



September 30, 2024

District Supervisor
Oil Conservation Division, District 2
811 S. First St.
Artesia, New Mexico 88210

**Re: Site Reclamation Report and Closure Request
BTA Oil Producers, LLC
Harroun Ranch West Flowline Release
Unit Letter O, Section 20, Township 23 South, Range 29 East
Eddy County, New Mexico
NMOCD Incident ID# nAPP2416548667**

Dear Sir or Madam,

Tetra Tech, Inc. (Tetra Tech) was contracted by BTA Oil Producers, LLC (BTA) to assist with a release associated with the Harroun Ranch West Tank Battery. The release footprint is located in Public Land Survey System (PLSS) Unit Letter O, Section 20, Township 23 South, Range 29 East, in Eddy County, New Mexico at coordinates 32.284965°, -104.006619° (Site). The location is shown in **Figure 1** and **Figure 2**.

BACKGROUND

According to the State of New Mexico C-141 Initial Report, on June 12, 2024, an operator switched production to an open-ended line that had been cut due to a recent fire reported under a separate incident at Site. The open-ended line released approximately 15 barrels (bbls) of produced water before the operator switched over to an uncut line. BTA dispatched vacuum trucks immediately to begin recovering released fluids. Approximately 7 bbls of produced water were recovered during the initial response activities. Once all free fluids were recovered, BTA began immediately excavating the release footprint down to a depth of 4 feet bgs. The release notification was submitted to NMOCD on June 13, 2024, and subsequently assigned the release Incident Identification (ID) nAPP2416548667. 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 to the east-northeast with no depth to water listed. The next nearest well is approximately 1.13 miles away with a depth to water of 44 feet bgs. Based on the Site Assessment and remediation work conducted at the Harroun Ranch West Battery Fire under incident ID nAPPO2411724780 (200 feet north of the Site) the depth to groundwater at the Site is approximately 11 feet below ground surface (bgs). The groundwater site characterization data is included in **Attachment 1**.

Tetra Tech, Inc.

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Site Characterization and Remediation Work Plan
BTA Oil Producers, LLC
Harroun Ranch West Flowline Release
Incident ID# nAPP2416548667

September 30, 2024

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.

Background samples are discussed below, completed in accordance with the December 1, 2023, Notice, and approved by the NMOCD on June 28, 2024. The established chloride background concentration is as follows:

Chloride Remediation Criteria

Constituent	Remediation RRAL
Chloride	3,080 mg/kg

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SITE ASSESSMENT SUMMARY

Soil Assessment Sampling

BTA conducted hand auger assessment sampling from the bottom of the initial excavation and surrounding the release footprint to laterally and vertically delineate the release extents on July 15, 2024. A total of seven (7) surface lateral delineation samples were collected from the upper one foot and four (4) hand auger samples were advanced to depths of 5.5 feet bgs within the release footprint. Soils at the Site consist of light brown sandy loam with gravel. Soil assessment location locations are depicted in **Figure 3** and Site Assessment 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 11 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.

Soil Assessment Results

Analytical results for the submitted lateral delineation and vertical delineation samples reported BTEX and TPH concentrations at non-detect concentrations with reporting limits less than respective Reclamation Requirements. Chloride analytical results reported concentrations between 80 mg/kg and 1,600 mg/kg, less than the proposed background chloride concentrations. Laboratory analytical results are summarized in **Table 3** screened against Reclamation Requirements and the proposed background chloride concentration. Laboratory 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 Site to conduct background soil sampling for the Harroun Ranch West Battery Fire assessment under incident ID nAPPO2411724780 to support a determination of elevated background chloride concentrations 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 Harroun Ranch West Battery Site and in the vicinity of this release Site. Background samples are representative of the entire horizontal and vertical extent of the release area. The background sample locations are presented in **Table 2** and **Figure 4**.

Background soil sample concentrations ranged from 288 mg/kg at Background - BG 7 @ 4' sample to 6,880 mg/kg at Background - BG 4 @ 4'. Soil background sample laboratory analytical results are summarized in **Table 4**. The laboratory analytical data packages are included in **Attachment 2**.

The NMOCD approved the chloride background remediation criteria at the Site or incident nAPP2416548667 on July 24, 2024.

REMEDIATION WORK PLAN

Based on the analytical results from the assessment, BTA proposed to remove the impacted material within the release extent. Impacted soils were proposed to be excavated to an approximate depth of 5 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.

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Alternative Confirmation Sampling Plan

In accordance with 19.15.29.12(D)(1)(b) NMAC, BTA requested 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 proposed to submit samples for analysis of BTEX by Method 8260B, TPH by Method 8015 modified, and chloride by Method 4500CL-B. The NMOCD approved the Alternative Confirmation Sampling Plan on July 24, 2024.

NMOCD Remediation Work Plan Approval

The NMOCD approved the remediation work plan on July 24, 2024, with the following conditions:

- 1. OCD accepts BTA's background level for chloride of 3,080 mg/Kg;
- 2. OCD approves the increase of the sampling frequency from 200 to 400 square feet per one (1) five (5) point composite sample for the excavation base and 200 square feet for the horizontal extent; and
- 3. BTA has 90-days (October 22, 2024) to submit to OCD its appropriate or final remediation closure report.

SOIL REMEDIATION AND CONFIRMATION SAMPLING

Excavation activities commenced during the initial response as described above on June 14, 2024, by Standard Safety and Supply (Standard) which concluded on July 25, 2024. Standard used heavy equipment to excavate the impacted soil to a depth of 5 feet. Standard excavated a total of 1,660 cubic yards of contaminated soil from an approximate total area of 8,000 square feet. Excavated material was transported to R360 Halfway Disposal and Landfill in Hobbs, New Mexico, for offsite disposal. Photographic documentation showing the open excavation is provided in **Attachment 3**.

Confirmation Sampling Notification

On June 18, 2024, Tetra Tech notified the NMOCD of the anticipated initial confirmation sampling through the submission of a C-141N Sampling Notification submission in the NMOCD Permitting portal and provided subsequent C-141N Sampling Notification update submissions through the NMOCD Permitting portal up to and including final confirmation sampling at the Site performed on July 25, 2024. Sampling notification was conducted in accordance with 19.15.29.12(D)(1)(a) NMAC and the Energy, Minerals and Natural Resources Department (EMNRD) *Notice Process Updates re: Submissions of Form C-141 Release Notification and Corrective Actions* dated December 1, 2023. Sample notifications are available in the NMOCD Portal under Incident ID nAPP2416548667.

Confirmation Sampling

Upon reaching the final lateral and vertical excavation extents of the excavation, Tetra Tech collected a total of 49 final confirmation samples including 33 five-point composite floor samples and 16 five-point composite side wall samples from the excavated areas. The remediation excavation concluded as a 5-foot excavation with a 11,200 square-foot base and 2,850 square feet of sidewall for a total area of 14,050 square feet from which 49 final confirmation samples were collected for a sampling density of approximately one (1) sample per 287 square feet. Remediation excavation extents and sampling locations are presented in **Figure 4**.

Samples were submitted to Cardinal Laboratory in Hobbs, New Mexico for analysis of BTEX by Method 8021B, TPH by Method 8015M, and chloride by Method SM4500 CL-B. Confirmation sample laboratory analytical results screened against Reclamation Requirements and established chloride background concentration are summarized

Site Characterization and Remediation Work Plan
BTA Oil Producers, LLC
Harroun Ranch West Flowline Release
Incident ID# nAPP2416548667

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in **Table 5**. Laboratory analytical data packages including chain of custody documentation are included in **Attachment 2**.

Excavation Backfill

Between July 26 and 28, 2024, subsequent to the receipt of confirmation sample results, Standard completed backfilling of the excavated area with 1,770 cubic yards of clean soil sourced from Seth Boyd Pit.

Reclamation and Revegetation

To restore the impacted surface areas to the condition that existed prior to the release, the excavated areas of the Site have been backfilled with clean topsoil. The disturbed areas have been graded back to match the surrounding topography and the pre-existing conditions prior to contouring to provide erosion control, long-term stability, prevent ponding of water, and preserve surface water flow patterns.

Subsequent to restoring topography and contouring the disturbed areas, disturbed pasture areas of the Site were seeded with New Mexico State Land Office (NMSLO) Loamy (L) Sites Seed Mixture to aid in vegetation growth to complete reclamation in accordance with the Site soil profile detailed above in the Site Characterization Section. Seeding was broadcast and harrowed in per the specifications for broadcast application in pound pure live seed per acre according to the NMSLO Loamy (L) seed mix data sheet provided in **Attachment 4**.

Site inspections will be performed periodically to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the Bureau of Land Management will be contacted to determine an effective method for eradication. If the Site does not show revegetation after one growing season, the area will be reseeded as appropriate.

CONCLUSION

Based on the results of the confirmation sampling, the impacted soil within the release footprint with BTEX and TPH greater than Reclamation Requirements or chloride greater than the established background concentration has been removed and properly disposed of offsite and the excavated area has been backfilled with clean soil, re-graded to match pre-release conditions, and seeded. Therefore, Site remediation and reclamation is complete. If you have any questions concerning the remediation activities for the Site, please contact Charles Terhune by email at Chuck.Terhune@tetrattech.com or by phone at (832) 252-2093.

Sincerely,



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



Nicholas Poole
Program Manager
Tetra Tech, Inc.

