



June 25, 2024

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

**Re: Site Characterization and Remediation Work Plan  
BTA Oil Producers, LLC  
Harroun Ranch West Fire  
Unit Letter O, Section 20, Township 23 South, Range 29 East  
Eddy County, New Mexico  
NMOCD Incident ID# nAPP2411724780**

Dear Sir or Madam,

Tetra Tech, Inc. (Tetra Tech) was contracted by BTA Oil Producers, LLC (BTA) to assist with the management of releases of oil and produced water as the result of a fire at the Harroun Ranch West tank battery, Unit Letter O, Section 20, Township 23 South, Range 29 East, in Eddy County, New Mexico, at coordinates 32.285895°, -104.006467° (Site). The location is shown in **Figure 1** and **Figure 2**.

## BACKGROUND

On April 25, 2024, a fire consumed the Harroun Ranch West facility. Upon report of the fire, BTA immediately isolated production lines and pipelines associated with the facility, and emergency response activities were immediately initiated by the local fire department which extinguished the fire. BTA dispatched vacuum trucks immediately to begin recovering released fluids, as accessible safely. As soon as the Site was cool enough to safely approach, BTA began demolition of the remaining equipment and scraping of surficial impacted soils on the facility pad. Approximately 580 barrels (bbls) of oil and 1,200 bbls of produced water were released as a result of which approximately 100 bbls of produced water was recovered during the initial response activities. The release notification was submitted to NMOCD and the Bureau of Land Management (BLM) on April 26, 2024, and subsequently assigned the release Incident Identification (ID) nAPP2411724780. The release extent is shown in **Figure 3**.

## SITE CHARACTERIZATION

### Receptors

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

### Depth to Groundwater

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within ½ mile of the Site. The nearest well is approximately 0.85 miles away with a depth to water of 16 feet below ground surface (bgs) and the next nearest well is approximately 1.13 miles away with a depth to water of 44 feet bgs. Based on the proximity of the site to the salt playa to the north just over 300 feet away and the Pecos River to

**Tetra Tech, Inc.**

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the southwest approximately 1 mile away, the depth to groundwater at the site is inferred to be less than 25 feet bgs. The groundwater site characterization data is included in **Attachment 1**.

## Soils

According to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), the Site is mapped as having Simona-Bippus complex, 0 to 5 percent slopes soil, which is classified as a Loam soil type. The USDA NCRS Soil Map and soil profile are provided in **Attachment 1**.

## REGULATORY FRAMEWORK

Based upon the release footprint location and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels for Benzene, Toluene, Ethylbenzene, and Xylene (BTEX), Total Petroleum Hydrocarbons (TPH) in soil.

### TPH, BTEX, and Benzene Reclamation Requirements

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the remediation RRALs for the Site default to Reclamation Requirements for groundwater less than 50 feet bgs due to the proximity of inferred shallow groundwater estimated as less than 25 feet below ground surface. Reclamation Requirements are as follows:

**Reclamation Requirements**

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

### Chloride Background Assessment

A historical aerial imagery review of Google Earth imagery indicates that the playa lake just over 300 feet north of the Site is saline and has historically encroached or overflowed over the current release area and Site prior to the construction of the levy north of the Site between 2014 and 2016. Field screening of the playa water indicated elevated total dissolved solids concentrations and apparent salts are visible in the bottom of the playa when dry in 2005, 2011, 2012, 2013, 2014, 2017, 2019, and 2023 aerial images.

In accordance with 19.15.29 Table I Closure Criteria for Soils Impacted by a release, the prescribed Closure Criteria may be substituted for natural background levels if greater than the Closure Criteria. The State of New Mexico Energy Minerals and Natural Resources Department *Notice Process Updates re: Submissions of Form C-141 Release Notification and Corrective Actions, Dated December 1, 2023*, states that when determining background limits, grab samples should be gathered in endemic areas undisturbed by oil and gas activities, nominally uphill from the release area, no closer than 50 feet but no farther than 100 feet from the lateral and horizontal extents of a release's impact or disturbed areas.

Background samples are discussed below, completed in accordance with the December 1, 2023, Notice to document background chloride concentrations, determine the range of background chloride concentrations in the vicinity, and establish the Remediation Criteria for chloride at the Site Based on the NMOCD direction that statistical analysis of background concentrations is unsuitable and an average must be used, as discussed below.

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### Chloride Remediation Criteria

Constituent	Remediation RRAL
Chloride	3,080 mg/kg

## INITIAL RESPONSE AND ASSESSMENT ACTIVITIES

On April 25, 2024, a fire consumed the Harroun Ranch West facility. Upon report of the fire, BTA immediately isolated production lines and pipelines associated with the facility, and emergency response activities were immediately initiated by the local fire department which extinguished the fire. BTA dispatched vacuum trucks immediately to begin recovering released fluids, as accessible safely. As soon as the Site was cool enough to safely approach, BTA began demolition of the remaining equipment and scraping of surficial impacted soils on the facility pad. Approximately 580 barrels (bbls) of oil and 1,200 bbls of produced water were released as a result of which approximately 100 bbls of produced water was recovered during the initial response activities.

## SITE ASSESSMENT SUMMARY

### Initial Soil Assessment

BTA conducted test pitting and soil assessment sampling on May 2, 2023, to begin vertical and horizontal delineation of the release. A total of 11 surface lateral delineation samples were collected from the upper 6 inches and 15 test pits (PH 1 through PH 15) were advanced to depths of between 2 and 6 feet bgs within the release footprint. Soils at the Site consist of light brown sandy loam with gravel to approximately 6 feet bgs which are underlain by an indurated layer. Soil assessment location locations are depicted in **Figure 3** and location coordinates are provided in **Table 1**.

Soils were field screened for salinity using an ExTech EC400 ExStik to determine sampling intervals. A total of 27 samples were collected from assessment locations and submitted to Cardinal Laboratory in Hobbs, New Mexico (Cardinal) for analysis of BTEX by Method 8021B, TPH by Method 8015M, and chloride by Method SM4500Cl-B.

Analytical results associated with lateral delineation location H 9 reported and test pit PH 9 2-4' reported total TPH as greater than Reclamation Requirements at concentrations of 141 mg/kg and 3,475 mg/kg, respectively. Test pit sample PH 9 2-4' which reported a chloride concentration of 6,560 mg/kg. Other samples reported benzene, BTEX, and TPH concentrations as less than respective Reclamation Requirements and chloride concentrations as generally elevated at concentrations greater than Reclamation Requirements but within the range of the expected background chloride concentrations discussed below. Laboratory analytical results are summarized in **Table 3** screened against Reclamation Requirements and analytical data packages including chain of custody documentation are provided in **Attachment 2**.

### Additional Soil Assessment

On May 21, 2024, BTA returned to the Site to conduct additional surface sampling and test pitting to complete vertical and horizontal delineation of the release in relation to locations H8 and PH 16. The H8 location sampled on May 21 is different from the H8 location sampled on May 2, and the locations are shown as H8 (5/2) and H8 (5/21) in the figures and tables. Two (2) additional lateral delineation soil samples were collected from the upper 0.5 feet of the soil horizon at H8 (5/21) and PH 16 and two additional vertical delineation soil samples were collected from PH 16. Additional soil assessment location locations are depicted in **Figure 3** and location coordinates are provided in **Table 1**.

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Analytical results associated with additional delineation locations H8 (5/21) and test pit PH 16 reported total TPH and chloride as less than Reclamation Requirements. Laboratory analytical results are summarized in **Table 3** screened against Reclamation Requirements and analytical data packages including chain of custody documentation are provided in **Attachment 2**.

## CHLORIDE SOIL BACKGROUND ASSESSMENT

On May 14, 2024, BTA conducted test pitting in the vicinity of the release site to conduct background soil sampling to support a determination of elevated background chloride concentrations at the Site in accordance with 19.15.29 NMAC and the State of New Mexico Energy, Minerals and Natural Resources Department *Notice Process Updates re: Submissions of Form C-141 Release Notification and Corrective Actions*, Dated December 1, 2023.

BTA collected seven (7) grab background samples from approximately 4 feet below ground surface (bgs) from areas undisturbed by oil and gas activities surrounding the Site, between 50 and 100 feet away from the horizontal extents of the release or existing disturbed oil and gas development. Background samples are representative of the entire horizontal and vertical extent of the release area. Additionally, one (1) surface water sample was collected from the playa lake approximately 300 feet to the north and uphill from the Site. Background sample locations are presented in **Table 2** and **Figure 4**.

Collected samples were immediately placed on ice and submitted to Cardinal Laboratory in Hobbs New Mexico for chloride analysis by Method SM4500Cl-B. Background soil sample concentrations ranged from 288 mg/kg at Background - BG 7 @ 4' sample, collected from a location south and downhill from the Site, to 6,880 mg/kg at Background - BG 4 @ 4' collected from a location to the east of the Site. The background surface water sample collected from the playa lake reported a concentration of 232,000 mg/L. Soil and surface water background sample laboratory analytical results are summarized in **Table 4** and **Table 5**, respectively. The laboratory analytical data packages are included in **Attachment 2**.

### Background Chloride Statistical Analysis

Tetra Tech reviewed the laboratory analytical results and conducted a statistical analysis using the U.S. EPA ProUCL statistical software package. Background sample analytical results and utilized a 95-percent Student's-t UCL statistical analysis to calculate the mean soil chloride concentration of background samples collected at the Site.

The NMOCD rejected the background concentration statistical analysis results presented in the initial Site Characterization and Remediation Work Plan submitted to the NMOCD on June 13, 2024, and stated that the OCD will accept an average of the seven (7) background samples presented in **Table 4** as the background chloride concentration threshold. Therefore, BTA proposes to use 3,080 mg/kg, the average of the seven background samples, as the chloride remediation criteria at the Site.

## REMEDIATION WORK PLAN

Based on the analytical results from the assessment, BTA proposes to remove the impacted material within the release extent as shown in **Figure 4**. Impacted soils will be excavated using heavy equipment (backhoes, hoe rams, and track hoes) to an approximate depth of 2 to 4 feet below the surrounding surface, or until representative samples from the excavation sidewalls and the floor of the excavation report concentrations of constituents as less than Site Reclamation Requirements or the established soil chloride background concentration. Heavy equipment will come no more than two feet from any pressurized lines. Impacted soils within the vicinity of the surface and subsurface lines that intersect the release footprint will be excavated with hydro-vac excavation or dug by hand to the maximum extent practicable.

