 - 3 ( 1'-2' ) (H220796-18)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43		
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80		
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48		
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.04	101	6.00	6.28		
Total BTX	<0.300	0.300	03/03/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/04/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	183	91.5	200	0.125	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	204	102	200	0.0265	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 87.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.7 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 1 ( 0-1' ) (H220796-19)**

BTEx 8021B		mg/kg		Analyzed By: MS\				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	03/03/2022	ND	1.98	99.2	2.00	6.43	
Toluene*	2.28	0.200	03/03/2022	ND	1.96	97.8	2.00	6.80	
Ethylbenzene*	10.8	0.200	03/03/2022	ND	1.96	98.0	2.00	6.48	
Total Xylenes*	22.0	0.600	03/03/2022	ND	6.04	101	6.00	6.28	
Total BTEX	35.1	1.20	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 155 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/04/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	477	50.0	03/07/2022	ND	183	91.5	200	0.125	
DRO >C10-C28*	2420	50.0	03/07/2022	ND	204	102	200	0.0265	
EXT DRO >C28-C36	442	50.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 183 % 66.9-136

Surrogate: 1-Chlorooctadecane 264 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 1 ( 2'-3' ) (H220796-20)**

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43	
Toluene*	0.195	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80	
Ethylbenzene*	0.772	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48	
Total Xylenes*	1.40	0.150	03/03/2022	ND	6.04	101	6.00	6.28	
Total BTEX	2.37	0.300	03/03/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/04/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	136	10.0	03/07/2022	ND	183	91.5	200	0.125	
DRO >C10-C28*	1490	10.0	03/07/2022	ND	204	102	200	0.0265	
EXT DRO >C28-C36	345	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 97.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 140 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 1 ( 3'-4' ) (H220796-21)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43		
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80		
Ethylbenzene*	0.090	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48		
Total Xylenes*	0.199	0.150	03/03/2022	ND	6.04	101	6.00	6.28		
Total BTEx	<0.300	0.300	03/03/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/04/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	15.6	10.0	03/04/2022	ND	183	91.5	200	0.125	
DRO >C10-C28*	260	10.0	03/04/2022	ND	204	102	200	0.0265	
EXT DRO >C28-C36	29.8	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 93.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 1 ( 5'-6' ) (H220796-22)**

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43	
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80	
Ethylbenzene*	0.069	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48	
Total Xylenes*	0.228	0.150	03/03/2022	ND	6.04	101	6.00	6.28	
Total BTEX	<0.300	0.300	03/03/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/04/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	23.2	10.0	03/04/2022	ND	183	91.5	200	0.125	
DRO >C10-C28*	357	10.0	03/04/2022	ND	204	102	200	0.0265	
EXT DRO >C28-C36	49.7	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 92.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 111 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 1 ( 7'-8' ) (H220796-23)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43	
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80	
Ethylbenzene*	0.190	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48	
Total Xylenes*	0.638	0.150	03/03/2022	ND	6.04	101	6.00	6.28	
Total BTX	0.828	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	03/04/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	43.7	10.0	03/04/2022	ND	183	91.5	200	0.125	
DRO >C10-C28*	502	10.0	03/04/2022	ND	204	102	200	0.0265	
EXT DRO >C28-C36	85.7	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 149 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 5 ( 0-1' ) (H220796-24)**

BTEx 8021B		mg/kg		Analyzed By: MS\				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43	
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80	
Ethylbenzene*	<b>0.755</b>	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48	
Total Xylenes*	<b>3.03</b>	0.150	03/03/2022	ND	6.04	101	6.00	6.28	
Total BTEX	<b>3.78</b>	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 177 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>608</b>	16.0	03/04/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>219</b>	10.0	03/07/2022	ND	183	91.5	200	0.125	
DRO >C10-C28*	<b>5020</b>	10.0	03/07/2022	ND	204	102	200	0.0265	
EXT DRO >C28-C36	<b>2420</b>	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 155 % 66.9-136

Surrogate: 1-Chlorooctadecane 257 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 5 ( 2'-3' ) (H220796-25)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43		
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80		
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48		
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.04	101	6.00	6.28		
Total BTEx	<0.300	0.300	03/03/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/04/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	183	91.5	200	0.125	
DRO >C10-C28*	368	10.0	03/07/2022	ND	204	102	200	0.0265	
EXT DRO >C28-C36	311	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 84.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 131 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/01/2022	Sampling Date:	03/01/2022
Reported:	03/07/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 5 ( 3'-4' ) (H220796-26)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2022	ND	1.98	99.2	2.00	6.43		
Toluene*	<0.050	0.050	03/03/2022	ND	1.96	97.8	2.00	6.80		
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.96	98.0	2.00	6.48		
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.04	101	6.00	6.28		
Total BTEx	<0.300	0.300	03/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/04/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	210	105	200	0.608	
DRO >C10-C28*	61.0	10.0	03/04/2022	ND	213	106	200	0.406	
EXT DRO >C28-C36	22.3	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 85.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.4 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



---

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

---

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

---

Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1/3

Company Name: <u>Cardinal Labs</u>		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Christina Linn</u>		Company: <u>Tetra Tech</u>					
Address: <u>Christina Linn@tetratech.com</u>		Attn: <u>Christina Linn</u>					
City: _____ State: _____ Zip: _____		Address: <u>by email</u>					
Phone #: _____ Fax #: _____		City: _____ State: _____ Zip: _____					
Project #: <u>212-100-02689</u> Project Owner: _____		Phone #: _____					
Project Name: <u>MCA Battery 2 Releases</u>		Fax #: _____					
Project Location: <u>Lee County, NM</u>		PRESERV. _____					
Sampler Name: <u>Colton Brakeroff</u>		SAMPLING _____					
FOR LAB USE ONLY							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			
				GROUNDWATER			
				WASTEWATER			
				SOIL			
				OIL			
				SLUDGE			
				OTHER:			
				ACID/BASE:			
				ICE / COOL			
				OTHER:			
				DATE	TIME		
<u>H20796</u>	<u>AAH-10 (0-1')</u>	<u>6</u>	<u>1</u>	<u>3/1/22</u>		<u>TPH</u>	<u>BTEX</u>
<u>1</u>	<u>AAH-11 (0-1')</u>					<u>Chlorides</u>	
<u>2</u>	<u>AAH-T-8 (0-1')</u>						
<u>3</u>	<u>AAH-T-8 (0-1')</u>						
<u>4</u>	<u>AAH-T-8 (0-1')</u>						
<u>5</u>	<u>AAH-T-9 (0-1')</u>						
<u>6</u>	<u>AAH-T-9 (0-1')</u>						
<u>7</u>	<u>AAH-T-11 (0-1')</u>						
<u>8</u>	<u>AAH-T-11 (0-1')</u>						
<u>9</u>	<u>AAH-T-13 (0-1')</u>						
<u>10</u>	<u>AAH-T-13 (0-1')</u>						