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

Site Characterization and Remediation Work Plan
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Incident ID# nAPP2416548667

September 30, 2024

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 – Remediation Extent and Confirmation Sampling Locations

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 – Soil Confirmation Sampling

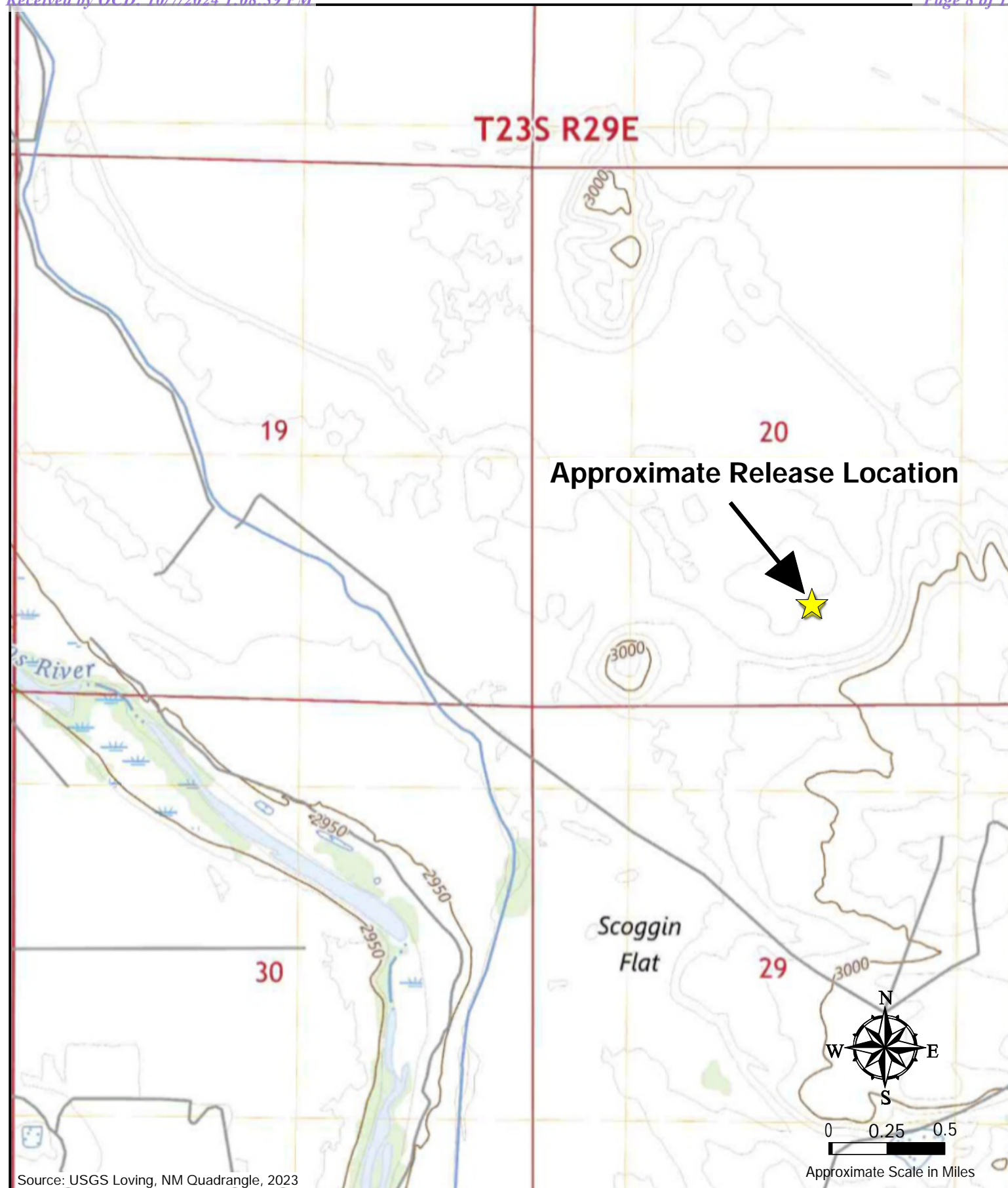
Attachments

- Attachment 1 – Site Characterization Data
- Attachment 2 – Laboratory Analytical Data
- Attachment 3 – Photographic Log
- Attachment 4 – Seed Mixture Details

Site Characterization and Remediation Work Plan
BTA Oil Producers, LLC
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Incident ID# nAPP2416548667

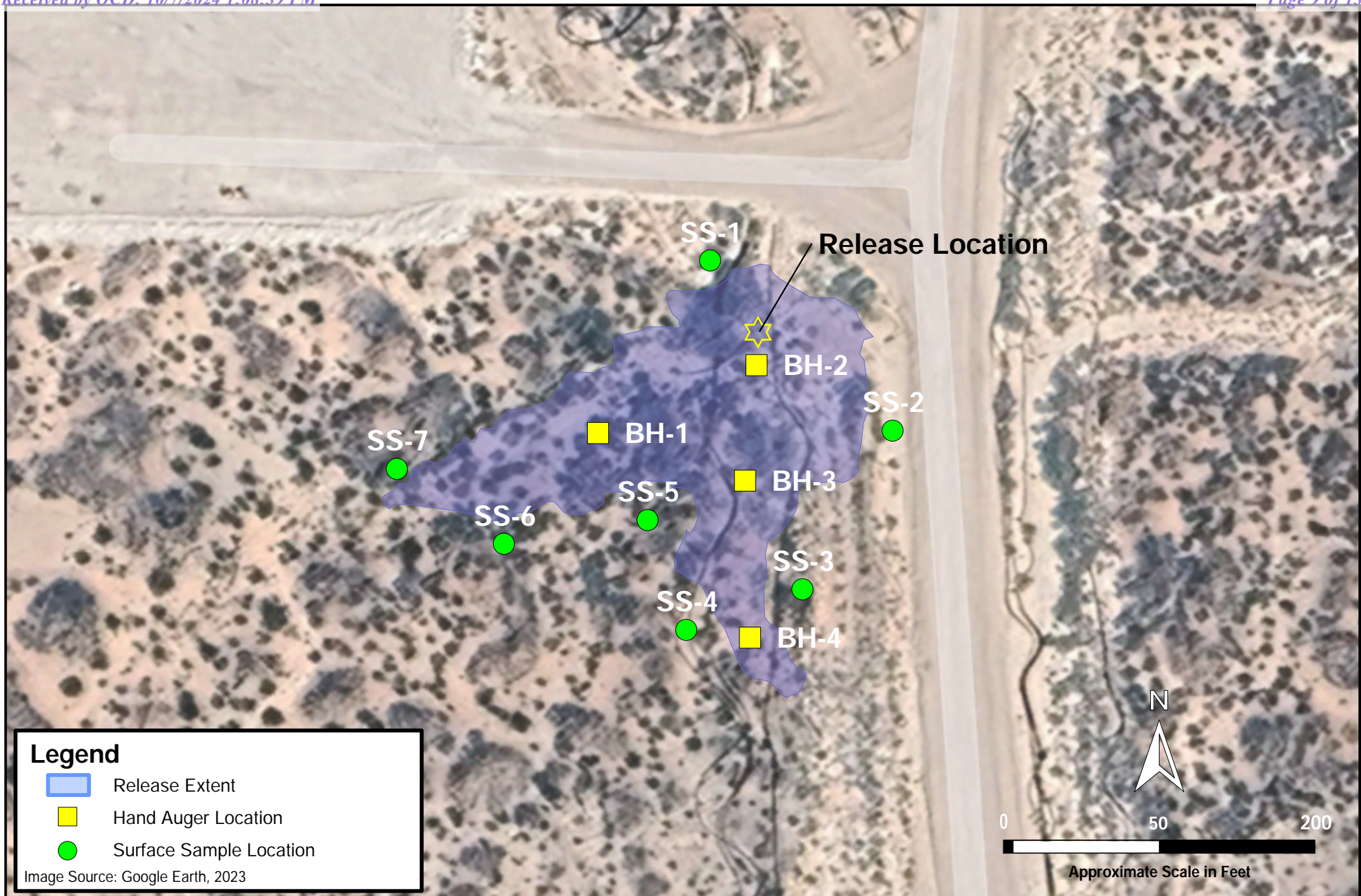
September 30, 2024

FIGURES



Source: USGS Loving, NM Quadrangle, 2023

**TETRA TECH**1500 CityWest Boulevard
Suite 1000
Houston, Texas 77042**BTA OIL PRODUCERS, LLC**NAPP2416548667
32.284965°, -104.006619°
EDDY COUNTY, NEW MEXICO**HARROUN RANCH WEST BATTERY FLOWLINE RELEASE
SITE LOCATION MAP**PROJECT NO: 212C-MD-03560
DATE: 07/17/2024
DESIGNED BY: CHT**Figure
1**



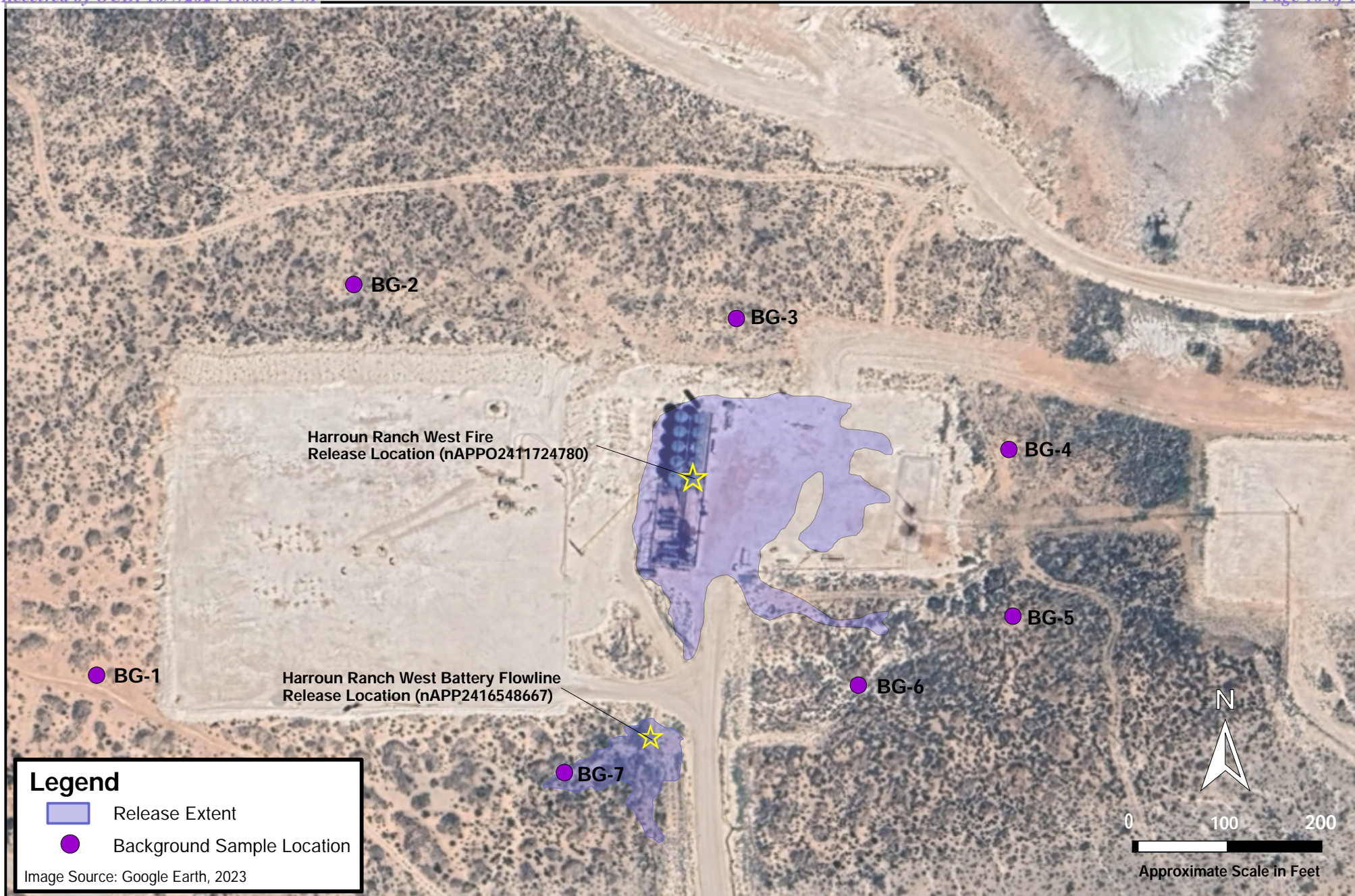
1500 CityWest Boulevard
Suite 1000
Houston, Texas 77042