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Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Sampling notification will be submitted to the NMOCD in accordance with 19.15.29.12 NMAC. Once final analytical results are received demonstrating clean margins the excavation will then be backfilled with clean material to surface grade sourced from a local supplier. The estimated volume of material to be remediated is approximately 5,100 cubic yards.

Remediation at the site has already begun and the majority of the excavation is complete as of the date of this report. Remediation is anticipated to be complete within 3 weeks of NMOCD remediation work plan approval.

## ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, BTA requests an alternative confirmation sampling plan to adhere to NMOCD requirements that includes sidewall and base confirmation sampling representative of 400 square feet of excavation base or sidewall area. BTA proposes to submit samples to Cardinal Laboratory for analysis of TPH by Method 8015 modified, BTEX by Method 8260B, and chloride by Method 4500CL-B. Once results are received, the excavation will then be backfilled with clean material to surface grade.

## CONCLUSION

Based on the results of the soil assessment sampling, the impacted soil within the release footprint TPH, BTEX, and chloride concentrations greater than Reclamation Requirements or background concentrations have been laterally and vertically delineated with the exception of at H7, H9, PH3 and PH9 which will be fully vertically and laterally delineated during remediation to Reclamation Requirements. The chloride background concentration for the purposes of remediation has been established as 3,080 mg/kg. If you have any questions concerning the remediation activities for the Site, please email Charles Terhune at [chuck.terhune@tetrattech.com](mailto:chuck.terhune@tetrattech.com) or telephone at (832) 252-2093.

Sincerely,



Chris Straub  
Project Manager  
Tetra Tech, Inc.



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

cc: Ray Ramos, BTA Oil Producers, LLC  
Bureau of Land Management

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## LIST OF ATTACHMENTS

### Figures

- Figure 1 – Overview and Topographic Map
- Figure 2 – Approximate Release Extent and Site Assessment Map
- Figure 3 – Background Sample Location Map
- Figure 4 – Proposed Remediation Extent and Confirmation Sampling Plan

### Tables

- Table 1 – Site Assessment Location Coordinates
- Table 2 – Background Assessment Location Coordinates
- Table 3 – Summary of Analytical Results – Site Assessment Sampling
- Table 4 – Summary of Analytical Results – Soil Background Assessment Sampling
- Table 5 – Summary of Analytical Results – Surface Water Background Assessment Sampling

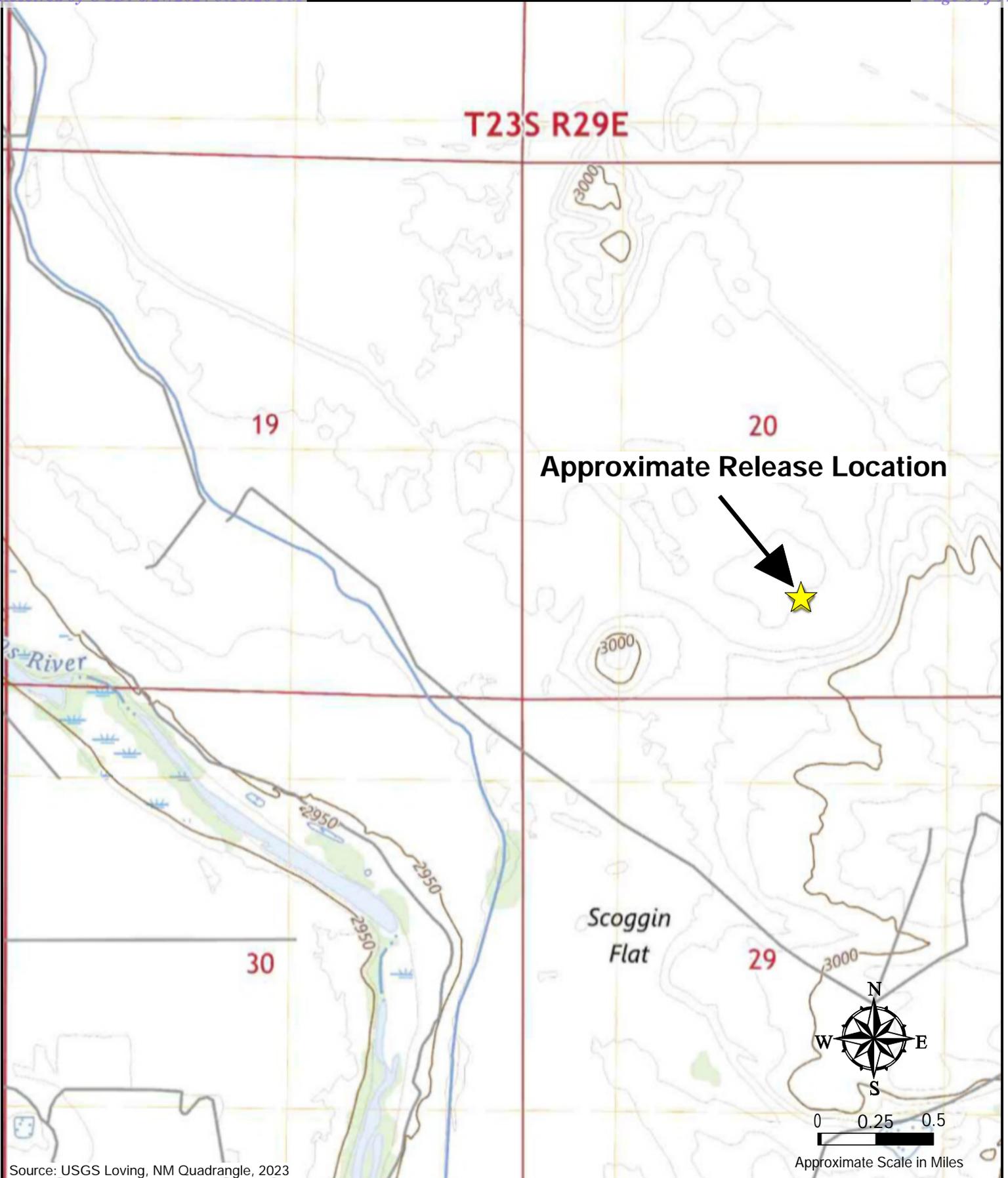
### Attachments

- Attachment 1 – Site Characterization Data
- Attachment 2 – Laboratory Analytical Data

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## FIGURES



Source: USGS Loving, NM Quadrangle, 2023

Approximate Scale in Miles

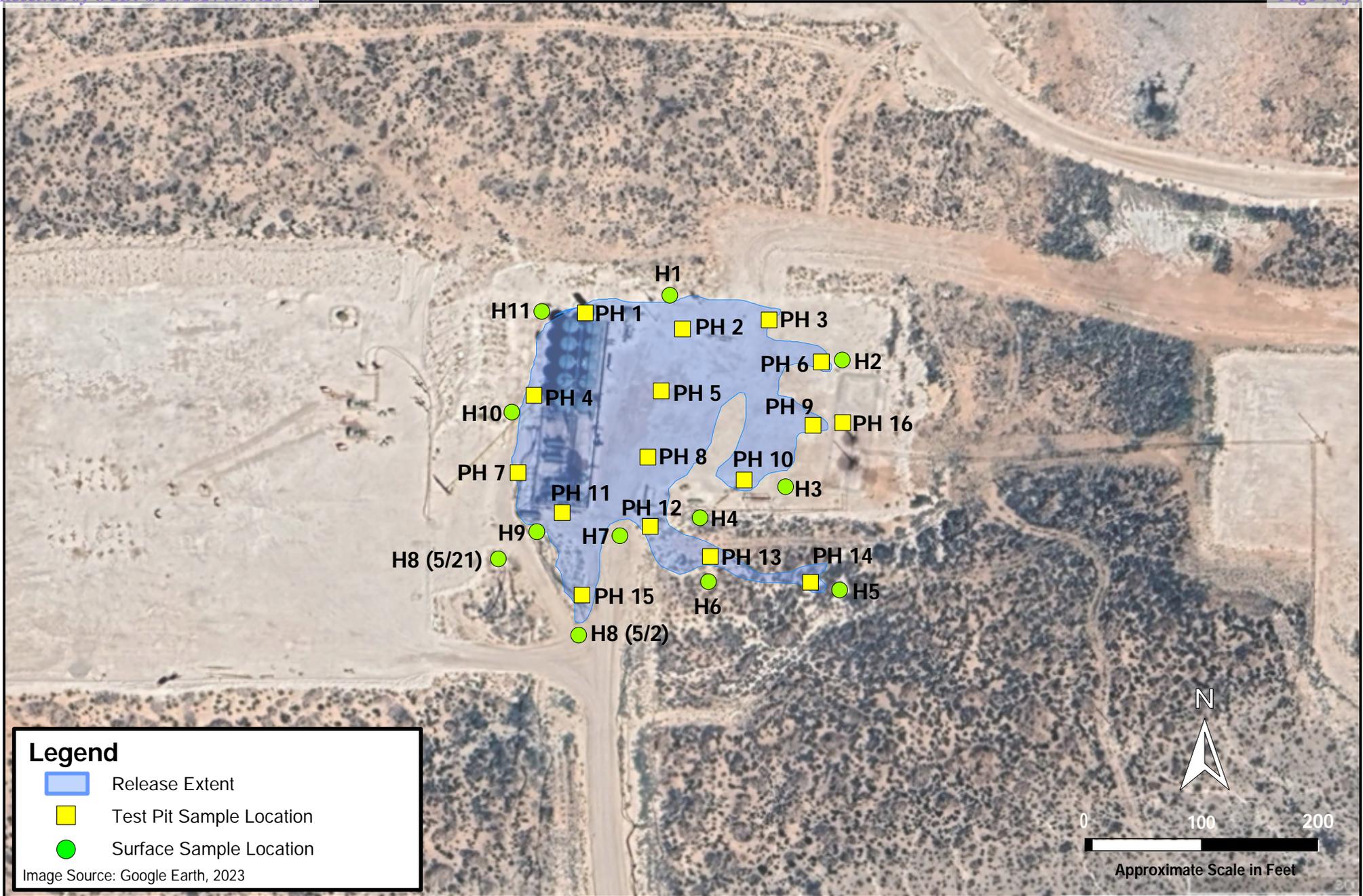


**BTA OIL PRODUCERS, LLC**  
 NAPP2411724780  
 32.285895°, -104.006467°  
 EDDY COUNTY, NEW MEXICO  
**HARROUN RANCH WEST FIRE**  
**SITE LOCATION MAP**