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

Relinquished By: _____	Date: <u>3/1/22</u>	Received By: _____	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #: _____
Relinquished By: <u>Colton Brakeroff</u>	Date: <u>3/1/22</u>	Received By: <u>Christina Linn</u>	All Results are emailed. Please provide Email address: _____	
Delivered By: (Circle One)	Observed Temp. °C <u>22.9</u>	Sample Condition	CHECKED BY: _____ (Initials)	Turnaround Time: _____
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>22.4</u>	Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Bacteria (only) Sample Condition
				Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>
				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
				Observed Temp. °C
				Corrected Temp. °C

REMARKS: Christina Linn@tetratech.com

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



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/3

Company Name: <u>ConocoPhillips</u>		P.O. #:		BILL TO				ANALYSIS REQUEST					
Project Manager: <u>Christina L. Williams</u>		Company: <u>Tetra Tech</u>											
Address: <u>Christina.L.Williams@tetra.tech</u>		Attn: <u>Christina L. Williams</u>											
City: _____		Address: <u>by email</u>											
State: _____		City: _____											
Zip: _____		State: _____											
Phone #: _____		Fax #: _____											
Project #: <u>212C-MD-02689</u>		Project Owner: _____											
Project Name: <u>NRA Battery 2 Release</u>		City: _____											
Project Location: <u>Los Alamos, NM</u>		State: _____											
Phone #: _____		Zip: _____											
Sample Name: <u>Coltho Baker</u>		Phone #: _____											
Fax #: _____		Fax #: _____											
FOR LAB USE ONLY													
Lab I.D. _____		Sample I.D. _____		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING	
11 <u>AAH-T-14 (0-1)</u>		6		GROUNDWATER		1		WASTEWATER		SOIL		DATE	
12 <u>AAH-T-14 (0-2)</u>		1		X		OIL		SLUDGE		OTHER :		TIME	
13 <u>AAH-T-14 (0-1)</u>		1		ACID/BASE:		3/1/22		TPH		BTX		Chlorides	
14 <u>AAH-T-14 (0-2)</u>		1		ICE / COOL		OTHER :							
15 <u>AAH-T-14 (0-1)</u>		1		DATE		TIME							
16 <u>AAH-T-14 (0-2)</u>		1		OTHER :									
17 <u>AAH-T-14 (0-1)</u>		1											
18 <u>AAH-T-14 (0-2)</u>		1											
19 <u>AAH-T-14 (0-1)</u>		1											
20 <u>AAH-T-14 (0-2)</u>		1											

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

Relinquished By: _____		Date: <u>3/1/22</u>		Received By: _____		Date: <u>3/1/22</u>		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
Relinquished By: <u>Coltho Baker</u>		Time: <u>1340</u>		Received By: <u>Jamara Williams</u>		Time: _____		All Results are emailed. Please provide Email address: _____		REMARKS: <u>Christina.L.Williams@tetra.tech</u>	
Delivered By: (Circle One)		Observed Temp. °C <u>22.9</u>		Sample Condition		CHECKED BY: (Initials) <u>VE</u>		Turnaround Time: _____		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <u>22.4</u>		Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Bacteria (only) Sample Condition		Thermometer ID #113		Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
				No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>		Observed Temp. °C		Correction Factor -0.5°C		Corrected Temp. °C	

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



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Conoco Phillips</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																																							
Project Manager: <u>Christen Lull</u>		P.O. #:																																									
Address: <u>Christen.Lull@stetatech.com</u>		Company: <u>Tetra Tech</u>																																									
City:		Attn: <u>Christen Lull</u>																																									
State:		Address: <u>by email</u>																																									
Zip:																																											
Phone #:		City:																																									
Fax #:		State:																																									
Project #: <u>212-MD-02689</u>		Zip:																																									
Project Owner:		City:																																									
Project Name: <u>MCA Bottom 2 Releases</u>		State:																																									
Project Location: <u>Lee County, NM</u>		Phone #:																																									
Sampler Name: <u>Colton Bickert</u>		Fax #:																																									
FOR LAB USE ONLY																																											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING																															
								GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME															
<u>HD20796</u>				<u>G1</u>		<u>1</u>		<u>X</u>																		<u>3/1/22</u>																	
<u>21 AH-1 (3-4')</u>																																											
<u>22 AH-1 (5-6')</u>																																											
<u>23 AH-1 (7-8')</u>																																											
<u>24 AH-5 (0-1')</u>																																											
<u>25 AH-5 (2-3')</u>																																											
<u>26 AH-5 (3-4')</u>																																											

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

Relinquished By: Colton Bickert Date: 3/1/22 Received By: Christen Lull Verbal Result: ☐ Yes ☒ No Add'l Phone #: Christen.Lull@stetatech.com

Relinquished By: Colton Bickert Date: 3/1/22 Received By: Christen Lull All Results are emailed. Please provide Email address: Christen.Lull@stetatech.com

Delivered By: (Circle One) ☒ UPS ☐ Bus ☐ Other: ☐ Corrected Temp. °C 22.4 Sample Condition ☐ Cool ☒ Intact ☐ Yes ☒ No ☐ No CHECKED BY: TL Turnaround Time: Standard ☒ Rush ☐ Bacteria (only) ☐ Cool ☒ Intact ☐ Yes ☒ No ☐ No Corrected Temp. °C 22.4

3/3



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

March 08, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MCA BATTERY 2 - " 14 " TRUNKLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 03/02/22 15:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 1 ( 0.5'-1.5' ) (H220830-01)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	1.96	97.8	2.00	6.52	
Toluene*	<0.050	0.050	03/04/2022	ND	1.93	96.6	2.00	6.68	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.86	92.8	2.00	6.21	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.81	96.9	6.00	5.66	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	03/04/2022	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	14.7	10.0	03/05/2022	ND	215	108	200	1.24	
DRO >C10-C28*	215	10.0	03/05/2022	ND	230	115	200	11.2	
EXT DRO >C28-C36	30.9	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 115 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 1 ( 2'-3' ) (H220830-02)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	109	2.00	0.514		
Toluene*	<0.050	0.050	03/04/2022	ND	2.15	107	2.00	0.0485		
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.12	106	2.00	0.478		
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.55	109	6.00	0.663		
Total BTEx	<0.300	0.300	03/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	03/04/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2022	ND	215	108	200	1.24	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	230	115	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 98.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 1 ( 3'-4' ) (H220830-03)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415		
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877		
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407		
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532		
Total BTEx	<0.300	0.300	03/04/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3280	16.0	03/04/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2022	ND	215	108	200	1.24	
DRO >C10-C28*	24.1	10.0	03/05/2022	ND	230	115	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 1 ( 5'-6' ) (H220830-04)**