BTA OIL PRODUCERS, LLC
nAPP2416548667
32.284965°, -104.006619°
LEA COUNTY, NEW MEXICO

**HARROUN RANCH WEST BATTERY FLOWLINE RELEASE
APPROXIMATE RELEASE EXTENT AND SITE ASSESSMENT MAP**

PROJECT NO: 212C-MD-03560
DATE: July 17, 2024
DESIGNED BY: CHT

Figure
2

**TETRA TECH**

1500 CityWest Boulevard
Suite 1000
Houston, Texas 77042

BTA OIL PRODUCERS, LLC

nAPP2416548667

32.284965°, -104.006619°

LEA COUNTY, NEW MEXICO

**HARROUN RANCH WEST BATTERY FLOWLINE RELEASE
BACKGROUND SAMPLE LOCATION MAP**

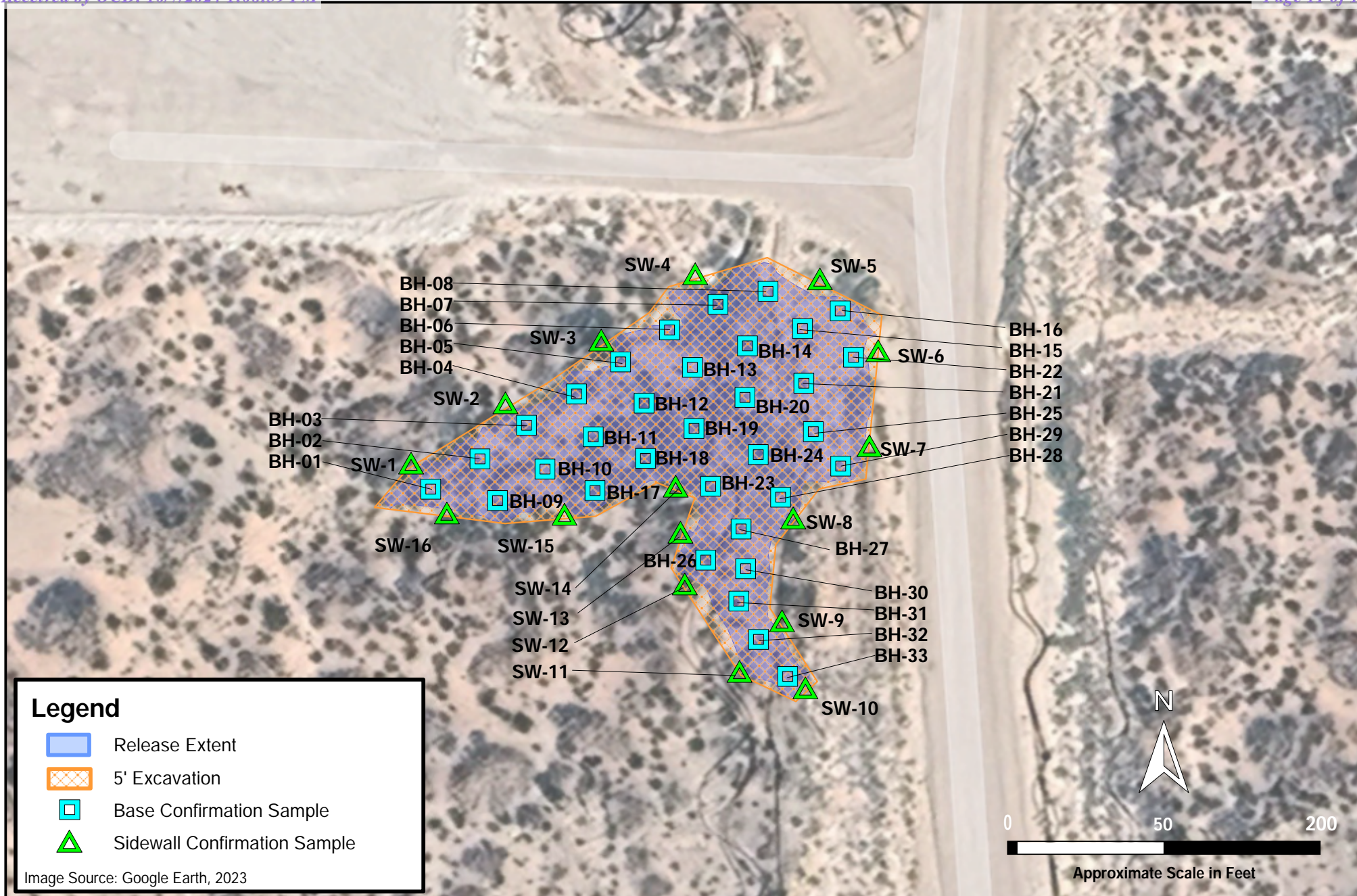
PROJECT NO: 212C-MD-03560

DATE: JULY 17, 2024

DESIGNED BY: CHT

Figure No.

3



1500 CityWest Boulevard
Suite 1000
Houston, Texas 77042

BTA OIL PRODUCERS, LLC

nAPP2416548667

32.284965°, -104.006619°

LEA COUNTY, NEW MEXICO

**HARROUN RANCH WEST BATTERY FLOWLINE RELEASE
REMEDATION EXTENT AND CONFIRMATION SAMPLE LOCATION MAP**

PROJECT NO: 212C-MD-03560

DATE: September 23, 2024

DESIGNED BY: CHT

Figure

4

Site Characterization and Remediation Work Plan
BTA Oil Producers, LLC
Harroun Ranch West Flowline Release
Incident ID# nAPP2416548667

September 30, 2024

TABLES

**TETRA TECH****TABLE 1**

SOIL ASSESSMENT LOCATIONS
INCIDENT ID NAPP2416548667
BTA OIL PRODUCERS, LLC
HARROUN RANCH WEST FLOWLINE RELEASE
EDDY COUNTY, NEW MEXICO

Boring ID	Date	Latitude	Longitude
BH-1	7/16/2024	32.284861	-104.006784
BH-2	7/16/2024	32.284931	-104.006621
BH-3	7/16/2024	32.284812	-104.006632
BH-4	7/16/2024	32.284651	-104.006627
SS-1	7/16/2024	32.285039	-104.006668
SS-2	7/16/2024	32.284864	-104.006481
SS-3	7/16/2024	32.284700	-104.006573
SS-4	7/16/2024	32.284659	-104.006693
SS-5	7/16/2024	32.284772	-104.006733
SS-6	7/16/2024	32.284747	-104.006881
SS-7	7/16/2024	32.284824	-104.006991

**TETRA TECH****TABLE 2**

BACKGROUND ASSESSMENT LOCATIONS
INCIDENT ID NAPP2416548667
BTA OIL PRODUCERS, LLC
HARROUN RANCH WEST FLOWLINE RELEASE
EDDY COUNTY, NEW MEXICO

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 NAPP2416548667
BTA OIL PRODUCERS, LLC
HARROUN RANCH WEST BATTERY FLOWLINE RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
		C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg			
feet bgs			mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Requirements (19.15.29 NMAC)			3,080		10								50								100	
BH - 1 @ 5-5.5'	7/15/2024	5.0 - 5.5	1,300		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 2 @ 5-5.5'	7/15/2024	5.0 - 5.5	880		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 3 @ 5-5.5'	7/15/2024	5.0 - 5.5	1,220		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 4 @ 5-5.5'	7/15/2024	5.0 - 5.5	624		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SS - 1 (0-1')	7/15/2024	0.0 - 1.0	1,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SS - 2 (0-1')	7/15/2024	0.0 - 1.0	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SS - 3 (0-1')	7/15/2024	0.0 - 1.0	576		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SS - 4 (0-1')	5/2/2024	0.0 - 1.0	1,540		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SS - 5 (0-1')	5/21/2024	0.0 - 1.0	288		<0.051		<0.050		<0.050		<0.150		<0.300		<49.9		<49.9		<49.9		-	
SS - 6 (0-1')	7/15/2024	0.0 - 1.0	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SS - 7 (0-1')	7/15/2024	0.0 - 1.0	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SS - 8 (0-1')	7/15/2024	0.0 - 1.0	411		<0.050		<0.050		<0.050		<0.150		<0.300		<49.9		<49.9		<49.9		-	

NOTES:
bgs: Below ground surface
mg/kg: Milligrams per kilogram
TPH: Total Petroleum Hydrocarbons

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
EXT DRO: Oil Range Organics

1: Method SM4500Cl-B
2: Method 8021B
3: Method 8015M

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

SUMMARY OF ANALYTICAL RESULTS
SOIL BACKGROUND ASSESSMENT SAMPLING - INCIDENT NAPP2416548667
BTA OIL PRODUCERS, LLC
HARROUN RANCH WEST BATTERY FLOWLINE RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹	
		feet bgs	mg/kg	Q
Reclamation Requirements (19.15.29 NMAC)			600	
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 SM4500Cl-B