PROJECT NO: TBD  
 DATE: 05/08/2023  
 DESIGNED BY: CHT

**Figure**  
**1**

1500 CityWest Boulevard  
 Suite 1000  
 Houston, Texas 77042



**Legend**

- Release Extent
- Test Pit Sample Location
- Surface Sample Location

Image Source: Google Earth, 2023



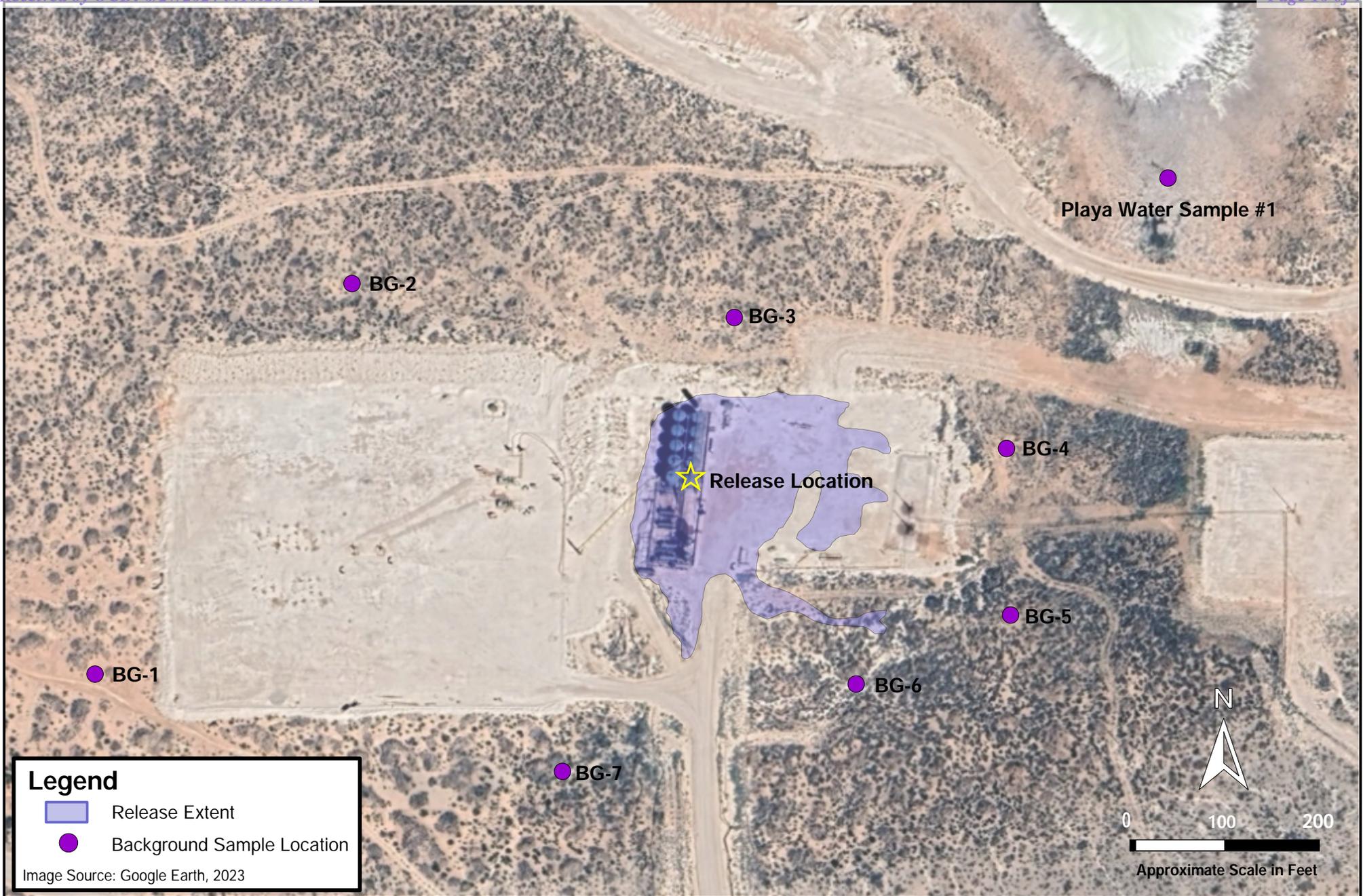
1500 CityWest Boulevard  
Suite 1000  
Houston, Texas 77042

**BTA OIL PRODUCERS, LLC**  
nAPP2411724780  
32.285895°, -104.006467°  
LEA COUNTY, NEW MEXICO

**HARROUND RANCH WEST FIRE  
APPROXIMATE RELEASE EXTENT AND SITE ASSESSMENT MAP**

PROJECT NO: 212C-MD-03474  
DATE: MAY 8, 2024  
DESIGNED BY: CHT

Figure No.  
**2**



**Legend**

- Release Extent
- Background Sample Location

Image Source: Google Earth, 2023

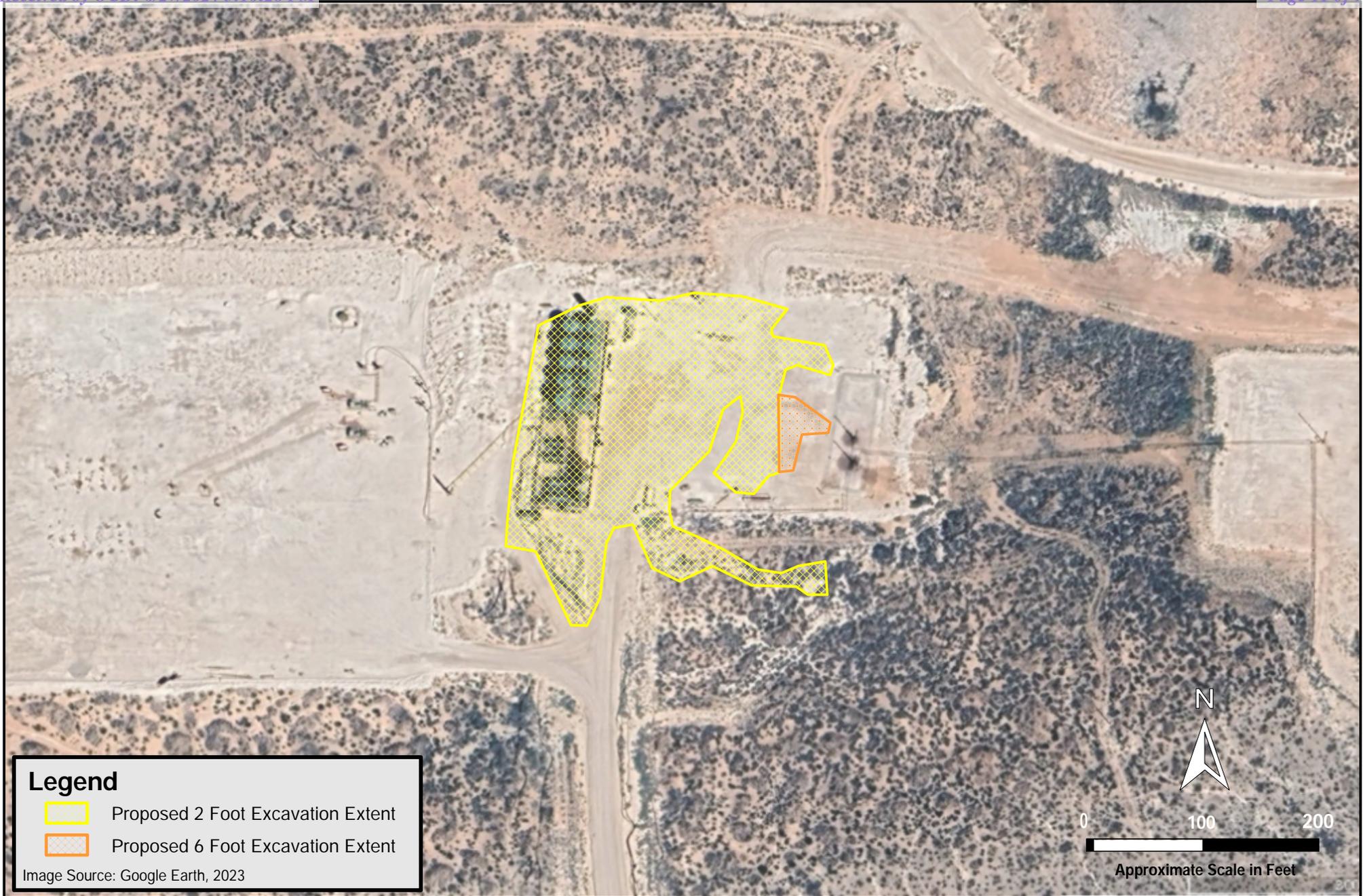


1500 CityWest Boulevard  
Suite 1000  
Houston, Texas 77042

**BTA OIL PRODUCERS, LLC**  
 nAPP2411724780  
 32.285895°, -104.006467°  
 LEA COUNTY, NEW MEXICO  
**HARROUN RANCH WEST FIRE**  
**BACKGROUND SAMPLE LOCATION MAP**

PROJECT NO: 212C-MD-03474  
 DATE: MAY 28, 2024  
 DESIGNED BY: CHT

Figure No.  
**3**



**Legend**

-  Proposed 2 Foot Excavation Extent
-  Proposed 6 Foot Excavation Extent

Image Source: Google Earth, 2023



Approximate Scale in Feet



1500 CityWest Boulevard  
Suite 1000  
Houston, Texas 77042

**BTA OIL PRODUCERS, LLC**  
 nAPP2411724780  
 32.285895°, -104.006467°  
 LEA COUNTY, NEW MEXICO  
**HARROUN RANCH WEST FIRE**  
**PROPOSED REMEDIATION EXTENTS**

PROJECT NO: 212C-MD-03474  
 DATE: May 28, 2024  
 DESIGNED BY: CHT

Figure No.  
**4**

Site Characterization and Remediation Work Plan  
BTA Oil Producers, LLC  
Harroun Ranch West Fire  
Incident ID# nAPP2411724780