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTEx	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	03/04/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2022	ND	215	108	200	1.24	
DRO >C10-C28*	56.5	10.0	03/05/2022	ND	230	115	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 96.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 3 ( 0.5'-1.5' ) (H220830-05)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	0.114	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1980	16.0	03/04/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	20.5	10.0	03/05/2022	ND	215	108	200	1.24	
DRO >C10-C28*	158	10.0	03/05/2022	ND	230	115	200	11.2	
EXT DRO >C28-C36	18.4	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 114 % 66.9-136

Surrogate: 1-Chlorooctadecane 122 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 3 ( 2'-3' ) (H220830-06)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	03/04/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2022	ND	215	108	200	1.24	
DRO >C10-C28*	107	10.0	03/05/2022	ND	230	115	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 3 ( 3'-4' ) (H220830-07)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	03/04/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.6	10.0	03/04/2022	ND	225	112	200	0.520	
DRO >C10-C28*	118	10.0	03/04/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	14.7	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 96.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 3 ( 5'-6' ) (H220830-08)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	03/04/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	225	112	200	0.520	
DRO >C10-C28*	21.9	10.0	03/04/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 90.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.2 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 4 ( 0.5'-1.5' ) (H220830-09)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	1.42	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	5.65	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	2.98	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTX	10.0	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 138 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2960	16.0	03/04/2022	ND	432	108	400	0.00		

TPH 8015M	mg/kg	Analyzed By: MS						S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	168	50.0	03/05/2022	ND	225	112	200	0.520	
DRO >C10-C28*	1320	50.0	03/05/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	616	50.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 95.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 145 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 4 ( 2'-3' ) (H220830-10)**

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	0.168	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTEx	0.311	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	03/04/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.8	10.0	03/05/2022	ND	225	112	200	0.520	
DRO >C10-C28*	262	10.0	03/05/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	112	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 90.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 4 ( 3'-4' ) (H220830-11)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415		
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877		
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407		
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532		
Total BTEx	<0.300	0.300	03/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	03/04/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	225	112	200	0.520	
DRO >C10-C28*	51.2	10.0	03/04/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	13.7	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 94.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 4 ( 5'-6' ) (H220830-12)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1860	16.0	03/04/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	225	112	200	0.520	
DRO >C10-C28*	30.9	10.0	03/04/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 88.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.8 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 5 ( 0.5'-1.5' ) (H220830-13)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415		
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877		
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407		
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532		
Total BTEx	<0.300	0.300	03/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/04/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	225	112	200	0.520	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 89.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.4 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 5 ( 2'-3' ) (H220830-14)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/04/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2022	ND	225	112	200	0.520	
DRO >C10-C28*	404	10.0	03/05/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	202	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 98.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 129 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 5 ( 3'-4' ) (H220830-15)**

BTX 8021B		mg/kg		Analyzed By: MS\				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	GC-NC
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	GC-NC
Total BTX	<0.300	0.300	03/04/2022	ND					GC-NC

Surrogate: 4-Bromofluorobenzene (PID) 249 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/04/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	357	10.0	03/04/2022	ND	225	112	200	0.520	
DRO >C10-C28*	1640	10.0	03/04/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	219	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 119 % 66.9-136

Surrogate: 1-Chlorooctadecane 141 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 7 ( 0.5'-1.5' ) (H220830-16)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415		
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877		
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407		
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532		
Total BTEx	<0.300	0.300	03/04/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	03/04/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2022	ND	225	112	200	0.520	
DRO >C10-C28*	131	10.0	03/05/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	104	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 93.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 7 ( 2'-3' ) (H220830-17)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/04/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	225	112	200	0.520	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	11.6	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 91.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.9 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 7 ( 3'-4' ) (H220830-18)**

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTEx	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/04/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	225	112	200	0.520	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.1 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 7 ( 5'-6' ) (H220830-19)**

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532	
Total BTEx	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/04/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	225	112	200	0.520	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 91.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.9 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 10 ( 0-1' ) (H220830-20)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415		
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877		
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407		
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532		
Total BTEx	<0.300	0.300	03/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/04/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2022	ND	225	112	200	0.520	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 91.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.6 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 10 ( 1'-2' ) (H220830-21)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415		
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877		
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407		
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532		
Total BTEx	<0.300	0.300	03/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/04/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2022	ND	225	112	200	0.520	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 92.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.6 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 12 ( 0-1' ) (H220830-22)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	110	2.00	0.415		
Toluene*	<0.050	0.050	03/04/2022	ND	2.14	107	2.00	0.0877		
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.11	106	2.00	0.407		
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.54	109	6.00	0.532		
Total BTEx	<0.300	0.300	03/04/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/04/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2022	ND	225	112	200	0.520	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 86.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.8 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 12 ( 1'-2' ) (H220830-23)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2022	ND	1.95	97.5	2.00	11.6		
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	100	2.00	6.98		
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.92	96.0	2.00	8.86		
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.94	99.0	6.00	9.69		
Total BTEX	<0.300	0.300	03/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/04/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2022	ND	225	112	200	0.520	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 89.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.1 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 15 ( 0-1' ) (H220830-24)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2022	ND	1.95	97.5	2.00	11.6		
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	100	2.00	6.98		
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.92	96.0	2.00	8.86		
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.94	99.0	6.00	9.69		
Total BTEx	<0.300	0.300	03/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/04/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2022	ND	225	112	200	0.520	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 91.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 100 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 15 ( 1'-2' ) (H220830-25)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2022	ND	1.95	97.5	2.00	11.6		
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	100	2.00	6.98		
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.92	96.0	2.00	8.86		
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.94	99.0	6.00	9.69		
Total BTEX	<0.300	0.300	03/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/04/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2022	ND	225	112	200	0.520	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 87.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.4 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 9 ( 0-1' ) (H220830-26)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	1.95	97.5	2.00	11.6	
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	100	2.00	6.98	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.92	96.0	2.00	8.86	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.94	99.0	6.00	9.69	
Total BTX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1390	16.0	03/04/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2022	ND	225	112	200	0.520	
DRO >C10-C28*	674	10.0	03/05/2022	ND	237	118	200	2.10	
EXT DRO >C28-C36	323	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 91.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.6 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 9 ( 2'-3' ) (H220830-27)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2022	ND	1.95	97.5	2.00	11.6		
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	100	2.00	6.98		
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.92	96.0	2.00	8.86		
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.94	99.0	6.00	9.69		
Total BTX	<0.300	0.300	03/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/04/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	231	115	200	0.498	
DRO >C10-C28*	13.6	10.0	03/07/2022	ND	207	104	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 77.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.3 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 9 ( 3'-4' ) (H220830-28)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2022	ND	1.95	97.5	2.00	11.6		
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	100	2.00	6.98		
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.92	96.0	2.00	8.86		
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.94	99.0	6.00	9.69		
Total BTEx	<0.300	0.300	03/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1180	16.0	03/04/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	231	115	200	0.498	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	207	104	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 87.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.0 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 9 ( 5'-6' ) (H220830-29)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2022	ND	1.95	97.5	2.00	11.6		
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	100	2.00	6.98		
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.92	96.0	2.00	8.86		
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.94	99.0	6.00	9.69		
Total BTX	<0.300	0.300	03/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2280	16.0	03/04/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	231	115	200	0.498	
DRO >C10-C28*	24.7	10.0	03/07/2022	ND	207	104	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 94.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 9 ( 7'-8' ) (H220830-30)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2022	ND	1.95	97.5	2.00	11.6		
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	100	2.00	6.98		
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.92	96.0	2.00	8.86		
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.94	99.0	6.00	9.69		
Total BTEx	<0.300	0.300	03/04/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/04/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	231	115	200	0.498	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	207	104	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 92.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.3 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