TABLE 5
SUMMARY OF ANALYTICAL RESULTS
SOIL CONFIRMATION SAMPLING - INCIDENT NAPP2416548667
BTA OIL PRODUCERS, LLC
HARROUN RANCH WEST BATTERY FLOWLINE RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	mg/kg					
Reclamation Requirements (19.15.29 NMAC)			3,080		10								50							100		
BH - 01 @ 5-5.5'	7/25/2024	5.0 - 5.5	640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 02 @ 5-5.5'	7/25/2024	5.0 - 5.5	640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 03 @ 5-5.5'	7/25/2024	5.0 - 5.5	496		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 04 @ 5-5.5'	7/25/2024	5.0 - 5.5	576		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 05 @ 5-5.5'	7/25/2024	5.0 - 5.5	544		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 06 @ 5-5.5'	7/25/2024	5.0 - 5.5	640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 07 @ 5-5.5'	7/25/2024	5.0 - 5.5	560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 08 @ 5-5.5'	7/25/2024	5.0 - 5.5	544		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 09 @ 5-5.5'	7/25/2024	5.0 - 5.5	592		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 10 @ 5-5.5'	7/25/2024	5.0 - 5.5	432		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 11 @ 5-5.5'	7/25/2024	5.0 - 5.5	672		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 12 @ 5-5.5'	7/25/2024	5.0 - 5.5	672		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 13 @ 5-5.5'	7/25/2024	5.0 - 5.5	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 14 @ 5-5.5'	7/26/2024	5.0 - 5.5	528		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 15 @ 5-5.5'	7/26/2024	5.0 - 5.5	544		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 16 @ 5-5.5'	7/26/2024	5.0 - 5.5	464		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 17 @ 5-5.5'	7/26/2024	5.0 - 5.5	496		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 18 @ 5-5.5'	7/26/2024	5.0 - 5.5	496		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 19 @ 5-5.5'	7/26/2024	5.0 - 5.5	592		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 20 @ 5-5.5'	7/26/2024	5.0 - 5.5	592		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 21 @ 5-5.5'	7/26/2024	5.0 - 5.5	464		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 22 @ 5-5.5'	7/26/2024	5.0 - 5.5	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 23 @ 5-5.5'	7/26/2024	5.0 - 5.5	528		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 24 @ 5-5.5'	7/26/2024	5.0 - 5.5	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 25 @ 5-5.5'	7/26/2024	5.0 - 5.5	496		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 26 @ 5-5.5'	7/26/2024	5.0 - 5.5	544		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 27 @ 5-5.5'	7/26/2024	5.0 - 5.5	464		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 28 @ 5-5.5'	7/26/2024	5.0 - 5.5	640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 29 @ 5-5.5'	7/26/2024	5.0 - 5.5	512		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 30 @ 5-5.5'	7/26/2024	5.0 - 5.5	512		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 31 @ 5-5.5'	7/26/2024	5.0 - 5.5	592		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 32 @ 5-5.5'	7/26/2024	5.0 - 5.5	448		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH - 33 @ 5-5.5'	7/26/2024	5.0 - 5.5	624		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
SW - 01 @ 0-5'	7/25/2024	0.0 - 5.0	816		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
SW - 02 @ 0-5'	7/25/2024	0.0 - 5.0	736		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
SW - 03 @ 0-5'	7/25/2024	0.0 - 5.0	896		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
SW - 04 @ 0-5'	7/25/2024	0.0 - 5.0	624		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		



TABLE 5
SUMMARY OF ANALYTICAL RESULTS
SOIL CONFIRMATION SAMPLING - INCIDENT NAPP2416548667
BTA OIL PRODUCERS, LLC
HARROUN RANCH WEST BATTERY FLOWLINE RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
		C ₆ - C ₁₀		> C ₁₀ - C ₂₈											> C ₂₈ - C ₃₆							
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Requirements (19.15.29 NMAC)			3,080	Q	10	Q		Q		Q		50	Q		Q		Q		100			
SW - 05 @ 0-5'	7/25/2024	0.0 - 5.0	800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 06 @ 0-5'	7/25/2024	0.0 - 5.0	800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 07 @ 0-5'	7/25/2024	0.0 - 5.0	672		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 08 @ 0-5'	7/25/2024	0.0 - 5.0	736		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 09 @ 0-5'	7/25/2024	0.0 - 5.0	816		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 10 @ 0-5'	7/25/2024	0.0 - 5.0	880		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 11 @ 0-5'	7/25/2024	0.0 - 5.0	624		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 12 @ 0-5'	7/25/2024	0.0 - 5.0	656		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 13 @ 0-5'	7/25/2024	0.0 - 5.0	640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 14 @ 0-5'	7/25/2024	0.0 - 5.0	544		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 15 @ 0-5'	7/25/2024	0.0 - 5.0	688		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 16 @ 0-5'	7/25/2024	0.0 - 5.0	656		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

NOTES:
bgs: Below ground surface
mg/kg: Milligrams per kilogram
TPH: Total Petroleum Hydrocarbons

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
EXT DRO: Oil Range Organics

1: Method SM4500CI-B
2: Method 8021B
3: Method 8015M

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

Site Characterization and Remediation Work Plan
BTA Oil Producers, LLC
Harroun Ranch West Flowline Release
Incident ID# nAPP2416548667

September 30, 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
C 02613	CUB	ED		4	4	2	20	23S	29E	594203	3573176*	895	400		
C 03587 POD2	CUB	ED		1	2	4	19	23S	29E	592213	3572706	1350	77	16	61
C 02721	CUB	ED			2	3	21	23S	29E	594915	3572879*	1397	150		
C 03057 EXPLORE	CUB	ED		4	1	1	21	23S	29E	594605	3573586*	1469	150		
C 02720	CUB	ED			2	1	21	23S	29E	594911	3573690*	1766	150		
C 03587 POD1	CUB	ED		1	4	3	29	23S	29E	593338	3570754	1815	99	44	55
C 02608	CUB	ED		3	1	4	17	23S	29E	593598	3574387*	1829	400		
C 03059 EXPLORE	CUB	ED		4	1	3	17	23S	29E	592993	3574378*	1905		65	
C 02182	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

UTM NAD83 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.

5/8/24 9:03 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

National Flood Hazard Layer FIRMMette



104°0'43"W 32°17'22"N



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

1:6,000

104°0'6"W 32°16'52"N

Legend

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

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



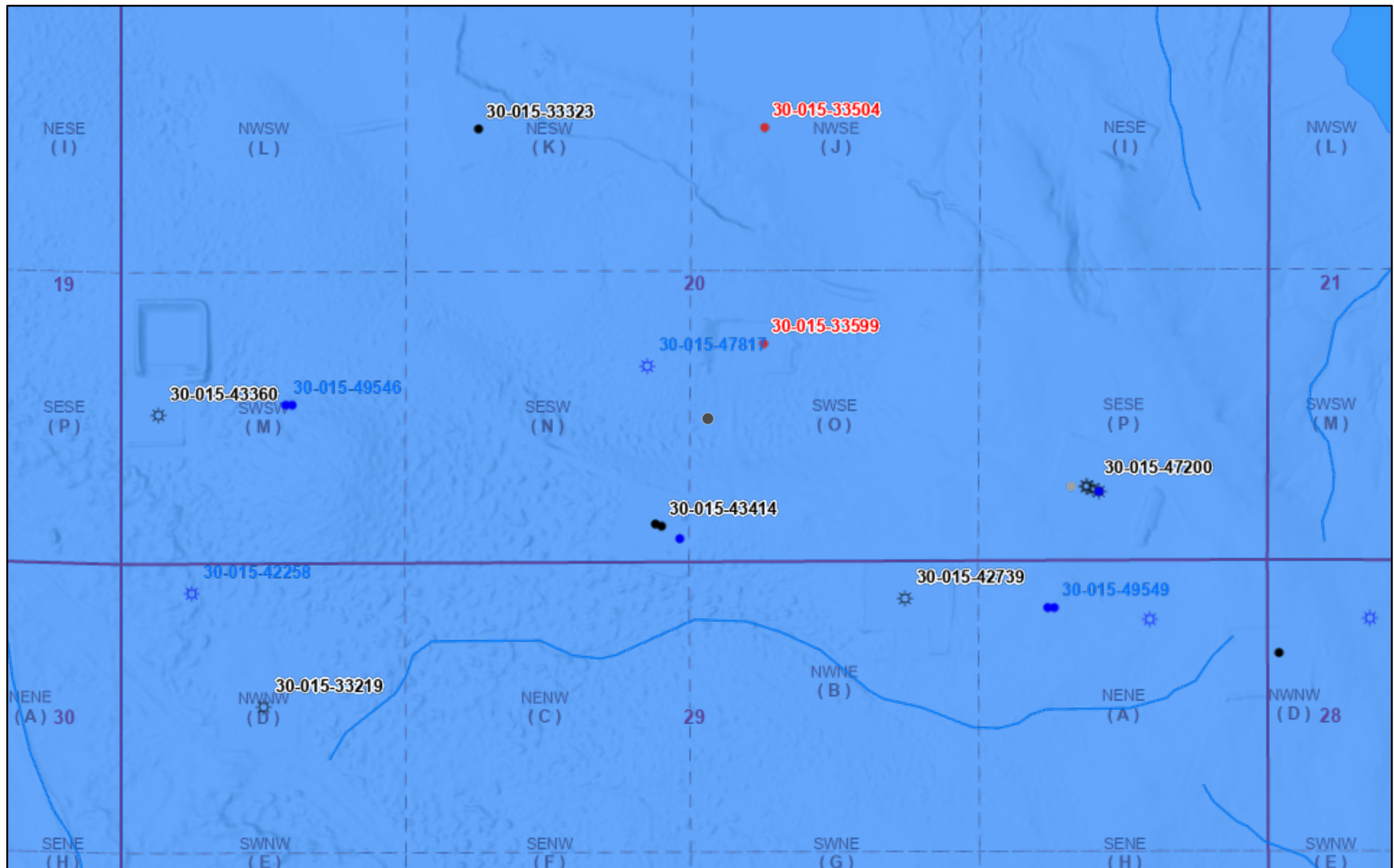
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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 6/13/2024 at 3:55 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

OCD Well Locations



6/13/2024, 2:37:33 PM

Wells - Large Scale

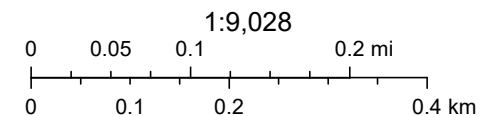
- Gas, Active (Star symbol)
- Gas, New (Star symbol)
- Oil, Active (Black dot)
- Oil, Cancelled (Grey dot)
- Oil, New (Blue dot)
- Oil, Plugged (Red dot)

Karst Occurrence Potential

- Medium (Blue square)
- OSW Water Bodys (Light blue square)
- OSE Streams (Blue line)

PLSS Second Division (Dashed orange line)

PLSS First Division (Red line)