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## TABLES



**TETRA TECH**

**TABLE 1**

**SOIL ASSESSMENT LOCATIONS  
 INCIDENT ID nAPP2411724780  
 BTA OIL PRODUCERS, LLC  
 HARROUN RANCH WEST FIRE  
 EDDY COUNTY, NEW MEXICO**

Boring ID	Date	Latitude	Longitude
H 1	5/2/2024	32.286109	-104.006241
H 2	5/2/2024	32.286059	-104.006032
H 3	5/2/2024	32.285842	-104.006017
H 4	5/2/2024	32.285572	-104.006117
H 5	5/2/2024	32.285345	-104.006038
H 6	5/2/2024	32.285345	-104.006038
H 7	5/2/2024	32.285392	-104.005908
H 8 (5/2)	5/2/2024	32.285288	-104.006379
H 8 (5/21)	5/2/2024	32.285288	-104.006379
H 9	5/2/2024	32.285343	-104.006389
H 10	5/2/2024	32.285728	-104.006523
H 11	5/2/2024	32.285987	-104.006564
PH 1	5/2/2024	32.286030	-104.006467
PH 2	5/2/2024	32.286035	-104.006290
PH 3	5/2/2024	32.286109	-104.006241
PH 4	5/2/2024	32.285755	-104.006096
PH 5	5/2/2024	32.286035	-104.006290
PH 6	5/2/2024	32.285755	-104.006096
PH 7	5/2/2024	32.285603	-104.006470
PH 8	5/2/2024	32.285696	-104.006298
PH 9	5/2/2024	32.285776	-104.005881
PH 10	5/2/2024	32.285708	-104.005975
PH 11	5/2/2024	32.285696	-104.006298
PH 12	5/2/2024	32.285457	-104.006206
PH 13	5/2/2024	32.285345	-104.006038
PH 15	5/2/2024	32.285355	-104.006297
PH 16	5/2/2024 & 5/21/2024	32.285822	-104.005563



**TETRA TECH** BACKGROUND ASSESSMENT LOCATIONS  
INCIDENT ID nAPP2411724780  
BTA OIL PRODUCERS, LLC  
HARROUN RANCH WEST FIRE  
EDDY COUNTY, NEW MEXICO

TABLE 2

Test Pit Locatoin	Date	Latitude	Longitude
Background BG-1	5/14/2024	32.286109	-104.006241
Background BG-2	5/14/2024	32.286059	-104.006032
Background BG-3	5/14/2024	32.285842	-104.006017
Background BG-4	5/14/2024	32.285572	-104.006117
Background BG-5	5/14/2024	32.285345	-104.006038
Background BG-6	5/14/2024	32.285345	-104.006038
Background BG-7	5/14/2024	32.285392	-104.005908



**TABLE 3  
SUMMARY OF ANALYTICAL RESULTS  
SOIL ASSESSMENT SAMPLING - INCIDENT NAPP241172478  
BTA OIL PRODUCERS, LLC  
HARROUN RANCH WEST BATTERY FIRE  
LEA COUNTY, NEW MEXICO**

Sample ID	Sample Date	Sample Depth feet bgs	Chloride <sup>1</sup> mg/kg Q		BTEX <sup>2</sup>										TPH <sup>3</sup>						
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO C <sub>6</sub> - C <sub>10</sub>		DRO > C <sub>10</sub> - C <sub>28</sub>		EXT DRO > C <sub>28</sub> - C <sub>36</sub>		Total TPH (GRO+DRO+EXT DRO) mg/kg
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
<b>Reclamation Requirements (19.15.29 NMAC)</b>			<b>3,080</b>		<b>10</b>							<b>50</b>							<b>100</b>		
H 1 0-6"	5/2/2024	0.0 - 0.5	1,880		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
H 2 0-6"	5/2/2024	0.0 - 0.5	432		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
H 3 0-6"	5/2/2024	0.0 - 0.5	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
H 4 0-6"	5/2/2024	0.0 - 0.5	2,040		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
H 5 0-6"	5/2/2024	0.0 - 0.5	1,010		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
H 6 0-6"	5/2/2024	0.0 - 0.5	1,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
H 7 0-6"	5/2/2024	0.0 - 0.5	3,160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
H 8 0-6" (5/2)	5/2/2024	0.0 - 0.5	1,540		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
H8 @ 0-6" (5/21)	5/21/2024	0.0 - 0.5	288		-		-		-		-		-		<49.9		<49.9		<49.9		-
H 9 0-6"	5/2/2024	0.0 - 0.5	3,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		141		<10.0		141
H 10 0-6"	5/2/2024	0.0 - 0.5	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
H 11 0-6"	5/2/2024	0.0 - 0.5	4,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
PH 1 4-6'	5/2/2024	4.0 - 6.0	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
PH 2 2-4'	5/2/2024	2.0 - 4.0	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
PH 3 2-4'	5/2/2024	2.0 - 4.0	6,560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
PH 4 4-6'	5/2/2024	4.0 - 6.0	2,360		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
PH 5 2-4'	5/2/2024	2.0 - 4.0	2,720		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
PH 6 2-4'	5/2/2024	2.0 - 4.0	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
PH 7 2-4'	5/2/2024	2.0 - 4.0	752		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
PH 8 2-4'	5/2/2024	2.0 - 4.0	304		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
PH 9 2-4'	5/2/2024	2.0 - 4.0	96		<0.050		<0.050		<0.050		<0.150		<0.300		<100		2,520		955		3,475
PH 10 2-4'	5/2/2024	2.0 - 4.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
PH 11 4-6'	5/2/2024	4.0 - 6.0	1,330		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
PH 12 4-6'	5/2/2024	4.0 - 6.0	1,250		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
PH 13 4-6'	5/2/2024	4.0 - 6.0	1,380		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
PH 14 4-6'	5/2/2024	4.0 - 6.0	2,240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
PH 15 4-6'	5/2/2024	4.0 - 6.0	1,490		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
PH 16 @ 0-6"	5/21/2024	0.0 - 0.5	350		-		-		-		-		-		<50.0		<50.0		<50.0		-
PH 16 2-4'	5/2/2024	2.0 - 4.0	816		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
PH 16 @ 2-4'	5/21/2024	2.0 - 4.0	411		-		-		-		-		-		<49.9		<49.9		<49.9		-

**NOTES:**

bgs: Below ground surface      GRO: Gasoline Range Organics      1: Method SM4500CI-B  
 mg/kg: Milligrams per kilogram      DRO: Diesel Range Organics      2: Method 8021B  
 TPH: Total Petroleum Hydrocarbons      EXT DRO: Oil Range Organics      3: Method 8015M

**Bold and highlighted values indicate exceedance of Reclamation Requirements (19.15.29 NMAC) or the established chloride background concentration.**

**TABLE 4**  
**SUMMARY OF ANALYTICAL RESULTS**  
**SOIL BACKGROUND ASSESSMENT SAMPLING - INCIDENT NAPP241172478**  
**BTA OIL PRODUCERS, LLC**  
**HARROUN RANCH WEST BATTERY FIRE**  
**LEA COUNTY, NEW MEXICO**

Sample ID	Sample Date	Sample Depth	Chloride <sup>1</sup>	
		feet bgs	mg/kg	Q
<b>Reclamation Requirements (19.15.29 NMAC)</b>			<b>600</b>	
BACKGROUND - BG 1 @ 4'	5/14/2024	4.0 - 4.5	3,280	
BACKGROUND - BG 2 @ 4'	5/14/2024	4.0 - 4.5	1,630	
BACKGROUND - BG 3 @ 4'	5/14/2024	4.0 - 4.5	1,960	
BACKGROUND - BG 4 @ 4'	5/14/2024	4.0 - 4.5	6,880	
BACKGROUND - BG 5 @ 4'	5/14/2024	4.0 - 4.5	4,800	
BACKGROUND - BG 6 @ 4'	5/14/2024	4.0 - 4.5	2,720	
BACKGROUND - BG 7 @ 4'	5/14/2024	4.0 - 4.5	288	

**NOTES:**

bgs: Below ground surface  
 mg/kg: Milligrams per kilogram  
 1: Method SM4500CI-B

**TABLE 5**  
**SUMMARY OF ANALYTICAL RESULTS**  
**SURFACE WATER BACKGROUND ASSESSMENT SAMPLING - INCIDENT NAPP241172478**  
**BTA OIL PRODUCERS, LLC**  
**HARROUN RANCH WEST BATTERY FIRE**  
**LEA COUNTY, NEW MEXICO**

Sample ID	Sample Date	Sample Depth feet below surface	Chloride <sup>1</sup>	
			mg/kg	Q
PLAYA WATER SAMPLE # 1	5/15/2024	0.0 - 1.0	232,000	

**NOTES:**

mg/L: Milligrams per kilogram

1: Method SM4500CI-B

Site Characterization and Remediation Work Plan  
BTA Oil Producers, LLC  
Harroun Ranch West Fire  
Incident ID# nAPP2411724780

June 25, 2024

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



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">C 02613</a>	CUB	ED		4	4	2	20	23S	29E	594203	3573176*	895	400		
<a href="#">C 03587 POD2</a>	CUB	ED		1	2	4	19	23S	29E	592213	3572706	1350	77	16	61
<a href="#">C 02721</a>	CUB	ED			2	3	21	23S	29E	594915	3572879*	1397	150		
<a href="#">C 03057 EXPLORE</a>	CUB	ED		4	1	1	21	23S	29E	594605	3573586*	1469	150		
<a href="#">C 02720</a>	CUB	ED			2	1	21	23S	29E	594911	3573690*	1766	150		
<a href="#">C 03587 POD1</a>	CUB	ED		1	4	3	29	23S	29E	593338	3570754	1815	99	44	55
<a href="#">C 02608</a>	CUB	ED		3	1	4	17	23S	29E	593598	3574387*	1829	400		
<a href="#">C 03059 EXPLORE</a>	CUB	ED		4	1	3	17	23S	29E	592993	3574378*	1905		65	
<a href="#">C 02182</a>	C	ED				4	30	23S	29E	592328	3571048*	1945	75	30	45

Average Depth to Water: **38 feet**  
 Minimum Depth: **16 feet**  
 Maximum Depth: **65 feet**

**Record Count:** 9

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 593555

**Northing (Y):** 3572557.6

**Radius:** 2000

\*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.