 $\frac{1}{3}$



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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3/3

Company Name: <u>ConocoPhillips</u>		P.O. #:		BILL TO				ANALYSIS REQUEST			
Project Manager: <u>Christen Hall</u>		Company: <u>Tetra Tech</u>									
Address: <u>Christen Hall @tetratech.com</u>		Attn: <u>Christen Hall</u>									
City: _____		Address: <u>by email</u>									
State: _____		City: _____									
Zip: _____		State: _____									
Project #: <u>2126-MD-02689</u>		Project Owner: _____									
Project Name: <u>NCA Battery 2 Releases</u>		City: _____									
Project Location: <u>Lee County, NM</u>		State: _____									
Sample Name: <u>Colton Bickertoff</u>		Phone #: _____									
FOR LAB USE ONLY		Fax #: _____									
Lab I.D. <u>H220830</u>		Sample I.D. _____									
21 AH-T-10 (1'-2')		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING	
22 AH-T-12 (0-1')		61		GROUNDWATER		WASTEWATER		SOIL		OIL	
23 AH-T-12 (1'-2')		X		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL	
24 AH-T-15 (0-1')		3/2/22		DATE		TIME		TPH		BTX	
25 AH-T-15 (1'-2')		X		X		X		Chlorides			
26 AH-T-15 (1'-2')		X		X		X					
27 AH-9 (2'-3')		X		X		X					
28 AH-9 (3'-4')		X		X		X					
29 AH-9 (5'-6')		X		X		X					
30 AH-9 (7'-8')		X		X		X					

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

Relinquished By: <u>Colton Bickertoff</u>	Date: <u>3/2/22</u>	Received By: <u>Juanita Sandoval</u>	Date: <u>3/2/22</u>
Time: <u>1545</u>	Time: _____	Time: _____	Time: _____
Date: _____	Date: _____	Date: _____	Date: _____
Time: _____	Time: _____	Time: _____	Time: _____

Delivered By: (Circle One) ☒ UPS ☐ Bus ☐ Other: \_\_\_\_\_

Observed Temp. °C 23.7 Corrected Temp. °C 23.2

Sample Condition ☐ Cool ☐ Intact ☐ Yes ☐ No ☐ Yes ☐ No

Checked By: (Initials) JS

Turnaround Time: ☐ Standard ☒ Rush

Thermometer ID #113 Correction Factor -0.5°C

Bacteria (only) ☐ Cool ☐ Intact ☐ Yes ☐ No ☐ Yes ☐ No

Sample Condition ☐ Observed Temp. °C \_\_\_\_\_ Corrected Temp. °C \_\_\_\_\_

Verbal Result: ☐ Yes ☒ No Add'l Phone #: \_\_\_\_\_

All Results are emailed. Please provide Email address: \_\_\_\_\_

REMARKS: \_\_\_\_\_

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



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

---

March 08, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MCA BATTERY 2 - " 14 " TRUNKLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 03/03/22 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 2 ( 0.5'-1.5' ) (H220845-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	2.45	
Toluene*	<0.050	0.050	03/05/2022	ND	2.13	107	2.00	1.86	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.04	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.36	106	6.00	1.89	
Total BTEX	<0.300	0.300	03/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	03/07/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 84.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.7 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 2 ( 2'-3' ) (H220845-02)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	2.45		
Toluene*	<0.050	0.050	03/05/2022	ND	2.13	107	2.00	1.86		
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.04	102	2.00	1.92		
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.36	106	6.00	1.89		
Total BTEx	<0.300	0.300	03/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	03/07/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 82.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.3 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 2 ( 3'-4' ) (H220845-03)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	2.45	
Toluene*	<0.050	0.050	03/05/2022	ND	2.13	107	2.00	1.86	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.04	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.36	106	6.00	1.89	
Total BTEx	<0.300	0.300	03/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	03/07/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 85.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.6 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 2 ( 5'-6' ) (H220845-04)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	2.45		
Toluene*	<0.050	0.050	03/05/2022	ND	2.13	107	2.00	1.86		
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.04	102	2.00	1.92		
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.36	106	6.00	1.89		
Total BTEx	<0.300	0.300	03/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2680	16.0	03/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 86.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.3 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 2 ( 7'-8' ) (H220845-05)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	2.45	
Toluene*	<0.050	0.050	03/05/2022	ND	2.13	107	2.00	1.86	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.04	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.36	106	6.00	1.89	
Total BTEx	<0.300	0.300	03/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	03/07/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 76.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 77.5 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 6 ( 0.5'-1.5' ) (H220845-06)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	2.45		
Toluene*	<0.050	0.050	03/05/2022	ND	2.13	107	2.00	1.86		
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.04	102	2.00	1.92		
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.36	106	6.00	1.89		
Total BTEx	<0.300	0.300	03/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2760	16.0	03/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	262	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	175	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 76.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.3 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 6 ( 2'-3' ) (H220845-07)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	2.45	
Toluene*	<0.050	0.050	03/05/2022	ND	2.13	107	2.00	1.86	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.04	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.36	106	6.00	1.89	
Total BTEx	<0.300	0.300	03/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	03/07/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 77.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.0 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 6 ( 3'-4' ) (H220845-08)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	2.45		
Toluene*	<0.050	0.050	03/05/2022	ND	2.13	107	2.00	1.86		
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.04	102	2.00	1.92		
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.36	106	6.00	1.89		
Total BTEx	<0.300	0.300	03/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6160	16.0	03/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 79.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.1 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 22 - 4 ( 0.5'-1.5' ) (H220845-09)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	2.45		
Toluene*	<0.050	0.050	03/05/2022	ND	2.13	107	2.00	1.86		
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.04	102	2.00	1.92		
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.36	106	6.00	1.89		
Total BTEx	<0.300	0.300	03/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 74.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 76.0 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 22 - 4 ( 2'-3' ) (H220845-10)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	2.45		
Toluene*	<0.050	0.050	03/05/2022	ND	2.13	107	2.00	1.86		
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.04	102	2.00	1.92		
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.36	106	6.00	1.89		
Total BTEX	<0.300	0.300	03/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 80.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.2 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 22 - 4 ( 3'-4' ) (H220845-11)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	2.45		
Toluene*	<0.050	0.050	03/05/2022	ND	2.13	107	2.00	1.86		
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.04	102	2.00	1.92		
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.36	106	6.00	1.89		
Total BTEx	<0.300	0.300	03/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1720	16.0	03/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 79.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.2 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 22 - 4 ( 5'-6' ) (H220845-12)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	2.45		
Toluene*	<0.050	0.050	03/05/2022	ND	2.13	107	2.00	1.86		
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.04	102	2.00	1.92		
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.36	106	6.00	1.89		
Total BTEx	<0.300	0.300	03/05/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	03/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 88.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.6 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 22 - 5 ( 0.5'-1.5' ) (H220845-13)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/04/2022	ND	2.19	109	2.00	0.514		
Toluene*	<0.050	0.050	03/04/2022	ND	2.15	107	2.00	0.0485		
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.12	106	2.00	0.478		
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.55	109	6.00	0.663		
Total BTEx	<0.300	0.300	03/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	03/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 67.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 69.2 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 22 - 5 ( 2'-3' ) (H220845-14)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514		
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485		
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478		
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663		
Total BTEx	<0.300	0.300	03/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 79.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.2 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 22 - 5 ( 3'-4' ) (H220845-15)**