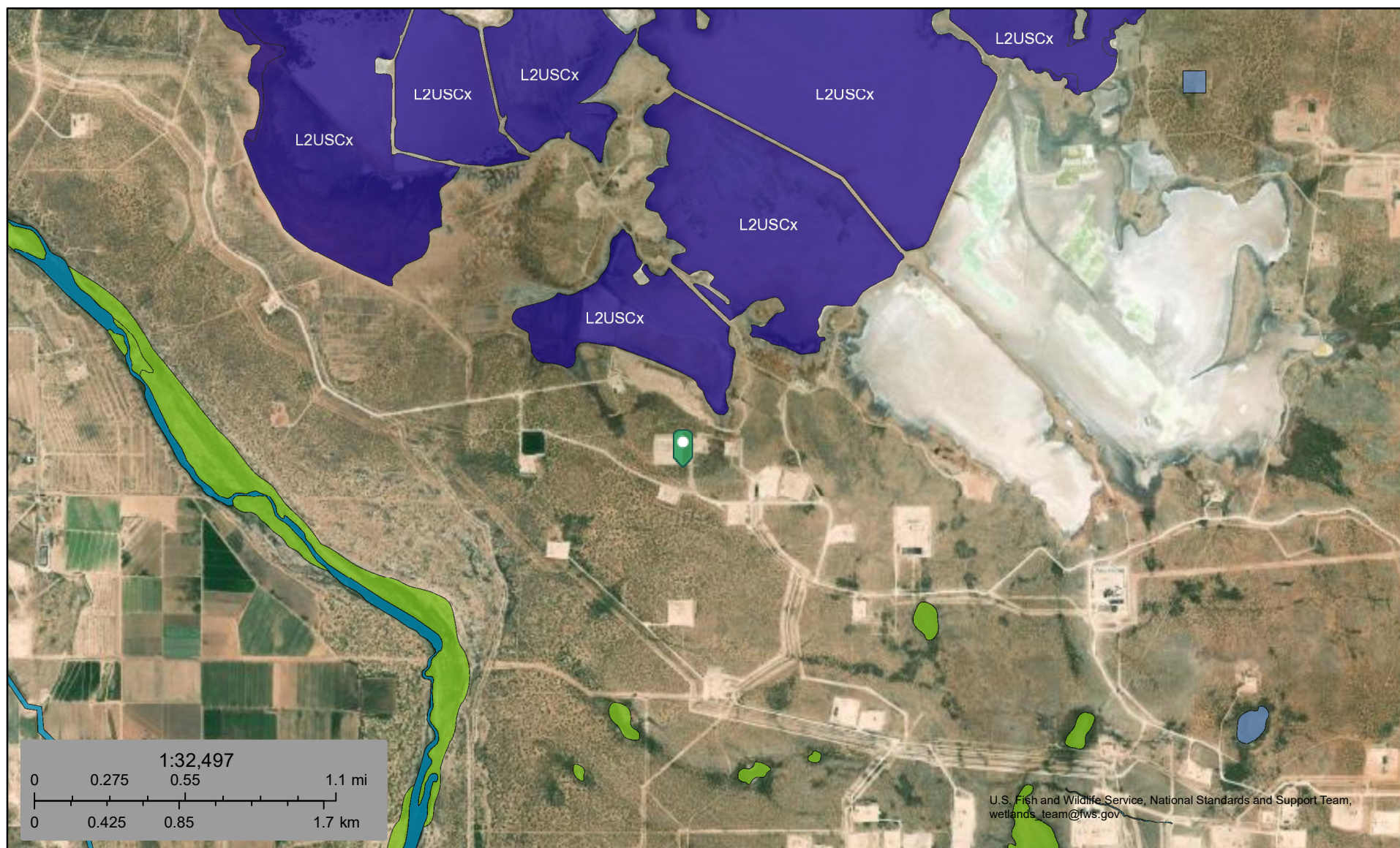
BLM, OCD, New Mexico Tech, Esri, NASA, NGA, USGS, FEMA, Oil Conservation Division of the New Mexico Energy, Minerals and Natural

New Mexico Oil Conservation Division

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



Harroun Battery West Wetlands



June 13, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

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

Harroun Ranch West

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)



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

5/8/2024
Page 1 of 3

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%
Totals for Area of Interest		23.6	100.0%

Site Characterization and Remediation Work Plan
BTA Oil Producers, LLC
Harroun Ranch West Flowline Release
Incident ID# nAPP2416548667

September 30, 2024

ATTACHMENT 2 – LABORATORY ANALYTICAL DATA



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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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, SM4500Cl-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, SM4500Cl-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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BTA Oil Producers Project Manager: Ray Ramos Address: 100 S Peck St City: Midland State: TX Zip: 79701 Phone #: (432) 215-1288 Fax #: Project #: Incident 148 Project Owner: Ray Ramos Project Name: Herrera West Battery - Fine Project Location: Spring, NM Sampler Name: Ray Ramos		P.O. #: Company: BTA Attn: Address: City: State: Zip: Phone #: Fax #:	
Lab I.D. Sample I.D.		BILL TO	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising from this contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use or loss of profits incurred by client, its subsidiaries, affiliates or successors, whether or not 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.		ANALYSIS REQUEST	
Reinquisitioned By: 1411111111 Reinquisitioned Date: 5/15/14 Reinquisitioned Time: 8:15am Reinquisitioned By: [Signature]		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: 14°C Corrected Temp. °C: Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Checked By: [Signature]	
Turnaround Time: Thermometer ID #140 Correction Factor 0°C		Standard: <input checked="" type="checkbox"/> Rush: <input type="checkbox"/> 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:	
Lab I.D. 1721205 1 2 3 4 5 6 7		Sample I.D. Background - B61 @ 4' Background - B63 @ 4' Background - B63 @ 4' Background - B64 @ 4' Background - B64 @ 4' Background - B64 @ 4' Background - B64 @ 4' Background - B67 @ 4'	
FOR LAB USE ONLY		MATRIX (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	
DATE 5/14 TIME 8:30 8:58 9:37 10:00 10:28 11:00 11:49		SAMPLING Chlorides	

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



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

July 17, 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 07/16/24 8:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/16/2024	Sampling Date:	07/15/2024
Reported:	07/17/2024	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: BH - 1 @ 5-5.5' (H244219-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2024	ND	2.09	105	2.00	3.18	
Toluene*	<0.050	0.050	07/16/2024	ND	2.18	109	2.00	1.64	
Ethylbenzene*	<0.050	0.050	07/16/2024	ND	2.28	114	2.00	2.45	
Total Xylenes*	<0.150	0.150	07/16/2024	ND	7.14	119	6.00	3.35	
Total BTEX	<0.300	0.300	07/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	07/16/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2024	ND	206	103	200	6.82	
DRO >C10-C28*	<10.0	10.0	07/16/2024	ND	179	89.6	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	07/16/2024	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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:	07/16/2024	Sampling Date:	07/15/2024
Reported:	07/17/2024	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: BH - 2 @ 5-5.5' (H244219-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2024	ND	2.09	105	2.00	3.18		
Toluene*	<0.050	0.050	07/16/2024	ND	2.18	109	2.00	1.64		
Ethylbenzene*	<0.050	0.050	07/16/2024	ND	2.28	114	2.00	2.45		
Total Xylenes*	<0.150	0.150	07/16/2024	ND	7.14	119	6.00	3.35		
Total BTEX	<0.300	0.300	07/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	07/16/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2024	ND	206	103	200	6.82	
DRO >C10-C28*	<10.0	10.0	07/16/2024	ND	179	89.6	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	07/16/2024	ND					

Surrogate: 1-Chlorooctane 96.8 % 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:	07/16/2024	Sampling Date:	07/15/2024
Reported:	07/17/2024	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: BH - 3 @ 5-5.5' (H244219-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2024	ND	2.09	105	2.00	3.18		
Toluene*	<0.050	0.050	07/16/2024	ND	2.18	109	2.00	1.64		
Ethylbenzene*	<0.050	0.050	07/16/2024	ND	2.28	114	2.00	2.45		
Total Xylenes*	<0.150	0.150	07/16/2024	ND	7.14	119	6.00	3.35		
Total BTEX	<0.300	0.300	07/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	07/16/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/16/2024	ND	206	103	200	6.82		
DRO >C10-C28*	<10.0	10.0	07/16/2024	ND	179	89.6	200	9.62		
EXT DRO >C28-C36	<10.0	10.0	07/16/2024	ND						

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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:	07/16/2024	Sampling Date:	07/15/2024
Reported:	07/17/2024	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: BH - 4 @ 5-5.5' (H244219-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2024	ND	2.09	105	2.00	3.18		
Toluene*	<0.050	0.050	07/16/2024	ND	2.18	109	2.00	1.64		
Ethylbenzene*	<0.050	0.050	07/16/2024	ND	2.28	114	2.00	2.45		
Total Xylenes*	<0.150	0.150	07/16/2024	ND	7.14	119	6.00	3.35		
Total BTEX	<0.300	0.300	07/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	07/16/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/16/2024	ND	206	103	200	6.82		
DRO >C10-C28*	<10.0	10.0	07/16/2024	ND	179	89.6	200	9.62		
EXT DRO >C28-C36	<10.0	10.0	07/16/2024	ND						

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 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:	07/16/2024	Sampling Date:	07/15/2024
Reported:	07/17/2024	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: SS - 1 (0-1') (H244219-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2024	ND	2.09	105	2.00	3.18		
Toluene*	<0.050	0.050	07/16/2024	ND	2.18	109	2.00	1.64		
Ethylbenzene*	<0.050	0.050	07/16/2024	ND	2.28	114	2.00	2.45		
Total Xylenes*	<0.150	0.150	07/16/2024	ND	7.14	119	6.00	3.35		
Total BTEX	<0.300	0.300	07/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	07/16/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2024	ND	206	103	200	6.82	
DRO >C10-C28*	<10.0	10.0	07/16/2024	ND	179	89.6	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	07/16/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 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:	07/16/2024	Sampling Date:	07/15/2024
Reported:	07/17/2024	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: SS - 2 (0-1') (H244219-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2024	ND	2.09	105	2.00	3.18		
Toluene*	<0.050	0.050	07/16/2024	ND	2.18	109	2.00	1.64		
Ethylbenzene*	<0.050	0.050	07/16/2024	ND	2.28	114	2.00	2.45		
Total Xylenes*	<0.150	0.150	07/16/2024	ND	7.14	119	6.00	3.35		
Total BTEX	<0.300	0.300	07/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	07/16/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2024	ND	206	103	200	6.82	
DRO >C10-C28*	<10.0	10.0	07/16/2024	ND	179	89.6	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	07/16/2024	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 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:	07/16/2024	Sampling Date:	07/15/2024
Reported:	07/17/2024	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: SS - 3 (0-1') (H244219-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2024	ND	2.09	105	2.00	3.18		
Toluene*	<0.050	0.050	07/16/2024	ND	2.18	109	2.00	1.64		
Ethylbenzene*	<0.050	0.050	07/16/2024	ND	2.28	114	2.00	2.45		
Total Xylenes*	<0.150	0.150	07/16/2024	ND	7.14	119	6.00	3.35		
Total BTEX	<0.300	0.300	07/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	07/16/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2024	ND	206	103	200	6.82	
DRO >C10-C28*	<10.0	10.0	07/16/2024	ND	179	89.6	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	07/16/2024	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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:	07/16/2024	Sampling Date:	07/15/2024
Reported:	07/17/2024	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: SS - 4 (0-1') (H244219-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2024	ND	2.09	105	2.00	3.18		
Toluene*	<0.050	0.050	07/16/2024	ND	2.18	109	2.00	1.64		
Ethylbenzene*	<0.050	0.050	07/16/2024	ND	2.28	114	2.00	2.45		
Total Xylenes*	<0.150	0.150	07/16/2024	ND	7.14	119	6.00	3.35		
Total BTEX	<0.300	0.300	07/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1060	16.0	07/16/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2024	ND	206	103	200	6.82	
DRO >C10-C28*	<10.0	10.0	07/16/2024	ND	179	89.6	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	07/16/2024	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 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:	07/16/2024	Sampling Date:	07/15/2024
Reported:	07/17/2024	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: SS - 5 (0-1') (H244219-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2024	ND	2.09	105	2.00	3.18		
Toluene*	<0.050	0.050	07/16/2024	ND	2.18	109	2.00	1.64		
Ethylbenzene*	<0.050	0.050	07/16/2024	ND	2.28	114	2.00	2.45		
Total Xylenes*	<0.150	0.150	07/16/2024	ND	7.14	119	6.00	3.35		
Total BTEX	<0.300	0.300	07/16/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/16/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2024	ND	181	90.4	200	5.61	
DRO >C10-C28*	<10.0	10.0	07/16/2024	ND	182	90.8	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	07/16/2024	ND					