# National Flood Hazard Layer FIRMette



104°0'42"W 32°17'24"N



## Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
		Area of Undetermined Flood Hazard <i>Zone D</i>
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
OTHER FEATURES		Profile Baseline
		Hydrographic Feature

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



1:6,000

104°0'5"W 32°16'54"N

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **5/8/2024 at 11:38 AM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

## Eddy Area, New Mexico

### SM—Simona-Bippus complex, 0 to 5 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1w5x  
*Elevation:* 1,800 to 5,000 feet  
*Mean annual precipitation:* 8 to 24 inches  
*Mean annual air temperature:* 57 to 70 degrees F  
*Frost-free period:* 180 to 230 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Simona and similar soils:* 55 percent  
*Bippus and similar soils:* 30 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Simona

##### Setting

*Landform:* Plains, alluvial fans  
*Landform position (three-dimensional):* Rise  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear  
*Parent material:* Mixed alluvium and/or eolian sands

##### Typical profile

*H1 - 0 to 19 inches:* gravelly fine sandy loam  
*H2 - 19 to 23 inches:* indurated

##### Properties and qualities

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* 7 to 20 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 15 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water supply, 0 to 60 inches:* Very low (about 2.1 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* D

Map Unit Description: Simona-Bippus complex, 0 to 5 percent slopes---Eddy Area, New Mexico

Harroun Ranch West

*Ecological site:* R070BD002NM - Shallow Sandy  
*Hydric soil rating:* No

### Description of Bippus

#### Setting

*Landform:* Flood plains, alluvial fans  
*Landform position (three-dimensional):* Talf, rise  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear  
*Parent material:* Mixed alluvium

#### Typical profile

*H1 - 0 to 37 inches:* silty clay loam  
*H2 - 37 to 60 inches:* clay loam

#### Properties and qualities

*Slope:* 0 to 5 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Very low  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.60 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* Occasional  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 40 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water supply, 0 to 60 inches:* Moderate (about 8.7 inches)

#### Interpretive groups

*Land capability classification (irrigated):* 2e  
*Land capability classification (nonirrigated):* 3e  
*Hydrologic Soil Group:* B  
*Ecological site:* R070BC017NM - Bottomland  
*Hydric soil rating:* No

### Minor Components

#### Simona

*Percent of map unit:* 8 percent  
*Ecological site:* R070BD002NM - Shallow Sandy  
*Hydric soil rating:* No

#### Bippus

*Percent of map unit:* 7 percent  
*Ecological site:* R070BC017NM - Bottomland

Map Unit Description: Simona-Bippus complex, 0 to 5 percent slopes---Eddy Area, New Mexico

Harroun Ranch West

---

*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Eddy Area, New Mexico  
Survey Area Data: Version 19, Sep 7, 2023

Soil Map—Eddy Area, New Mexico  
(Harroun Ranch West)



Map Scale: 1:2,560 if printed on A landscape (11" x 8.5") sheet.

0 35 70 140 210 Meters

0 100 200 400 600 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84



Soil Map—Eddy Area, New Mexico  
(Harroun Ranch West)

**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: Eddy Area, New Mexico  
Survey Area Data: Version 19, Sep 7, 2023

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

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

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

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
An	Arno silty clay loam, 0 to 1 percent slopes	0.0	0.1%
SM	Simona-Bippus complex, 0 to 5 percent slopes	13.3	56.5%
Up	Upton soils, 0 to 1 percent slopes	10.2	43.4%
<b>Totals for Area of Interest</b>		<b>23.6</b>	<b>100.0%</b>

Site Characterization and Remediation Work Plan  
BTA Oil Producers, LLC  
Harroun Ranch West Fire  
Incident ID# nAPP2411724780

June 25, 2024

## **ATTACHMENT 2 – LABORATORY ANALYTICAL DATA**



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

---

May 03, 2024

RAY RAMOS

BTA Oil Producers

104 South Pecos

Midland, TX 79701

RE: HARROUN WEST BATTERY - FIRE

Enclosed are the results of analyses for samples received by the laboratory on 05/02/24 16:37.

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

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: PH 1 4-6' (H242389-01)**

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	05/02/2024	ND	2.03	101	2.00	1.16	
Toluene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.944	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.05	103	2.00	0.930	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.95	99.2	6.00	0.677	
Total BTEX	<0.300	0.300	05/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/03/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	213	106	200	8.10	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	199	99.3	200	6.45	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: PH 2 2-4' (H242389-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	1.16	
Toluene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.944	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.05	103	2.00	0.930	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.95	99.2	6.00	0.677	
Total BTEX	<0.300	0.300	05/02/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/03/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	213	106	200	8.10	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	199	99.3	200	6.45	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: PH 3 2-4' (H242389-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	1.16	
Toluene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.944	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.05	103	2.00	0.930	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.95	99.2	6.00	0.677	
Total BTEX	<0.300	0.300	05/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6560	16.0	05/03/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	213	106	200	8.10	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	199	99.3	200	6.45	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: PH 4 4-6' (H242389-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	1.16	
Toluene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.944	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.05	103	2.00	0.930	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.95	99.2	6.00	0.677	
Total BTEX	<0.300	0.300	05/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	05/03/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	213	106	200	8.10	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	199	99.3	200	6.45	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: PH 5 2-4' (H242389-05)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	1.16	
Toluene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.944	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.05	103	2.00	0.930	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.95	99.2	6.00	0.677	
Total BTEX	<0.300	0.300	05/02/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2720</b>	16.0	05/03/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	213	106	200	8.10	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	199	99.3	200	6.45	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: PH 6 2-4' (H242389-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	2.03	101	2.00	1.16	
Toluene*	<0.050	0.050	05/03/2024	ND	2.04	102	2.00	0.944	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.05	103	2.00	0.930	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	5.95	99.2	6.00	0.677	
Total BTEX	<0.300	0.300	05/03/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/03/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	213	106	200	8.10	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	199	99.3	200	6.45	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: PH 7 2-4' (H242389-07)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	05/02/2024	ND	2.19	110	2.00	2.11	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.17	109	2.00	2.48	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.57	109	6.00	2.12	
Total BTEX	<0.300	0.300	05/02/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	05/03/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	213	106	200	8.10	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	199	99.3	200	6.45	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: PH 8 2-4' (H242389-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	05/02/2024	ND	2.19	110	2.00	2.11	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.17	109	2.00	2.48	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.57	109	6.00	2.12	
Total BTEX	<0.300	0.300	05/02/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/03/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	213	106	200	8.10	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	199	99.3	200	6.45	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: PH 9 2-4' (H242389-09)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	05/03/2024	ND	2.19	110	2.00	2.11	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.17	109	2.00	2.48	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.57	109	6.00	2.12	
Total BTEX	<0.300	0.300	05/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/03/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	05/03/2024	ND	213	106	200	8.10	
DRO >C10-C28*	2520	100	05/03/2024	ND	199	99.3	200	6.45	
EXT DRO >C28-C36	955	100	05/03/2024	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: PH 10 2-4' (H242389-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	05/02/2024	ND	2.19	110	2.00	2.11	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.17	109	2.00	2.48	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.57	109	6.00	2.12	
Total BTEX	<0.300	0.300	05/02/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/03/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: H 1 0-6" (H242389-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	05/02/2024	ND	2.19	110	2.00	2.11	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.17	109	2.00	2.48	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.57	109	6.00	2.12	
Total BTEX	<0.300	0.300	05/02/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	05/03/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: H 2 0-6" (H242389-12)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	05/02/2024	ND	2.19	110	2.00	2.11	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.17	109	2.00	2.48	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.57	109	6.00	2.12	
Total BTEX	<0.300	0.300	05/02/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	05/03/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: H 3 0-6" (H242389-13)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	05/02/2024	ND	2.19	110	2.00	2.11	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.17	109	2.00	2.48	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.57	109	6.00	2.12	
Total BTEX	<0.300	0.300	05/02/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/03/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: H 4 0-6" (H242389-14)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	05/02/2024	ND	2.19	110	2.00	2.11	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.17	109	2.00	2.48	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.57	109	6.00	2.12	
Total BTEX	<0.300	0.300	05/02/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	05/03/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: H 5 0-6" (H242389-15)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	05/02/2024	ND	2.19	110	2.00	2.11	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.17	109	2.00	2.48	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.57	109	6.00	2.12	
Total BTEX	<0.300	0.300	05/02/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	05/03/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: H 6 0-6" (H242389-16)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	05/02/2024	ND	2.19	110	2.00	2.11	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.17	109	2.00	2.48	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.57	109	6.00	2.12	
Total BTEX	<0.300	0.300	05/02/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	05/03/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: H 7 0-6" (H242389-17)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	05/02/2024	ND	2.19	110	2.00	2.11	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.17	109	2.00	2.48	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.57	109	6.00	2.12	
Total BTEX	<0.300	0.300	05/02/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	05/03/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: H 8 0-6" (H242389-18)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	05/02/2024	ND	2.19	110	2.00	2.11	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.17	109	2.00	2.48	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.57	109	6.00	2.12	
Total BTEX	<0.300	0.300	05/02/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	05/03/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: H 9 0-6" (H242389-19)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	05/03/2024	ND	2.19	110	2.00	2.11	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.17	109	2.00	2.48	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.57	109	6.00	2.12	
Total BTEX	<0.300	0.300	05/03/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3680</b>	16.0	05/03/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
<b>DRO &gt;C10-C28*</b>	<b>141</b>	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: H 10 0-6" (H242389-20)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	05/03/2024	ND	2.19	110	2.00	2.11	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.17	109	2.00	2.48	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.57	109	6.00	2.12	
Total BTEX	<0.300	0.300	05/03/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/03/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: H 11 0-6" (H242389-21)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	05/03/2024	ND	2.19	110	2.00	2.11	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.17	109	2.00	2.48	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.57	109	6.00	2.12	
Total BTEX	<0.300	0.300	05/03/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	05/03/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: PH 11 4-6' (H242389-22)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	05/03/2024	ND	2.19	110	2.00	2.11	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.17	109	2.00	2.48	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.57	109	6.00	2.12	
Total BTEX	<0.300	0.300	05/03/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	05/03/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: PH 12 4-6' (H242389-23)**