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514	
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663	
Total BTEx	<0.300	0.300	03/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 82.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.7 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 22 - 5 ( 5'-6' ) (H220845-16)**

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514	
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663	
Total BTEx	<0.300	0.300	03/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 82.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.4 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 22 - 5 ( 7'-8' ) (H220845-17)**

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514	
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663	
Total BTEx	<0.300	0.300	03/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/07/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	200	99.8	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 87.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.1 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

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

---

### Notes and Definitions

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

---

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

---

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: ConocoPhillips

Project Manager: Christen Lull

Address: Christen.Lull@etatech.com

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Project #: 212C-MD-02689 Project Owner: \_\_\_\_\_

Project Name: MLA Gathering 2 Releases

Project Location: Lea County, NM

Sampler Name: Letitia Bakerstaff

FOR LAB USE ONLY

## BILL TO

## ANALYSIS REQUEST

P.O. #:

Company: Tetra Tech

Attn: Christen Lull

Address: by email

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Lab I.D. \_\_\_\_\_ Sample I.D. \_\_\_\_\_

H220845

1 AH-T-2 (0.5'-1.5')  
2 AH-T-2 (2'-3')  
3 AH-T-2 (3'-4')  
4 AH-T-2 (5'-6')  
5 AH-T-2 (7'-9')  
6 AH-T-6 (0.5'-1.5')  
7 AH-T-6 (2'-3')  
8 AH-T-6 (3'-4')  
9 AH-T-2 (0.5'-1.5')  
10 AH-T-2 (2'-3')

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

Relinquished By: \_\_\_\_\_

Date: 3/3/22

Received By: \_\_\_\_\_

Verbal Result: ☐ Yes ☒ No

Add'l Phone #: \_\_\_\_\_

All Results are emailed. Please provide Email address: \_\_\_\_\_

Relinquished By: Letitia Bakerstaff

Date: 3/3/22

Received By: Christen Lull

REMARKS: Christen.Lull@etatech.com

Time: \_\_\_\_\_

Date: \_\_\_\_\_

Turnaround Time: \_\_\_\_\_

Thermometer ID #113

Correction Factor -0.5°C

Standard Rush

Bacteria (only) Sample Condition

Cool Intact ☐ Yes ☐ No

Observed Temp. °C

Corrected Temp. °C

Delivered By: (Circle One)

Observed Temp. °C 23.6

Corrected Temp. °C 23.1

Sample Condition

Cool Intact ☒ Yes ☐ No

Checked By: \_\_\_\_\_

(Initials)

Turnaround Time: \_\_\_\_\_

Thermometer ID #113

Correction Factor -0.5°C

Standard Rush

Bacteria (only) Sample Condition

Cool Intact ☐ Yes ☐ No

Observed Temp. °C

Corrected Temp. °C

FORM-006-R 3.2.10/07/12

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

1/2



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/2

<b>Company Name:</b> <u>Cardinal Labs</u> <b>Project Manager:</b> <u>Christen Lull</u> <b>Address:</b> <u>Christen Lull Extraction Tech, Inc</u> <b>City:</b> _____ <b>State:</b> _____ <b>Zip:</b> _____ <b>Phone #:</b> _____ <b>Fax #:</b> _____ <b>Project #:</b> <u>212C-MD-01689</u> <b>Project Owner:</b> _____ <b>Project Name:</b> <u>MCA Battery 2 Releases</u> <b>Project Location:</b> <u>Lee County, NY</u> <b>Sampler Name:</b> <u>Coleen Baker</u>		<b>P.O. #:</b> _____ <b>Company:</b> <u>Tetra Tech</u> <b>Attn:</b> <u>Christen Lull</u> <b>Address:</b> <u>by email</u> <b>City:</b> _____ <b>State:</b> _____ <b>Zip:</b> _____ <b>Phone #:</b> _____ <b>Fax #:</b> _____	
<b>FOR LAB USE ONLY</b>		<b>BILL TO</b>	
<b>Lab I.D.</b> <u>H220845</u>		<b>ANALYSIS REQUEST</b>	
<b>Sample I.D.</b>		<b>MATRIX</b>	
11 AH-22-4 (3'-4') 12 AH-22-4 (5'-6') 13 AH-22-5 (0.5'-1.5') 14 AH-22-5 (2'-3') 15 AH-22-5 (3'-4') 16 AH-22-5 (5'-6') 17 AH-22-5 (7'-8')		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	
DATE <u>3/3/22</u>		TIME <u>1530</u>	
RELINQUISHED BY: <u>Coleen Baker</u> Date: <u>3/3/22</u> Time: <u>1530</u>		RECEIVED BY: <u>Christen Lull</u> Date: <u>3/3/22</u> Time: <u>1530</u>	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C <u>23.4</u> Corrected Temp. °C <u>23.1</u>	
Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		CHECKED BY: <u>A.B.</u> (Initials)	
Turnaround Time: <u>Standard</u> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Observed Temp. °C Corrected Temp. °C	
REMARKS: <u>Christen Lull Extraction Tech, Inc</u>			

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



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

---

March 14, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MCA BATTERY 2 - " 14 " TRUNKLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 03/09/22 15:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/09/2022	Sampling Date:	03/09/2022
Reported:	03/14/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 1 ( 8'-9' ) (H220948-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2022	ND	2.10	105	2.00	0.996	
Toluene*	<0.050	0.050	03/12/2022	ND	2.11	106	2.00	3.53	
Ethylbenzene*	<0.050	0.050	03/12/2022	ND	2.08	104	2.00	1.83	
Total Xylenes*	<0.150	0.150	03/12/2022	ND	6.46	108	6.00	1.78	
Total BTEX	<0.300	0.300	03/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	03/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2022	ND	190	94.9	200	1.09	
DRO >C10-C28*	<10.0	10.0	03/11/2022	ND	208	104	200	0.559	
EXT DRO >C28-C36	<10.0	10.0	03/11/2022	ND					