Surrogate: 1-Chlorooctane 103 % 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:	07/16/2024	Sampling Date:	07/15/2024
Reported:	07/17/2024	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: SS - 6 (0-1') (H244219-10)

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	07/16/2024	ND	2.09	105	2.00	3.18	
Toluene*	<0.050	0.050	07/16/2024	ND	2.18	109	2.00	1.64	
Ethylbenzene*	<0.050	0.050	07/16/2024	ND	2.28	114	2.00	2.45	
Total Xylenes*	<0.150	0.150	07/16/2024	ND	7.14	119	6.00	3.35	
Total BTEX	<0.300	0.300	07/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/16/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2024	ND	181	90.4	200	5.61	
DRO >C10-C28*	<10.0	10.0	07/16/2024	ND	182	90.8	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	07/16/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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:	07/16/2024	Sampling Date:	07/15/2024
Reported:	07/17/2024	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: SS - 7 (0-1') (H244219-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2024	ND	2.09	105	2.00	3.18		
Toluene*	<0.050	0.050	07/16/2024	ND	2.18	109	2.00	1.64		
Ethylbenzene*	<0.050	0.050	07/16/2024	ND	2.28	114	2.00	2.45		
Total Xylenes*	<0.150	0.150	07/16/2024	ND	7.14	119	6.00	3.35		
Total BTEX	<0.300	0.300	07/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/16/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2024	ND	181	90.4	200	5.61	
DRO >C10-C28*	<10.0	10.0	07/16/2024	ND	182	90.8	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	07/16/2024	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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:	07/16/2024	Sampling Date:	07/15/2024
Reported:	07/17/2024	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: SS - 8 (0-1') (H244219-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2024	ND	2.09	105	2.00	3.18		
Toluene*	<0.050	0.050	07/16/2024	ND	2.18	109	2.00	1.64		
Ethylbenzene*	<0.050	0.050	07/16/2024	ND	2.28	114	2.00	2.45		
Total Xylenes*	<0.150	0.150	07/16/2024	ND	7.14	119	6.00	3.35		
Total BTEX	<0.300	0.300	07/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/16/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2024	ND	181	90.4	200	5.61	
DRO >C10-C28*	<10.0	10.0	07/16/2024	ND	182	90.8	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	07/16/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name: **BTA Oil Producers, LLC**

Site Manager: Ray Ramos

Project Name: Haroun Ranch Battery West Fire

432-313-1288

Project Location:
(county, state)
Loving, Lea County, NM

Project #: Incident 140

Invoice to:


Sampler Name:

Receiving Laboratory:

200

Comments: 223

223
148 on invoice

Client Name:		BTA Oil Producers, LLC		Site Manager:		Ray Ramos									
Project Name:		Harroun Ranch Battery West Fire		Project #:		432-313-1288									
Project Location:		Loving, Lea County, NM (county, state)		Project #:		Incident 148									
Invoice to:		Ray Ramos, Incident 223 223		Sampler Name:		Gilberto Sandoz									
Receiving Laboratory:		Cardinal Laboratory		Sampler Signature:											
Comments:		Reference Incident 223 223 on invoice													
LAB # H24429 (LAB USE ONLY)		SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS		FILTERED (Y/N)		BTX 8021B TPH 8015M (GRO - DRO - ORO - MRO) Chloride	
				YEAR: 2024											
1	BH-1 @ 5-5.5'	7-15-24									1				
2	BH-2 @ 5-5.5'	7-15-24	X								1				
3	BH-3 @ 5-5.5'		X								1				
4	BH-4 @ 5-5.5'		X								1				
5	SS-1 (0-1')		X								1				
6	SS-2 (0-1')		X								1				
7	SS-3 (0-1')		X								1				
8	SS-4 (0-1')		X								1				
9	SS-5 (0-1')		X								1				
10	SS-6 (0-1')		X								1				
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT			
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:					

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name: BTA Oil Producers, LLC

Site Manager: Ray Ramos

Project Name: Harroun Ranch Battery West Fire

432-313-1288

Project Location:
(county, state)
Loving, Lea County, NM

Project #: Incident 148

Invoice to: **Ray Ramos Incident #20-772**

Sampler Name: 31

Receiving Laboratory:

Cardinal Laboratory

Comments: 223
Reference Incident 418 on invoice

LAB # 11244219

SAMPLE IDENTIFICATION

LAB USE ONLY

SAMPLING		MATRIX	PRESERVATIVE METHOD
YEAR: 2024			
DATE		WATER	
		SOIL	
TIME			
		HCL	
		HNO ₃	
		ICE	
# CONTAINERS			
FILTERED (Y/N)			

BTEX 8021B
TPH 8015M (GRO - DRO - ORO - MRO)
Chloride

Hold

ANALYSIS REQUEST

Relinquished by: _____ Date: _____ Time: _____

Relinquished by: h. h. to smc Date: 7.16.24 Time: _____

Received by: Adams Date: 7-18-21 Time: 8:41

Relinquished by: _____ Date: _____ Time: _____

Received by:	Date:	Time:
--------------	-------	-------

LAB USE

REMARKS: Standard TAT

Sample Temperature

☒ **RUSH:** Same Day ☒ 24 hr ☐ 48 hr ☐ 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS

ORIGINAL COPY



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

July 31, 2024

RAY RAMOS

BTA Oil Producers

104 South Pecos

Midland, TX 79701

RE: HARROUN RANCH FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 07/26/24 14:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 01 @ 0-5' (H244474-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	2.12	106	2.00	3.61		
Toluene*	<0.050	0.050	07/30/2024	ND	2.17	108	2.00	5.66		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.30	115	2.00	4.70		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.87	115	6.00	4.36		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	187	93.7	200	1.33	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	198	99.1	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 02 @ 0-5' (H244474-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	2.24	112	2.00	0.636		
Toluene*	<0.050	0.050	07/29/2024	ND	2.40	120	2.00	1.55		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.35	117	2.00	1.75	QM-07	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.32	122	6.00	1.77	QM-07	
Total BTEX	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	736	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	187	93.7	200	1.33	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	198	99.1	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 108 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 03 @ 0-5' (H244474-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	2.24	112	2.00	0.636		
Toluene*	<0.050	0.050	07/29/2024	ND	2.40	120	2.00	1.55		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.35	117	2.00	1.75		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.32	122	6.00	1.77		
Total BTEX	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	187	93.7	200	1.33	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	198	99.1	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 04 @ 0-5' (H244474-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	2.24	112	2.00	0.636		
Toluene*	<0.050	0.050	07/29/2024	ND	2.40	120	2.00	1.55		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.35	117	2.00	1.75		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.32	122	6.00	1.77		
Total BTEX	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	187	93.7	200	1.33	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	198	99.1	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 05 @ 0-5' (H244474-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	2.24	112	2.00	0.636		
Toluene*	<0.050	0.050	07/29/2024	ND	2.40	120	2.00	1.55		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.35	117	2.00	1.75		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.32	122	6.00	1.77		
Total BTEX	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 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	800	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	187	93.7	200	1.33	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	198	99.1	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 06 @ 0-5' (H244474-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	2.24	112	2.00	0.636		
Toluene*	<0.050	0.050	07/29/2024	ND	2.40	120	2.00	1.55		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.35	117	2.00	1.75		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.32	122	6.00	1.77		
Total BTEX	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	187	93.7	200	1.33	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	198	99.1	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 07 @ 0-5' (H244474-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	2.24	112	2.00	0.636		
Toluene*	<0.050	0.050	07/29/2024	ND	2.40	120	2.00	1.55		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.35	117	2.00	1.75		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.32	122	6.00	1.77		
Total BTEX	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	187	93.7	200	1.33	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	198	99.1	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 08 @ 0-5' (H244474-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	2.24	112	2.00	0.636		
Toluene*	<0.050	0.050	07/29/2024	ND	2.40	120	2.00	1.55		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.35	117	2.00	1.75		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.32	122	6.00	1.77		
Total BTEX	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	187	93.7	200	1.33	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	198	99.1	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 09 @ 0-5' (H244474-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	2.24	112	2.00	0.636		
Toluene*	<0.050	0.050	07/29/2024	ND	2.40	120	2.00	1.55		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.35	117	2.00	1.75		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.32	122	6.00	1.77		
Total BTEX	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	187	93.7	200	1.33	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	198	99.1	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 10 @ 0-5' (H244474-10)

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	07/29/2024	ND	2.24	112	2.00	0.636		
Toluene*	<0.050	0.050	07/29/2024	ND	2.40	120	2.00	1.55		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.35	117	2.00	1.75		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.32	122	6.00	1.77		
Total BTEX	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	880	16.0	07/30/2024	ND	432	108	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	187	93.7	200	1.33	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	198	99.1	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 73.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.5 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 11 @ 0-5' (H244474-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	2.24	112	2.00	0.636		
Toluene*	<0.050	0.050	07/29/2024	ND	2.40	120	2.00	1.55		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.35	117	2.00	1.75		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.32	122	6.00	1.77		
Total BTEX	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	624	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	187	93.7	200	1.33	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	198	99.1	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 12 @ 0-5' (H244474-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	2.24	112	2.00	0.636		
Toluene*	<0.050	0.050	07/29/2024	ND	2.40	120	2.00	1.55		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.35	117	2.00	1.75		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.32	122	6.00	1.77		
Total BTEX	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	656	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	199	99.4	200	3.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	199	99.5	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

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Analytical Results For:

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

Received: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 13 @ 0-5' (H244474-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	2.24	112	2.00	0.636		
Toluene*	<0.050	0.050	07/29/2024	ND	2.40	120	2.00	1.55		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.35	117	2.00	1.75		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.32	122	6.00	1.77		
Total BTEX	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	640	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	199	99.4	200	3.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	199	99.5	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 14 @ 0-5' (H244474-14)