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	05/03/2024	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	05/03/2024	ND	2.19	110	2.00	2.11	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.17	109	2.00	2.48	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.57	109	6.00	2.12	
Total BTEX	<0.300	0.300	05/03/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	05/03/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: PH 13 4-6' (H242389-24)**

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	05/03/2024	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	05/03/2024	ND	2.19	110	2.00	2.11	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.17	109	2.00	2.48	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.57	109	6.00	2.12	
Total BTEX	<0.300	0.300	05/03/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	05/03/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: PH 14 4-6' (H242389-25)**

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	05/03/2024	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	05/03/2024	ND	2.19	110	2.00	2.11	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.17	109	2.00	2.48	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.57	109	6.00	2.12	
Total BTEX	<0.300	0.300	05/03/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	05/03/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: PH 15 4-6' (H242389-26)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	05/03/2024	ND	2.19	110	2.00	2.11	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.17	109	2.00	2.48	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.57	109	6.00	2.12	
Total BTEX	<0.300	0.300	05/03/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	05/03/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

**Sample ID: PH 16 2-4' (H242389-27)**

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

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	05/03/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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**Notes and Definitions**

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

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>BTA O'P Producers</b>		P.O. #:		<b>BILL TO</b>		ANALYSIS REQUEST	
Project Manager: <b>Ray Ramos</b>		Company: <b>BTA</b>					
Address: <b>101 S Pecos St</b>		Attn:					
City: <b>Midland</b>		Address:					
Phone #: <b>(432) 313-1288</b>		City:					
Project #: <b>Incident 198</b>		State:					
Project Name: <b>Meram West Barrier - Fire</b>		Zip:					
Project Location: <b>Loving, NM</b>		Phone #:					
Sampler Name: <b>Ray Ramos</b>		Fax #:					
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING	
Lab I.D. <b>H342389</b>		Sample I.D.		DATE		TIME	
1 <b>PH1 4-6'</b>		(G)RAB OR (C)OMP		5/2		8:30	
2 <b>PH2 2-4'</b>		# CONTAINERS		5/2		8:56	
3 <b>PH3 2-4'</b>		GROUNDWATER		5/2		9:24	
4 <b>PH4 4-6'</b>		WASTEWATER		5/2		9:49	
5 <b>PH5 2-4'</b>		SOIL		5/2		10:17	
6 <b>PH6 2-4'</b>		OIL		5/2		10:39	
7 <b>PH7 2-4'</b>		SLUDGE		5/2		10:55	
8 <b>PH8 2-4'</b>		OTHER:		5/2		11:22	
9 <b>PH9 2-4'</b>		ACID/BASE:		5/2		12:00	
10 <b>PH10 2-4'</b>		ICE / COOL		5/2		12:57	
		OTHER:					

PLEASE NOTE: Safety and/or Hazmat: Cardholder's safety and client's facilities remain the responsibility of the client. Cardholder shall be liable for any damage to the amount paid by the client for the service. All clients including those for negligence and any other cause whatsoever shall be deemed to have 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. "Noting out of related to the performance of services hereunder by Cardinal, regardless of whether such claim is based on any of the above stated reasons or otherwise."

Relinquished By: *[Signature]* Date: **5-2-24** Received By: *[Signature]* Date: **5-2-24**

Relinquished 5y: *[Signature]* Date: **16:37** Received By: *[Signature]* Date: **16:37**

Delivered By: (Circle One) Observed Temp. °C **-0.8** Sample Condition Cool Intact  Yes  No

Sampler - UPS - Bus - Other: Corrected Temp. °C **2.0** Checked By: *[Signature]* (Initials)

Turnaround Time: Standard  Rush  Bacteria (only)  Sample Condition Cool Intact  Yes  No

Thermometer ID #140 **47925** Corrected Temp. °C

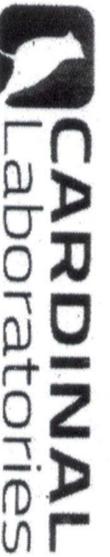
Remarks: **Chlorides**  
**BTEX 8021**  
**TPH 8015**

Vertical Result:  Yes  No Add'l Phone #:

All Results are emailed. Please provide Email address:

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





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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: <b>BTX O'1 Producers</b> Project Manager: <b>Ray Ramos</b> Address: <b>101 S Peas St</b> City: <b>Midland</b> State: <b>TX</b> Zip: <b>79701</b> Phone #: <b>(432) 313-1288</b> Fax #: _____ Project #: <b>Incident 198</b> Project Owner: <b>Ray Ramos</b> Project Name: <b>Merrow West Barrier - Fire</b> Project Location: <b>Loving, NM</b> Sampler Name: <b>Ray Ramos</b> FOR LAB USE ONLY		<b>BILL TO</b> P.O. #: _____ Company: <b>BTX</b> Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. <b>H243389</b> Sample I.D. _____		MATRIX: <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input checked="" type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE OTHER: _____ PRESERV: <input checked="" type="checkbox"/> ACID/BASE: _____ <input type="checkbox"/> ICE / COOL <input type="checkbox"/> OTHER: _____	
PLEASE NOTE: Liability and/or Damages Cardnet'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 analysis. 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 interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors. *Noting out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based on... **any of the above stated reasons or otherwise.		DATE TIME: <b>6/27 8:15</b> DATE TIME: _____	
Relinquished By: <b>[Signature]</b> Date: <b>5-2-24</b> Time: <b>1637</b> Received By: <b>[Signature]</b> Date: _____ Time: _____		Vertical Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Advt Phone #: _____ All Results are emailed. Please provide Email address: _____ REMARKS: _____	
Delivered By: (Circle One) <input checked="" type="checkbox"/> UPS <input type="checkbox"/> Bus <input type="checkbox"/> Other Observed Temp. °C: <b>0.8</b> Corrected Temp. °C: _____ Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: <b>[Signature]</b> (Initials)		Turnaround Time: _____ Standard Rush <input type="checkbox"/> <input checked="" type="checkbox"/> <b>24 HRS</b> Bacteria (only) Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C: _____ Corrected Temp. °C: _____	



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

---

May 16, 2024

RAY RAMOS

BTA Oil Producers

104 South Pecos

Midland, TX 79701

RE: HARROUN WEST BATTERY - FIRE

Enclosed are the results of analyses for samples received by the laboratory on 05/15/24 8:40.

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/15/2024	Sampling Date:	05/15/2024
Reported:	05/16/2024	Sampling Type:	Water
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

**Sample ID: PLAYA WATER SAMPLE # 1 (H242656-01)**

Chloride, SM4500Cl-B (Water)		mg/L	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride*</b>	<b>232000</b>	4.00	05/15/2024	ND	104	104	100	0.00	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Notes and Definitions**

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

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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: **BTA Oil Producers**

Project Manager: **Kay Ramos**

Address: **154 S Recos St**

City: **Midland** State: **Tx** Zip: **79701**

Phone #: **(432) 313-1288** Fax #:

Project #: **Incident 148** Project Owner: **Kay Ramos**

Project Name: **Marathon West Barrier - Five**

Project Location: **Loving, NM**

Sampler Name: **Kay Ramos**

**BILL TO**

P.O. #: **BTA**

Company: **BTA**

Address:

City:

State: Zip:

Phone #:

Fax #:

**ANALYSIS REQUEST**

FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	ANALYSIS REQUEST
	H242054	Playa Water Sample #1		X	GROUNDWATER	ICE / COOL <input checked="" type="checkbox"/>		5/15/21	0700	Chlorides
		<del>Playa Water Sample #2</del>								

PLEASE NOTE: Liability and/or damages Cardinal's liability and client's exclusive remedy for any claim arising hereby 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. Nothing in this agreement shall be construed to limit the performance of services hereunder by Cardinal, regardless of whether such claim is based on any of the above stated reasons or otherwise.

Relinquished By: **[Signature]** Date: **8:40**

Received By: **[Signature]** Date: **5/15/21**

Relinquished By: **[Signature]** Date: **5/15/21**

Received By: **[Signature]** Date: **5/15/21**

Time:

Delivered By: (Circle One) Observed Temp. °C **14.0**

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

Sample Condition: Cool Intact  Yes  No

Checked By: **[Signature]**

Turnaround Time: Standard  Rush

Bacteria (only) Sample Condition: Cool Intact  Yes  No

Observed Temp. °C **14.0** Corrected Temp. °C

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



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

---

May 20, 2024

RAY RAMOS

BTA Oil Producers

104 South Pecos

Midland, TX 79701

RE: HARROUN WEST BATTERY - FIRE

Enclosed are the results of analyses for samples received by the laboratory on 05/15/24 8:46.

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

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/15/2024	Sampling Date:	05/14/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

**Sample ID: BACKGROUND - BG 1 @ 4' (H242657-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	05/16/2024	ND	416	104	400	7.41	

**Sample ID: BACKGROUND - BG 2 @ 4' (H242657-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1630	16.0	05/16/2024	ND	416	104	400	7.41	

**Sample ID: BACKGROUND - BG 3 @ 4' (H242657-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	05/16/2024	ND	416	104	400	7.41	

**Sample ID: BACKGROUND - BG 4 @ 4' (H242657-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6880	16.0	05/16/2024	ND	416	104	400	7.41	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BTA Oil Producers  
 RAY RAMOS  
 104 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/15/2024	Sampling Date:	05/14/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

**Sample ID: BACKGROUND - BG 5 @ 4' (H242657-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	05/16/2024	ND	416	104	400	7.41	

**Sample ID: BACKGROUND - BG 6 @ 4' (H242657-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	05/16/2024	ND	416	104	400	7.41	

**Sample ID: BACKGROUND - BG 7 @ 4' (H242657-07)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/16/2024	ND	416	104	400	7.41	

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Celey D. Keene, Lab Director/Quality Manager



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**Notes and Definitions**

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

Cardinal Laboratories

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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**