Surrogate: 1-Chlorooctane 96.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/09/2022	Sampling Date:	03/09/2022
Reported:	03/14/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 1 ( 11'-12' ) (H220948-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/12/2022	ND	2.10	105	2.00	0.996		
Toluene*	<0.050	0.050	03/12/2022	ND	2.11	106	2.00	3.53		
Ethylbenzene*	<0.050	0.050	03/12/2022	ND	2.08	104	2.00	1.83		
Total Xylenes*	<0.150	0.150	03/12/2022	ND	6.46	108	6.00	1.78		
Total BTEx	<0.300	0.300	03/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	03/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2022	ND	178	89.2	200	0.626	
DRO >C10-C28*	<10.0	10.0	03/11/2022	ND	217	108	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	03/11/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/09/2022	Sampling Date:	03/09/2022
Reported:	03/14/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 6 ( 5'-6' ) (H220948-03)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2022	ND	2.10	105	2.00	0.996	
Toluene*	<0.050	0.050	03/12/2022	ND	2.11	106	2.00	3.53	
Ethylbenzene*	<0.050	0.050	03/12/2022	ND	2.08	104	2.00	1.83	
Total Xylenes*	<0.150	0.150	03/12/2022	ND	6.46	108	6.00	1.78	
Total BTEx	<0.300	0.300	03/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	03/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2022	ND	178	89.2	200	0.626	
DRO >C10-C28*	26.4	10.0	03/11/2022	ND	217	108	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	03/11/2022	ND					

Surrogate: 1-Chlorooctane 116 % 66.9-136

Surrogate: 1-Chlorooctadecane 120 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/09/2022	Sampling Date:	03/09/2022
Reported:	03/14/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 6 ( 7'-8' ) (H220948-04)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2022	ND	2.10	105	2.00	0.996	
Toluene*	<0.050	0.050	03/12/2022	ND	2.11	106	2.00	3.53	
Ethylbenzene*	<0.050	0.050	03/12/2022	ND	2.08	104	2.00	1.83	
Total Xylenes*	<0.150	0.150	03/12/2022	ND	6.46	108	6.00	1.78	
Total BTEx	<0.300	0.300	03/12/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2140	16.0	03/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2022	ND	178	89.2	200	0.626	
DRO >C10-C28*	<10.0	10.0	03/12/2022	ND	217	108	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	03/12/2022	ND					

Surrogate: 1-Chlorooctane 93.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.6 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/09/2022	Sampling Date:	03/09/2022
Reported:	03/14/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 5 ( 5'-6' ) (H220948-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/12/2022	ND	2.10	105	2.00	0.996		
Toluene*	<0.050	0.050	03/12/2022	ND	2.11	106	2.00	3.53		
Ethylbenzene*	<0.050	0.050	03/12/2022	ND	2.08	104	2.00	1.83		
Total Xylenes*	<0.150	0.150	03/12/2022	ND	6.46	108	6.00	1.78		
Total BTEx	<0.300	0.300	03/12/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2022	ND	178	89.2	200	0.626	
DRO >C10-C28*	<10.0	10.0	03/11/2022	ND	217	108	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	03/11/2022	ND					

Surrogate: 1-Chlorooctane 97.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/09/2022	Sampling Date:	03/09/2022
Reported:	03/14/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 5 ( 7'-8' ) (H220948-06)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2022	ND	2.10	105	2.00	0.996	
Toluene*	<0.050	0.050	03/12/2022	ND	2.11	106	2.00	3.53	
Ethylbenzene*	<0.050	0.050	03/12/2022	ND	2.08	104	2.00	1.83	
Total Xylenes*	<0.150	0.150	03/12/2022	ND	6.46	108	6.00	1.78	
Total BTX	<0.300	0.300	03/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/12/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2022	ND	178	89.2	200	0.626	
DRO >C10-C28*	<10.0	10.0	03/11/2022	ND	217	108	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	03/11/2022	ND					

Surrogate: 1-Chlorooctane 97.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.2 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/09/2022	Sampling Date:	03/09/2022
Reported:	03/14/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 1 ( 7'-8' ) (H220948-07)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2022	ND	2.10	105	2.00	0.996	
Toluene*	<0.050	0.050	03/12/2022	ND	2.11	106	2.00	3.53	
Ethylbenzene*	<0.050	0.050	03/12/2022	ND	2.08	104	2.00	1.83	
Total Xylenes*	<0.150	0.150	03/12/2022	ND	6.46	108	6.00	1.78	
Total BTEx	<0.300	0.300	03/12/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7360	16.0	03/12/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2022	ND	178	89.2	200	0.626	
DRO >C10-C28*	<10.0	10.0	03/11/2022	ND	217	108	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	03/11/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/09/2022	Sampling Date:	03/09/2022
Reported:	03/14/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 1 ( 9'-10' ) (H220948-08)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/12/2022	ND	2.10	105	2.00	0.996		
Toluene*	<0.050	0.050	03/12/2022	ND	2.11	106	2.00	3.53		
Ethylbenzene*	<0.050	0.050	03/12/2022	ND	2.08	104	2.00	1.83		
Total Xylenes*	<0.150	0.150	03/12/2022	ND	6.46	108	6.00	1.78		
Total BTEx	<0.300	0.300	03/12/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5360	16.0	03/12/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2022	ND	178	89.2	200	0.626	
DRO >C10-C28*	<10.0	10.0	03/11/2022	ND	217	108	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	03/11/2022	ND					

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/09/2022	Sampling Date:	03/09/2022
Reported:	03/14/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 16 ( 0-1' ) (H220948-09)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2022	ND	2.10	105	2.00	0.996	
Toluene*	<0.050	0.050	03/12/2022	ND	2.11	106	2.00	3.53	
Ethylbenzene*	<0.050	0.050	03/12/2022	ND	2.08	104	2.00	1.83	
Total Xylenes*	<0.150	0.150	03/12/2022	ND	6.46	108	6.00	1.78	
Total BTX	<0.300	0.300	03/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/12/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2022	ND	178	89.2	200	0.626	
DRO >C10-C28*	<10.0	10.0	03/12/2022	ND	217	108	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	03/12/2022	ND					