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	07/29/2024	ND	2.24	112	2.00	0.636		
Toluene*	<0.050	0.050	07/29/2024	ND	2.40	120	2.00	1.55		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.35	117	2.00	1.75		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.32	122	6.00	1.77		
Total BTEX	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 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	544	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	199	99.4	200	3.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	199	99.5	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 15 @ 0-5' (H244474-15)

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	07/29/2024	ND	2.24	112	2.00	0.636		
Toluene*	<0.050	0.050	07/29/2024	ND	2.40	120	2.00	1.55		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.35	117	2.00	1.75		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.32	122	6.00	1.77		
Total BTEX	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 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	688	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	199	99.4	200	3.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	199	99.5	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 103 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 16 @ 0-5' (H244474-16)

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	07/29/2024	ND	2.24	112	2.00	0.636		
Toluene*	<0.050	0.050	07/29/2024	ND	2.40	120	2.00	1.55		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.35	117	2.00	1.75		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.32	122	6.00	1.77		
Total BTEX	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 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	656	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	199	99.4	200	3.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	199	99.5	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 98.6 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 01 @ 5-5.5' (H244474-17)

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	07/29/2024	ND	2.24	112	2.00	0.636	
Toluene*	<0.050	0.050	07/29/2024	ND	2.40	120	2.00	1.55	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.35	117	2.00	1.75	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.32	122	6.00	1.77	
Total BTEX	<0.300	0.300	07/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 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	640	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	199	99.4	200	3.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	199	99.5	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 02 @ 5-5.5' (H244474-18)

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	07/30/2024	ND	2.24	112	2.00	0.636		
Toluene*	<0.050	0.050	07/30/2024	ND	2.40	120	2.00	1.55		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.35	117	2.00	1.75		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	7.32	122	6.00	1.77		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 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	640	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	199	99.4	200	3.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	199	99.5	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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Analytical Results For:

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

Received: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 03 @ 5-5.5' (H244474-19)

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	07/30/2024	ND	2.24	112	2.00	0.636		
Toluene*	<0.050	0.050	07/30/2024	ND	2.40	120	2.00	1.55		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.35	117	2.00	1.75		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	7.32	122	6.00	1.77		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 132 % 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	496	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	199	99.4	200	3.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	199	99.5	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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

Received: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 04 @ 5-5.5' (H244474-20)

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	07/30/2024	ND	2.24	112	2.00	0.636		
Toluene*	<0.050	0.050	07/30/2024	ND	2.40	120	2.00	1.55		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.35	117	2.00	1.75		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	7.32	122	6.00	1.77		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 132 % 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	576	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	199	99.4	200	3.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	199	99.5	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 74.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 49.1-148

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Analytical Results For:

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

Received: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 05 @ 5-5.5' (H244474-21)

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	07/30/2024	ND	2.24	112	2.00	0.636		
Toluene*	<0.050	0.050	07/30/2024	ND	2.40	120	2.00	1.55		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.35	117	2.00	1.75		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	7.32	122	6.00	1.77		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 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	544	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	199	99.4	200	3.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	199	99.5	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 06 @ 5-5.5' (H244474-22)

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	07/30/2024	ND	1.91	95.5	2.00	2.72		
Toluene*	<0.050	0.050	07/30/2024	ND	1.88	94.0	2.00	3.12		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.89	94.7	2.00	3.48		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.56	92.6	6.00	3.99		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	640	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	199	99.4	200	3.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	199	99.5	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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Analytical Results For:

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

Received: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 07 @ 5-5.5' (H244474-23)

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	07/30/2024	ND	1.91	95.5	2.00	2.72		
Toluene*	<0.050	0.050	07/30/2024	ND	1.88	94.0	2.00	3.12		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.89	94.7	2.00	3.48		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.56	92.6	6.00	3.99		
Total BTEx	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	560	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	199	99.4	200	3.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	199	99.5	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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

Received: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 08 @ 5-5.5' (H244474-24)

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	07/30/2024	ND	1.91	95.5	2.00	2.72		
Toluene*	<0.050	0.050	07/30/2024	ND	1.88	94.0	2.00	3.12		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.89	94.7	2.00	3.48		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.56	92.6	6.00	3.99		
Total BTEX	<0.300	0.300	07/30/2024	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	544	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	199	99.4	200	3.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	199	99.5	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 09 @ 5-5.5' (H244474-25)

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	07/30/2024	ND	1.91	95.5	2.00	2.72		
Toluene*	<0.050	0.050	07/30/2024	ND	1.88	94.0	2.00	3.12		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.89	94.7	2.00	3.48		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.56	92.6	6.00	3.99		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	592	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	199	99.4	200	3.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	199	99.5	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 10 @ 5-5.5' (H244474-26)

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	07/30/2024	ND	1.91	95.5	2.00	2.72		
Toluene*	<0.050	0.050	07/30/2024	ND	1.88	94.0	2.00	3.12		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.89	94.7	2.00	3.48		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.56	92.6	6.00	3.99		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	432	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	199	99.4	200	3.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	199	99.5	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 11 @ 5-5.5' (H244474-27)

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	07/30/2024	ND	1.91	95.5	2.00	2.72		
Toluene*	<0.050	0.050	07/30/2024	ND	1.88	94.0	2.00	3.12		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.89	94.7	2.00	3.48		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.56	92.6	6.00	3.99		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	672	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	199	99.4	200	3.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	199	99.5	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 12 @ 5-5.5' (H244474-28)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.91	95.5	2.00	2.72		
Toluene*	<0.050	0.050	07/30/2024	ND	1.88	94.0	2.00	3.12		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.89	94.7	2.00	3.48		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.56	92.6	6.00	3.99		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	672	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	199	99.4	200	3.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	199	99.5	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 13 @ 5-5.5' (H244474-29)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.91	95.5	2.00	2.72		
Toluene*	<0.050	0.050	07/30/2024	ND	1.88	94.0	2.00	3.12		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.89	94.7	2.00	3.48		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.56	92.6	6.00	3.99		
Total BTEx	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	480	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	199	99.4	200	3.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	199	99.5	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 14 @ 5-5.5' (H244474-31)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.91	95.5	2.00	2.72		
Toluene*	<0.050	0.050	07/30/2024	ND	1.88	94.0	2.00	3.12		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.89	94.7	2.00	3.48		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.56	92.6	6.00	3.99		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	528	16.0	07/30/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	199	99.4	200	3.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	199	99.5	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 15 @ 5-5.5' (H244474-32)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.91	95.5	2.00	2.72		
Toluene*	<0.050	0.050	07/30/2024	ND	1.88	94.0	2.00	3.12		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.89	94.7	2.00	3.48		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.56	92.6	6.00	3.99		
Total BTEX	<0.300	0.300	07/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	07/30/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2024	ND	199	99.4	200	3.50	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	199	99.5	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 16 @ 5-5.5' (H244474-33)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.91	95.5	2.00	2.72		
Toluene*	<0.050	0.050	07/30/2024	ND	1.88	94.0	2.00	3.12		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.89	94.7	2.00	3.48		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.56	92.6	6.00	3.99		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	07/30/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	194	97.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	201	101	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 17 @ 5-5.5' (H244474-34)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.91	95.5	2.00	2.72		
Toluene*	<0.050	0.050	07/30/2024	ND	1.88	94.0	2.00	3.12		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.89	94.7	2.00	3.48		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.56	92.6	6.00	3.99		
Total BTEX	<0.300	0.300	07/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	07/30/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	194	97.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	201	101	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 18 @ 5-5.5' (H244474-35)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.91	95.5	2.00	2.72		
Toluene*	<0.050	0.050	07/30/2024	ND	1.88	94.0	2.00	3.12		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.89	94.7	2.00	3.48		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.56	92.6	6.00	3.99		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	07/30/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	194	97.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	201	101	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 19 @ 5-5.5' (H244474-36)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.91	95.5	2.00	2.72		
Toluene*	<0.050	0.050	07/30/2024	ND	1.88	94.0	2.00	3.12		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.89	94.7	2.00	3.48		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.56	92.6	6.00	3.99		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	07/30/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	194	97.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	201	101	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

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

Received: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 20 @ 5-5.5' (H244474-37)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.91	95.5	2.00	2.72		
Toluene*	<0.050	0.050	07/30/2024	ND	1.88	94.0	2.00	3.12		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.89	94.7	2.00	3.48		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.56	92.6	6.00	3.99		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	07/30/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	194	97.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	201	101	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 21 @ 5-5.5' (H244474-38)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.91	95.5	2.00	2.72		
Toluene*	<0.050	0.050	07/30/2024	ND	1.88	94.0	2.00	3.12		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.89	94.7	2.00	3.48		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.56	92.6	6.00	3.99		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	07/30/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	194	97.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	201	101	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 22 @ 5-5.5' (H244474-39)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.91	95.5	2.00	2.72		
Toluene*	<0.050	0.050	07/30/2024	ND	1.88	94.0	2.00	3.12		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.89	94.7	2.00	3.48		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.56	92.6	6.00	3.99		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	07/30/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	194	97.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	201	101	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 23 @ 5-5.5' (H244474-40)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.91	95.5	2.00	2.72		
Toluene*	<0.050	0.050	07/30/2024	ND	1.88	94.0	2.00	3.12		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.89	94.7	2.00	3.48		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.56	92.6	6.00	3.99		
Total BTEX	<0.300	0.300	07/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	07/30/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	194	97.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	201	101	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 24 @ 5-5.5' (H244474-41)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.91	95.5	2.00	2.72		
Toluene*	<0.050	0.050	07/30/2024	ND	1.88	94.0	2.00	3.12		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.89	94.7	2.00	3.48		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.56	92.6	6.00	3.99		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	07/30/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	194	97.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	201	101	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 25 @ 5-5.5' (H244474-42)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.91	95.5	2.00	2.72		
Toluene*	<0.050	0.050	07/30/2024	ND	1.88	94.0	2.00	3.12		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.89	94.7	2.00	3.48		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.56	92.6	6.00	3.99		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	07/30/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	194	97.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	201	101	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 26 @ 5-5.5' (H244474-43)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.99	99.3	2.00	1.04		
Toluene*	<0.050	0.050	07/30/2024	ND	1.96	98.0	2.00	0.333		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.06	103	2.00	0.00821		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.08	101	6.00	0.00347		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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	544	16.0	07/30/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	194	97.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	201	101	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 96.1 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 27 @ 5-5.5' (H244474-44)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.99	99.3	2.00	1.04		
Toluene*	<0.050	0.050	07/30/2024	ND	1.96	98.0	2.00	0.333		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.06	103	2.00	0.00821		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.08	101	6.00	0.00347		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 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	464	16.0	07/30/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	194	97.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	201	101	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 28 @ 5-5.5' (H244474-45)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.99	99.3	2.00	1.04		
Toluene*	<0.050	0.050	07/30/2024	ND	1.96	98.0	2.00	0.333		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.06	103	2.00	0.00821		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.08	101	6.00	0.00347		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	07/30/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	194	97.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	201	101	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 139 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 29 @ 5-5.5' (H244474-46)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.99	99.3	2.00	1.04		
Toluene*	<0.050	0.050	07/30/2024	ND	1.96	98.0	2.00	0.333		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.06	103	2.00	0.00821		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.08	101	6.00	0.00347		
Total BTEx	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	512	16.0	07/30/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	194	97.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	201	101	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 139 % 49.1-148