<b>Company Name:</b> <i>BTA Oil Producers</i> <b>Project Manager:</b> <i>Roy Lemos</i> <b>Address:</b> <i>100 S Peor St</i> <b>City:</b> <i>Midland</i> <b>State:</b> <i>TX</i> <b>Zip:</b> <i>79701</i> <b>Phone #:</b> <i>(432) 215-1288</i> <b>Fax #:</b> _____ <b>Project #:</b> <i>Incident 148</i> <b>Project Owner:</b> <i>Roy Lemos</i> <b>Project Name:</b> <i>Herrera West Battery - Fine</i> <b>Project Location:</b> <i>Spring, TX</i> <b>Sampler Name:</b> <i>Roy Lemos</i>		<b>P.O. #:</b> _____ <b>Company:</b> <i>BTA</i> <b>Attn:</b> _____ <b>Address:</b> _____ <b>City:</b> _____ <b>State:</b> _____ <b>Zip:</b> _____ <b>Phone #:</b> _____ <b>Fax #:</b> _____	
<b>FOR LAB USE ONLY</b>		<b>MATRIX</b> (G)RAB OR (C)OMP. _____ # CONTAINERS _____ GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ ICE / COOL <input checked="" type="checkbox"/> _____ OTHER: _____	
<b>Lab I.D.</b> <i>H21205</i>		<b>PREPARE</b> _____ <b>SAMPLING</b> _____	
<b>Sample I.D.</b> <i>Background - B61 @ 1'</i> <i>Background - B62 @ 1'</i> <i>Background - B63 @ 1'</i> <i>Background - B64 @ 1'</i> <i>Background - B65 @ 1'</i> <i>Background - B66 @ 1'</i> <i>Background - B67 @ 1'</i>		<b>DATE</b> <i>5/14</i> <b>TIME</b> <i>8:30</i> <i>8:58</i> <i>9:37</i> <i>10:00</i> <i>10:28</i> <i>11:00</i> <i>11:49</i>	
PLEASE NOTE: Liability and Damages. Cardinal's liability and clients' 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 clients, its subsidiaries, affiliates or employees. This limitation shall not apply to claims for personal injury, death or related to the performance of services rendered by Cardinal, regardless of whether such claim is based on any of the above stated reasons or otherwise.		<b>ANALYSIS REQUEST</b>	
<b>Relinquished By:</b> <i>[Signature]</i> <b>Relinquished By:</b> <i>[Signature]</i>		<b>REMARKS:</b>	
<b>Delivered By:</b> (Circle One) Sampler - UPS - Bus - Other: _____		<b>Observed Temp. °C</b> <i>14.0</i> <b>Corrected Temp. °C</b> _____	
<b>Sample Condition</b> Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Bacteria (only) Sample Condition <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Checked By:</b> <i>[Signature]</i> <b>Standard</b> <i>Rush</i> <input checked="" type="checkbox"/> <b>Add'l Phone #:</b> _____ Thermometer ID #140 <input type="checkbox"/> <b>Bacteria (only) Sample Condition</b> <input type="checkbox"/> Yes <input type="checkbox"/> No Correction Factor 0°C <input type="checkbox"/> <b>Observed Temp. °C</b> _____ <input type="checkbox"/> <b>Corrected Temp. °C</b> _____	

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



Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Ray Ramos  
 BTA Oil Producers  
 104 S. Pecos  
 Midland, Texas 79701  
 Generated 5/23/2024 4:51:13 PM

## JOB DESCRIPTION

Harroun West Fire - Incident 148  
 Loving NM

## JOB NUMBER

880-43796-1

Eurofins Midland  
 1211 W. Florida Ave  
 Midland TX 79701



# Eurofins Midland

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



Generated  
5/23/2024 4:51:13 PM

Authorized for release by  
Jessica Kramer, Project Manager  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440

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Client: BTA Oil Producers  
Project/Site: Harroun West Fire - Incident 148

Laboratory Job ID: 880-43796-1  
SDG: Loving NM

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## Definitions/Glossary

Client: BTA Oil Producers  
Project/Site: Harroun West Fire - Incident 148

Job ID: 880-43796-1  
SDG: Loving NM

## Qualifiers

## GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: BTA Oil Producers  
Project: Harroun West Fire - Incident 148

Job ID: 880-43796-1

**Job ID: 880-43796-1**

**Eurofins Midland**

## Job Narrative 880-43796-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 5/22/2024 1:18 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°C.

### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH 16 @ 0-6" (880-43796-1), PH 16 @ 2-4' (880-43796-2), PH 16 @ 4-6' (880-43796-3) and H8 @ 0-6" (880-43796-4).

### Diesel Range Organics

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: PH 16 @ 0-6" (880-43796-1), PH 16 @ 2-4' (880-43796-2) and PH 16 @ 4-6' (880-43796-3). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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### Client Sample Results

Client: BTA Oil Producers  
 Project/Site: Harroun West Fire - Incident 148

Job ID: 880-43796-1  
 SDG: Loving NM

**Client Sample ID: PH 16 @ 0-6"**

**Lab Sample ID: 880-43796-1**

Date Collected: 05/21/24 13:00

Matrix: Solid

Date Received: 05/22/24 13:18

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/22/24 17:59	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/21/24 16:20	05/22/24 17:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/21/24 16:20	05/22/24 17:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/21/24 16:20	05/22/24 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				05/21/24 16:20	05/22/24 17:59	1
o-Terphenyl	144	S1+	70 - 130				05/21/24 16:20	05/22/24 17:59	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	350		5.05		mg/Kg			05/23/24 13:11	1

**Client Sample ID: PH 16 @ 2-4'**

**Lab Sample ID: 880-43796-2**

Date Collected: 05/21/24 13:15

Matrix: Solid

Date Received: 05/22/24 13:18

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/22/24 18:20	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/21/24 16:20	05/22/24 18:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/21/24 16:20	05/22/24 18:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/21/24 16:20	05/22/24 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130				05/21/24 16:20	05/22/24 18:20	1
o-Terphenyl	155	S1+	70 - 130				05/21/24 16:20	05/22/24 18:20	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	411		4.98		mg/Kg			05/23/24 13:17	1

**Client Sample ID: PH 16 @ 4-6'**

**Lab Sample ID: 880-43796-3**

Date Collected: 05/21/24 13:30

Matrix: Solid

Date Received: 05/22/24 13:18

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/22/24 18:41	1

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### Client Sample Results

Client: BTA Oil Producers  
 Project/Site: Harroun West Fire - Incident 148

Job ID: 880-43796-1  
 SDG: Loving NM

**Client Sample ID: PH 16 @ 4-6'**

**Lab Sample ID: 880-43796-3**

Date Collected: 05/21/24 13:30

Matrix: Solid

Date Received: 05/22/24 13:18

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/21/24 16:20	05/22/24 18:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/21/24 16:20	05/22/24 18:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/21/24 16:20	05/22/24 18:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130				05/21/24 16:20	05/22/24 18:41	1
o-Terphenyl	164	S1+	70 - 130				05/21/24 16:20	05/22/24 18:41	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	288		5.02		mg/Kg			05/23/24 13:22	1

**Client Sample ID: H8 @ 0-6"**

**Lab Sample ID: 880-43796-4**

Date Collected: 05/21/24 14:00

Matrix: Solid

Date Received: 05/22/24 13:18

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	311		4.99		mg/Kg			05/23/24 13:27	1

### Surrogate Summary

Client: BTA Oil Producers  
Project/Site: Harroun West Fire - Incident 148

Job ID: 880-43796-1  
SDG: Loving NM

**Method: 8015B NM - Diesel Range Organics (DRO) (GC)**

**Matrix: Solid**

**Prep Type: Total/NA**

**Percent Surrogate Recovery (Acceptance Limits)**

Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
880-43796-1	PH 16 @ 0-6"	127	144 S1+
880-43796-2	PH 16 @ 2-4'	138 S1+	155 S1+
880-43796-3	PH 16 @ 4-6'	145 S1+	164 S1+
LCS 880-81231/2-A	Lab Control Sample	99	89
LCS 880-81231/3-A	Lab Control Sample Dup	100	97
MB 880-81231/1-A	Method Blank	111	119

**Surrogate Legend**

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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### QC Sample Results

Client: BTA Oil Producers  
 Project/Site: Harroun West Fire - Incident 148

Job ID: 880-43796-1  
 SDG: Loving NM

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-81231/1-A  
 Matrix: Solid  
 Analysis Batch: 81242

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 81231

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/21/24 16:20	05/22/24 15:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/21/24 16:20	05/22/24 15:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/21/24 16:20	05/22/24 15:55	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	111		70 - 130	05/21/24 16:20	05/22/24 15:55	1
o-Terphenyl	119		70 - 130	05/21/24 16:20	05/22/24 15:55	1

Lab Sample ID: LCS 880-81231/2-A  
 Matrix: Solid  
 Analysis Batch: 81242

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 81231

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	862.6		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	829.6		mg/Kg		83	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	99		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: LCSD 880-81231/3-A  
 Matrix: Solid  
 Analysis Batch: 81242

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 81231

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	914.3		mg/Kg		91	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	916.4		mg/Kg		92	70 - 130	10	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1-Chlorooctane	100		70 - 130
o-Terphenyl	97		70 - 130

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-81379/1-A  
 Matrix: Solid  
 Analysis Batch: 81385

Client Sample ID: Method Blank  
 Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<5.00	U	5.00		mg/Kg			05/23/24 12:06	1

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### QC Sample Results

Client: BTA Oil Producers  
 Project/Site: Harroun West Fire - Incident 148

Job ID: 880-43796-1  
 SDG: Loving NM

**Method: 300.0 - Anions, Ion Chromatography (Continued)**

Lab Sample ID: LCS 880-81379/2-A  
 Matrix: Solid  
 Analysis Batch: 81385

Client Sample ID: Lab Control Sample  
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.8		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-81379/3-A  
 Matrix: Solid  
 Analysis Batch: 81385

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	251.7		mg/Kg		101	90 - 110	1	20

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### QC Association Summary

Client: BTA Oil Producers  
 Project/Site: Harroun West Fire - Incident 148

Job ID: 880-43796-1  
 SDG: Loving NM

#### GC Semi VOA

##### Prep Batch: 81231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43796-1	PH 16 @ 0-6"	Total/NA	Solid	8015NM Prep	
880-43796-2	PH 16 @ 2-4'	Total/NA	Solid	8015NM Prep	
880-43796-3	PH 16 @ 4-6'	Total/NA	Solid	8015NM Prep	
MB 880-81231/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-81231/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-81231/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