Surrogate: 1-Chlorooctane 114 % 66.9-136

Surrogate: 1-Chlorooctadecane 117 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/09/2022	Sampling Date:	03/09/2022
Reported:	03/14/2022	Sampling Type:	Soil
Project Name:	MCA BATTERY 2 - " 14 " TRUNKLINE RI	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02689	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - T - 16 ( 1'-2' ) (H220948-10)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/12/2022	ND	2.10	105	2.00	0.996		
Toluene*	<0.050	0.050	03/12/2022	ND	2.11	106	2.00	3.53		
Ethylbenzene*	<0.050	0.050	03/12/2022	ND	2.08	104	2.00	1.83		
Total Xylenes*	<0.150	0.150	03/12/2022	ND	6.46	108	6.00	1.78		
Total BTEx	<0.300	0.300	03/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/12/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2022	ND	178	89.2	200	0.626	
DRO >C10-C28*	<10.0	10.0	03/12/2022	ND	217	108	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	03/12/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



---

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

---

### Notes and Definitions

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

---

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

---

Celey D. Keene, Lab Director/Quality Manager



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

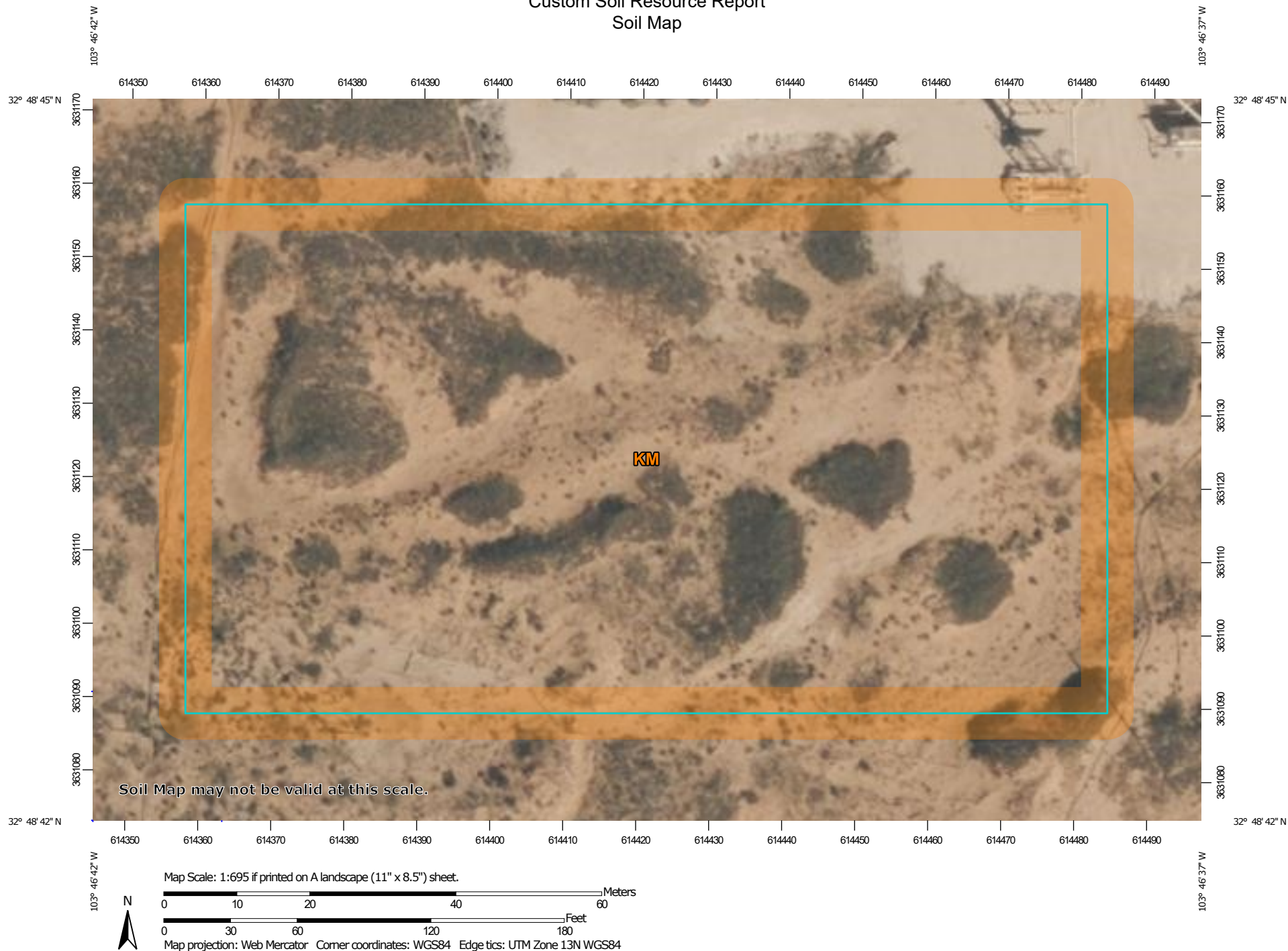
**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: ConcealPHM						P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Christian Lull								Company: Tetra Tech			
Address:								Attn: Christian Lull			
City:								Address: by email			
State:								City:			
Zip:								State:			
Phone #:								Fax #:			
Project #: 212C-MD-02689								Project Owner:			
Project Name: MCA Battery 2 Releases								State:			
Project Location: Lee County, MN								Phone #:			
Sampler Name: Cotton Breckenridge								Fax #:			
FOR LAB USE ONLY								MATRIX		PRESERV.	
Lab I.D.						Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS	
H220498						1		GROUNDWATER		DATE	
1						AH-1 (8'-9')		WASTEWATER		TIME	
2						AH-1 (11'-12')		SOIL		TPH	
3						AH-T-6 (5'-6')		OIL		BTEX	
4						AH-T-6 (7'-8')		SLUDGE		Chlorides	
5						AH-T-5 (5'-6')		OTHER :			
6						AH-T-5 (7'-8')		ACID/BASE:			
7						AH-T-1 (7'-8')		ICE / COOL			
8						AH-T-1 (9'-10')		OTHER :			
9						AH-T-16 (10'-11')					
10						AH-T-16 (11'-12')					
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 service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.											
Relinquished By: [Signature]						Date: 3/19/02		Received By: [Signature]		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:	
Time: 1:54 PM										All Results are emailed. Please provide Email address:	
Relinquished By: [Signature]						Date: [Blank]		Received By: [Signature]		REMARKS: Christian.Lull@tetratech.com	
Delivered By: (Circle One)						Observed Temp. °C: 23.6		Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: [Signature] (Initials)	
Corrected Temp. °C: 23.1								Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Sampler - UPS - Bus - Other:								Thermometer ID #113		Bacteria (only) Sample Condition: Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
								Correction Factor -0.5°C		Observed Temp. °C: [Blank]	
										Corrected Temp. °C: [Blank]	

## **APPENDIX G**

### **NMSLO Seed Mixture Details**


# Custom Soil Resource Report Soil Map




## Custom Soil Resource Report

## MAP LEGEND

## Area of Interest (AOI)

 Area of Interest (AOI)


## Soils


 Soil Map Unit Polygons


 Soil Map Unit Lines


 Soil Map Unit Points

## Special Point Features

 Blowout

 Borrow Pit

 Clay Spot


 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water


 Perennial Water

 Rock Outcrop


 Saline Spot

 Sandy Spot

 Severely Eroded Spot


 Sinkhole

 Slide or Slip


 Sodic Spot


 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

## Water Features

 Streams and Canals


## Transportation

 Rails


 Interstate Highways

 US Routes

 Major Roads

 Local Roads

## Background

 Aerial Photography

## MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:  
Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Lea County, New Mexico  
Survey Area Data: Version 18, Sep 10, 2021

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

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

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

## Custom Soil Resource Report

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KM	Kermit soils and Dune land, 0 to 12 percent slopes	2.2	100.0%
<b>Totals for Area of Interest</b>		<b>2.2</b>	<b>100.0%</b>

## Map Unit Descriptions

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

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

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

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

## Custom Soil Resource Report

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

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

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

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

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

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

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

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

## Custom Soil Resource Report

**Lea County, New Mexico****KM—Kermit soils and Dune land, 0 to 12 percent slopes****Map Unit Setting**

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

**Map Unit Composition**

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

**Description of Kermit****Setting**

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

**Typical profile**

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

**Properties and qualities**

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

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* A  
*Ecological site:* R042XC022NM - Sandhills  
*Hydric soil rating:* No

## Custom Soil Resource Report

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

*Landform:* Dunes

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

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

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

*Across-slope shape:* Convex

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

**Typical profile**

*A - 0 to 6 inches:* fine sand

*C - 6 to 60 inches:* fine sand

**Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 8

*Hydrologic Soil Group:* A

*Hydric soil rating:* No

**Minor Components****Pyote**

*Percent of map unit:* 3 percent

*Ecological site:* R042XC003NM - Loamy Sand

*Hydric soil rating:* No

**Palomas**

*Percent of map unit:* 3 percent

*Ecological site:* R042XC003NM - Loamy Sand

*Hydric soil rating:* No

**Wink**

*Percent of map unit:* 2 percent

*Ecological site:* R042XC003NM - Loamy Sand

*Hydric soil rating:* No

**Maljamar**

*Percent of map unit:* 2 percent

*Ecological site:* R042XC003NM - Loamy Sand

*Hydric soil rating:* No

**SLO Seed Mix****SM Series****1 REVEGETATION PLANS**

The following Revegetation Plans were developed for revegetation of sites in southeastern New Mexico. To determine which revegetation plan is appropriate follow procedures in the section titled Determining the Revegetation Plan.

Revegetation Plans contain seed mixtures, as well as seed bed preparation and planting requirements. The detailed instructions for seedbed preparation and planting can be found in the section Revegetation Techniques.

**Table 3 - Revegetation Plans, Codes, and Soil Types for Southeastern New Mexico**

REVEGETATION PLANS	CODE	SOIL TEXTURES
<b>Clay</b>	C	Clay, Silty Clay, Stony Silty Clay, Clay Loam, Silty Clay Loam (including saline and sodic Clay soils)
<b>Loam</b>	L	Silty Loam, Cobbly Silt Loam, Stony Silt Loam, Silt, Loam, Sandy, Clay Loam
<b>Sandy Loam</b>	SL	Very Fine Sandy Loam, Fine Sandy Loam, Cobbly Fine Sandy Loam, Sandy Loam, Cobbly Sandy Loam, Gravelly Fine Sandy Loam, Very Gravelly Fine Sand Loam, Stony Fine Sandy Loam, Stony Sandy Loam
<b>Shallow</b>	SH	Rocky Loam, Cobbly Loam
<b>Course</b>	CS	Gravelly Loam, very Gravelly Loam, Gravelly Sandy Loam, Very Gravelly Sandy Loam, Stony Loam, Stony Sandy Loam
<b>Sandy</b>	S	Loamy Fine Sand, Loam Sand, Very Gravelly Loamy Fine Sand
<b>Blow Sand</b>	BS	Fine Sand, Sand, Coarse Sand
<b>Mountain Meadow</b>	MM	Clay, Loam
<b>Mountain Upland</b>	MU	Clay Loam, Loam



# NMSLO Seed Mix

# Deep Sand (DS)

---

## 1.1 BLOW SAND SITES REVEGETATION PLAN (BS)

Use this Revegetation Plan with the following ESD's:

**CP2** – Sandy Plains, Sandhills, Deep Sand, Shallow Plains

**HP3** – Loamy Sand, Sandy Plains, Sandhills, Deep Sand

**SD3** – Loamy Sand, Deep Sand, Sandhills, Salt Meadow

**Soil Texture:** Fine Sand, Sand, Course Sand

### Revegetation Procedures:

#### I. For flat or gently sloping areas with slopes less than or equal to 3H:1V:

1. **Soil Amendments:** Apply composted manure or similar at the rate of 30.0 air dry tons/acre.
2. **Fertilize:** Type 2
3. **Mulch** – Grass Hay mulch applied at 2.0 tons/acre
4. **Prepare the seedbed and incorporate mulch, fertilizer, and soil amendments:**
  - a. Scarify
  - b. Disc (thoroughly mix mulch, fertilizer, and soil amendments in top 6-8 inches of soil before proceeding).
5. **Drill Seed** – use rangeland drill and apply Drill box seed to 0.5-0.75 inch depth, apply small seed to surface and lightly cover with drag chains or packer wheels or equal.
6. **Mulch** – Grass Hay mulch applied at 2.0 tons/acre
7. **Crimp**
8. **Tackify** – tackify to minimize risk of mulch blowing and to hold soil and mulch in place until vegetation begins to establish.
9. **Wind Fence** – Install wind fence.



**NMSLO Seed Mix****Deep Sand (DS)****DEEP SAND (DS) SITES SEED MIXTURE:**

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
<b>Grasses:</b>			
Sand bluestem	Elida, VNS, So.	4.0	F
Sideoats grama	Vaughn, El Reno	4.0	F
Little bluestem	Cimarron, Pastura	3.0	F
Plains bristlegrass	VNS, Southern	1.0	D
Sand dropseed	VNS, Southern	2.0	S
Blue grama	Lovington	1.0	D
<b>Forbs:</b>			
Firewheel (Gaillardia)	VNS, Southern	1.0	D
Annual Sunflower	VNS, Southern	0.5	D
Prairie Conflower	VNS, Southern	0.5	D
<b>Total PLS/acre</b>		<b>17</b>	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

VNS = Variety Not Stated, PLS = Pure Live Seed

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



## NMSLO Seed Mix

## Deep Sand (DS)

---



**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 101732

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 101732
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Composite confirmation samples will be collected from the bottom and sidewalls of the excavation from areas representing no more than four hundred (400) square feet.	5/20/2022