##### Analysis Batch: 81242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43796-1	PH 16 @ 0-6"	Total/NA	Solid	8015B NM	81231
880-43796-2	PH 16 @ 2-4'	Total/NA	Solid	8015B NM	81231
880-43796-3	PH 16 @ 4-6'	Total/NA	Solid	8015B NM	81231
MB 880-81231/1-A	Method Blank	Total/NA	Solid	8015B NM	81231
LCS 880-81231/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	81231
LCSD 880-81231/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	81231

##### Analysis Batch: 81433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43796-1	PH 16 @ 0-6"	Total/NA	Solid	8015 NM	
880-43796-2	PH 16 @ 2-4'	Total/NA	Solid	8015 NM	
880-43796-3	PH 16 @ 4-6'	Total/NA	Solid	8015 NM	

#### HPLC/IC

##### Leach Batch: 81379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43796-1	PH 16 @ 0-6"	Soluble	Solid	DI Leach	
880-43796-2	PH 16 @ 2-4'	Soluble	Solid	DI Leach	
880-43796-3	PH 16 @ 4-6'	Soluble	Solid	DI Leach	
880-43796-4	H8 @ 0-6"	Soluble	Solid	DI Leach	
MB 880-81379/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-81379/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-81379/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

##### Analysis Batch: 81385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43796-1	PH 16 @ 0-6"	Soluble	Solid	300.0	81379
880-43796-2	PH 16 @ 2-4'	Soluble	Solid	300.0	81379
880-43796-3	PH 16 @ 4-6'	Soluble	Solid	300.0	81379
880-43796-4	H8 @ 0-6"	Soluble	Solid	300.0	81379
MB 880-81379/1-A	Method Blank	Soluble	Solid	300.0	81379
LCS 880-81379/2-A	Lab Control Sample	Soluble	Solid	300.0	81379
LCSD 880-81379/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	81379

### Lab Chronicle

Client: BTA Oil Producers  
 Project/Site: Harroun West Fire - Incident 148

Job ID: 880-43796-1  
 SDG: Loving NM

**Client Sample ID: PH 16 @ 0-6"**

**Lab Sample ID: 880-43796-1**

Date Collected: 05/21/24 13:00

Matrix: Solid

Date Received: 05/22/24 13:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			81433	05/22/24 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	81231	05/21/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	81242	05/22/24 17:59	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	81379	05/23/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	81385	05/23/24 13:11	SMC	EET MID

**Client Sample ID: PH 16 @ 2-4'**

**Lab Sample ID: 880-43796-2**

Date Collected: 05/21/24 13:15

Matrix: Solid

Date Received: 05/22/24 13:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			81433	05/22/24 18:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	81231	05/21/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	81242	05/22/24 18:20	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	81379	05/23/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	81385	05/23/24 13:17	SMC	EET MID

**Client Sample ID: PH 16 @ 4-6'**

**Lab Sample ID: 880-43796-3**

Date Collected: 05/21/24 13:30

Matrix: Solid

Date Received: 05/22/24 13:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			81433	05/22/24 18:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	81231	05/21/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	81242	05/22/24 18:41	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	81379	05/23/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	81385	05/23/24 13:22	SMC	EET MID

**Client Sample ID: H8 @ 0-6"**

**Lab Sample ID: 880-43796-4**

Date Collected: 05/21/24 14:00

Matrix: Solid

Date Received: 05/22/24 13:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	81379	05/23/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	81385	05/23/24 13:27	SMC	EET MID

**Laboratory References:**

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

### Accreditation/Certification Summary

Client: BTA Oil Producers  
Project/Site: Harroun West Fire - Incident 148

Job ID: 880-43796-1  
SDG: Loving NM

#### Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH

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### Method Summary

Client: BTA Oil Producers  
Project/Site: Harroun West Fire - Incident 148

Job ID: 880-43796-1  
SDG: Loving NM

Method	Method Description	Protocol	Laboratory
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

**Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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### Sample Summary

Client: BTA Oil Producers  
Project/Site: Harroun West Fire - Incident 148

Job ID: 880-43796-1  
SDG: Loving NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-43796-1	PH 16 @ 0-6"	Solid	05/21/24 13:00	05/22/24 13:18
880-43796-2	PH 16 @ 2-4'	Solid	05/21/24 13:15	05/22/24 13:18
880-43796-3	PH 16 @ 4-6'	Solid	05/21/24 13:30	05/22/24 13:18
880-43796-4	H8 @ 0-6"	Solid	05/21/24 14:00	05/22/24 13:18

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Environment Testing  
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody



www.xenco.com

Project Manager: *Barbara*  
 Company Name: *BTA Oil Producers*  
 Address: *104 S Paces St*  
 City, State ZIP: *Midland TX 79701*  
 Phone: *(817) 212-1388*  
 Email: *rmars@btaoil.com*

Bill to: (if different)  
 Company Name:  
 Address:  
 City, State ZIP:

Work Order Comments  
 Program:  UST/PST  PRP  Brownfields  RRC  Superfund  
 State of Project:  
 Reporting: Level II  Level III  PST/UST  TRRP  Level IV   
 Deliverables: EDD  ADAPT  Other:

Project Name: *Hydram test Site* Turn Around  
 Project Number: *Incident 198*  Routine  Rush  
 Project Location: *Loving Wm* Due Date: *7/8/24*  
 Sampler's Name: *Barbara* TAT starts the day received by the lab, if received by 4:30pm  
 P.O. #:  
 SAMPLE RECEIPT Temp Blank:  Yes  No Wet Ice:  Yes  No  
 Samples Received Intact:  Yes  No Thermometer ID: *178*  
 Cooler Custody Seals: Yes No N/A Correction Factor:  
 Sample Custody Seals: Yes No N/A Temperature Reading: *3.0*  
 Total Containers: Corrected Temperature: *2.9*

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	
							Chlorides	TPT 8015
<i>PH16-0-0-6"</i>		<i>5/21</i>	<i>1:00</i>			<i>1</i>	<i>x</i>	
<i>PH16-0-2-4"</i>		<i>5/24</i>	<i>1:15</i>			<i>1</i>		
<i>PH16-0-4-6"</i>		<i>5/24</i>	<i>1:30</i>			<i>1</i>		
<i>HS 0-0-6"</i>		<i>5/21</i>	<i>2:00</i>			<i>1</i>		

Total 200.7 / 6010 200.8 / 6020: BRCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO<sub>2</sub> Na Sr Tl Sn U V Zn  
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	<i>5/22/24</i>			
		<i>5/29</i>			
		<i>6/19</i>			

### Login Sample Receipt Checklist

Client: BTA Oil Producers

Job Number: 880-43796-1

SDG Number: Loving NM

**Login Number: 43796**

**List Number: 1**

**Creator: Rodriguez, Leticia**

**List Source: Eurofins Midland**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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QUESTIONS

Action 359324

**QUESTIONS**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 359324
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2411724780
Incident Name	NAPP2411724780 HARROUN RANCH EAST BATTERY - FIRE @ 0
Incident Type	Fire
Incident Status	Remediation Plan Received
Incident Facility	[fAPP2129830694] Harroun Ranch East

**Location of Release Source**

Please answer all the questions in this group.

Site Name	HARROUN RANCH EAST BATTERY - FIRE
Date Release Discovered	04/25/2024
Surface Owner	Federal

**Incident Details**

Please answer all the questions in this group.

Incident Type	Fire
Did this release result in a fire or is the result of a fire	Yes
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	Yes
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Fire   Production Tank   Crude Oil   Released: 580 BBL (Unknown Released Amount)   Recovered: 0 BBL   Lost: 580 BBL.
Produced Water Released (bbls) Details	Cause: Fire   Tank (Any)   Produced Water   Released: 1,200 BBL   Recovered: 0 BBL   Lost: 1,200 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	4/25/24 fire consumed the facility. Emergency response activities were immediately initiated by local FD. Service trucks were immediately dispatched to recover all free standing fluids.

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QUESTIONS, Page 2

Action 359324

**QUESTIONS (continued)**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297 Action Number: 359324 Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
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**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using:</b> (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire; (d) substantially damages property or the environment.

*With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.*

**Initial Response**

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

The source of the release has been stopped	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

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

I hereby agree and sign off to the above statement	Name: Chuck Terhune Email: <a href="mailto:chuck.terhune@tetrattech.com">chuck.terhune@tetrattech.com</a> Date: 04/29/2024
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QUESTIONS, Page 3

Action 359324

**QUESTIONS (continued)**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 359324
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

**Site Characterization**  
*Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 300 and 500 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 300 and 500 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**Remediation Plan**

*Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	6560
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	3475
GRO+DRO (EPA SW-846 Method 8015M)	2520
BTEX (EPA SW-846 Method 8021B or 8260B)	69.9
Benzene (EPA SW-846 Method 8021B or 8260B)	0

*Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.*

On what estimated date will the remediation commence	06/05/2024
On what date will (or did) the final sampling or liner inspection occur	06/06/2024
On what date will (or was) the remediation complete(d)	07/12/2024
What is the estimated surface area (in square feet) that will be reclaimed	15000
What is the estimated volume (in cubic yards) that will be reclaimed	2250
What is the estimated surface area (in square feet) that will be remediated	47000
What is the estimated volume (in cubic yards) that will be remediated	7000

*These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.*

*The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.*

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QUESTIONS, Page 4

Action 359324

**QUESTIONS (continued)**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 359324
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetrattech.com Date: 06/27/2024
--	--

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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Action 359324

**QUESTIONS (continued)**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 359324
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 359324

**QUESTIONS (continued)**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 359324
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>355405</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>06/28/2024</b>
What was the (estimated) number of samples that were to be gathered	<b>10</b>
What was the sampling surface area in square feet	<b>4000</b>

<b>Remediation Closure Request</b>	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	<b>No</b>

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CONDITIONS

Action 359324

**CONDITIONS**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 359324
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**CONDITIONS**

Created By	Condition	Condition Date
scwells	Remediation plan conditionally approved. OCD approves the vertical delineation of H7, H9, H11, PH3 and PH9 to be completed through excavation and confirmation sampling pursuant to 19.15.29.12 NMAC. Due to incomplete delineation information the excavation may need to be extended past the proposed 2 foot and 6 foot depths in order to meet the most stringent remediation closure criteria found on Table I of 19.15.29 NMAC, with an approved background chloride concentration of 3,080 mg/kg. Submit report to the OCD by 9/26/2024.	6/28/2024