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Analytical Results For:

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

Received: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 30 @ 5-5.5' (H244474-47)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.99	99.3	2.00	1.04		
Toluene*	<0.050	0.050	07/30/2024	ND	1.96	98.0	2.00	0.333		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.06	103	2.00	0.00821		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.08	101	6.00	0.00347		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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	512	16.0	07/30/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	194	97.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	201	101	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 114 % 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: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 31 @ 5-5.5' (H244474-48)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.99	99.3	2.00	1.04		
Toluene*	<0.050	0.050	07/30/2024	ND	1.96	98.0	2.00	0.333		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.06	103	2.00	0.00821		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.08	101	6.00	0.00347		
Total BTEx	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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	592	16.0	07/30/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	194	97.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	201	101	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 32 @ 5-5.5' (H244474-49)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2024	ND	1.99	99.3	2.00	1.04	
Toluene*	<0.050	0.050	07/30/2024	ND	1.96	98.0	2.00	0.333	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.06	103	2.00	0.00821	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.08	101	6.00	0.00347	
Total BTEX	<0.300	0.300	07/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	07/30/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2024	ND	194	97.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	201	101	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/26/2024
 Reported: 07/31/2024
 Project Name: HARROUN RANCH FLOWLINE
 Project Number: INCIDENT 223
 Project Location: LOVING, LEA COUNTY, NM

Sampling Date: 07/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 33 @ 5-5.5' (H244474-50)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2024	ND	1.99	99.3	2.00	1.04	
Toluene*	<0.050	0.050	07/30/2024	ND	1.96	98.0	2.00	0.333	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.06	103	2.00	0.00821	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.08	101	6.00	0.00347	
Total BTEX	<0.300	0.300	07/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	07/30/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2024	ND	194	97.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	201	101	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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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*=Accredited Analyte

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

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

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name:	BTA Oil Producers LLC	Site Manager:	Ray Barnes
--------------	-----------------------	---------------	------------

BTA Oil Producers, LLC

Project Name: Flowline

Harroun Ranch Battery, West of the

Project Location:
(county, state)

Loving, Lea County, NM

Invoice to: _____

Receiving Laboratory:

Cardinal Laboratory

Reference Incident 148 on invoice

LAB # _____ SAMPLE IDENTIFICATION _____
 (LAB USE ONLY)

DATE
TIME

YEAR: 2024

SAMPLING

**PRESERVATIVE
METHOD**

CONTAINERS

FILTERED (Y/N)

BTEX 8021B

TPH 8015M (GRO - DRO - ORO - MRO)

Chloride

ANALYSIS REQUEST

Page 1 of 5

Page 52 of 56

Relinquished by: _____ Date: _____ Time _____

Relinquished by: Gilberto Sanchez Date: 7-26-84

Relinquished by: _____ Date: _____ Time: _____

Received by:

Date: _____ Time: _____

144

77-2402

10

1

Sample Temperature

a T

☒ **NOON** ☐ **40 HR** ☐ **72 HR**

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle)	HAND DELIVERED	FEDEX	UPS	Tracking #

ORIGINAL COPY

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Page 2 of 5

Client Name:		BTA Oil Producers, LLC		Site Manager:		Ray Ramos		ANALYSIS REQUEST																			
Project Name:		Haroun Ranch <i>Flowline</i>		Project #:		432-313-1288																					
Project Location:		Loving, Lea County, NM		Project #:		Incident 148 223																					
Invoice to:		Ray Ramos, Incident 148		Sample Name:		<i>Alberto Sanchez</i>																					
Receiving Laboratory:		Cardinal Laboratory		Sampler Signature:		<i>[Signature]</i>																					
Comments:		Reference Incident 148 on Invoice																									
LAB # <i>H24448</i> <i>7-26-24</i> <i>7-26-24</i>		SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS		FILTERED (Y/N)															
				YEAR, 2024																							
LAB USE ONLY				DATE		TIME		WATER		SOIL		HCL		HNO ₃		ICE											
11		Sw-11 @ 0-5'		7-25-24		10:47		X		X		X		X		X											
12		Sw-12 @ 0-5'				11:15		X		X		X		X		X											
13		Sw-13 @ 0-5'				11:41		X		X		X		X		X											
14		Sw-14 @ 0-5'				12:08		X		X		X		X		X											
15		Sw-15 @ 0-5'				12:37		X		X		X		X		X											
16		Sw-16 @ 0-5'				1:24		X		X		X		X		X											
17		B4-1 @ 5-5.5'				2:11		X		X		X		X		X											
18		B4-2 @ 5-5.5'				2:53		X		X		X		X		X											
19		B4-3 @ 5-5.5'				3:15		X		X		X		X		X											
20		B4-4 @ 5-5.5'				3:50		X		X		X		X		X											
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:																	
<i>Alberto Sanchez</i>		7-26-24		<i>Alberto Sanchez</i>		7-26-24		1440		Standard TAT																	
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:																	
<i>Alberto Sanchez</i>		7-26-24		<i>Alberto Sanchez</i>		7-26-24		1440		Standard TAT																	
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:																	
<i>Alberto Sanchez</i>		7-26-24		<i>Alberto Sanchez</i>		7-26-24		1440		Standard TAT																	
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:																	
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Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:																	
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Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:																	
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Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:																	
<i>Alberto Sanchez</i>		7-26-24		<i>Alberto Sanchez</i>		7-26-24		1440		Standard TAT																	
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:																	
<i>Alberto Sanchez</i>		7-26-24		<i>Alberto Sanchez</i>		7-26-24		1440		Standard TAT																	
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:																	
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Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:																	
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Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:																	
<i>Alberto Sanchez</i>		7-26-24		<i>Alberto Sanchez</i>		7-26-24		1440		Standard TAT																	
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:																	
<i>Alberto Sanchez</i>		7-26-24		<i>Alberto Sanchez</i>		7-26-24		1440		Standard TAT																	
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:																	
<i>Alberto Sanchez</i>		7-26-24		<i>Alberto Sanchez</i>		7-26-24		1440		Standard TAT																	
Relinquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:																	
<i>Alberto Sanchez</i>		7-26-24		<i>Alberto Sanchez</i>																							

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Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Page 3 of 5

Client Name:		BTA Oil Producers, LLC		Site Manager:		Ray Ramos		ANALYSIS REQUEST																							
Project Name:		Harroun Ranch Barney West <u>Flange Line</u>		Project #:		432-313-1288																									
Project Location:		Loving, Lea County, NM		Project #:		Incident 148 <u>223</u>																									
Invoice to:		Ray Ramos, Incident 148		Sample Name:		<u>Gilberto Sanchez</u>																									
Receiving Laboratory:		Cardinal Laboratory		Sample Signature:		<u>[Signature]</u>																									
Comments:		Reference Incident 148 on Invoice																													
LAB #		SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS		FILTERED (Y/N)																			
LAB USE ONLY				YEAR: 2024																											
				DATE		TIME		WATER		SOIL		HCL		HNO ₃		ICE															
21		BH-05 @ 5-5.5'		7-25		4:01		X				X				1															
22		BH-06 @ 5-5.5'				4:15		X				X				1															
23		BH-07 @ 5-5.5'				4:29		X				X				1															
24		BH-08 @ 5-5.5'				4:36		X				X				1															
25		BH-09 @ 5-5.5'				4:43		X				X				1															
26		BH-10 @ 5-5.5'				4:47		X				X				1															
27		BH-11 @ 5-5.5'				4:51		X				X				1															
28		BH-12 @ 5-5.5'				5:06		X				X				1															
29		BH-13 @ 5-5.5'				5:12		X				X				1															
30		BH-14 @ 5-5.5'						X				X				1															
Relinquished by:		Date: Time:		Received by:		Date: Time:												LAB USE ONLY		REMARKS:											
Gilberto Sanchez		7-26-24		[Signature]		7-26-24												Sample Temperature		Standard TAT											
Relinquished by:		Date: Time:		Received by:		Date: Time:												24°C		<input checked="" type="checkbox"/> Rush: Same Day <input checked="" type="checkbox"/> 48 hr <input type="checkbox"/> 72 hr											
Relinquished by:		Date: Time:		Received by:		Date: Time:												#140		<input type="checkbox"/> Rush Charges Authorized											
																				<input type="checkbox"/> Special Report Limits or TRRP Report											

Page 54 of 56

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Page 4 of 5[illegible]

Analysis Request of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name: BTA Oil Producers, LLC
Site Manager: Ray Ramos

Project Name: Harroun Ranch *Flourline*
432-313-1288

Project Location: Loving, Lea County, NM
Project #: Incident ~~223~~ 223

Invoice to: Ray Ramos, Incident 148
Sampler Name: *Allyssa Sanchez*
Sampler Signature: *[Signature]*

Receiving Laboratory: Cardinal Laboratory

Comments: Reference Incident 148 on invoice

LAB # (LAB USE ONLY)	H24474	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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41	BH-24 P) S-S.S'	7-26-24	11:23	X				X		1		X	X	X					
42	BH-25 P) S-S.S'		11:37	X				X		1		X	X	X					
43	BH-26 P) S-S.S'		11:59	X				X		1		X	X	X					
44	BH-27 P) S-S.S'		12:05	X				X		1		X	X	X					
45	BH-28 P) S-S.S'		12:17	X				X		1		X	X	X					
46	BH-29 P) S-S.S'		12:28	X				X		1		X	X	X					
47	BH-30 P) S-S.S'		12:41	X				X		1		X	X	X					
48	BH-31 P) S-S.S'		12:52	X				X		1		X	X	X					
49	BH-32 P) S-S.S'		1:07	X				X		1		X	X	X					
50	BH-33 P) S-S.S'		1:20	X				X		1		X	X	X					

Relinquished by: *Allyssa Sanchez* Date: 7-26-24 Time: *1440*

Relinquished by: *[Signature]* Date: *7-26-24* Time: *1440*

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

LAB USE ONLY

Sample Temperature: *27.4°C*

REMARKS: *Standard TAT*

☒ RUSH: Same Day ☒ 24 hr ☐ 48 hr ☐ 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

ORIGINAL COPY

Site Characterization and Remediation Work Plan
BTA Oil Producers, LLC
Harroun Ranch West Flowline Release
Incident ID# nAPP2416548667

September 30, 2024

ATTACHMENT 3 – PHOTOGRAPHIC DOCUMENTATION









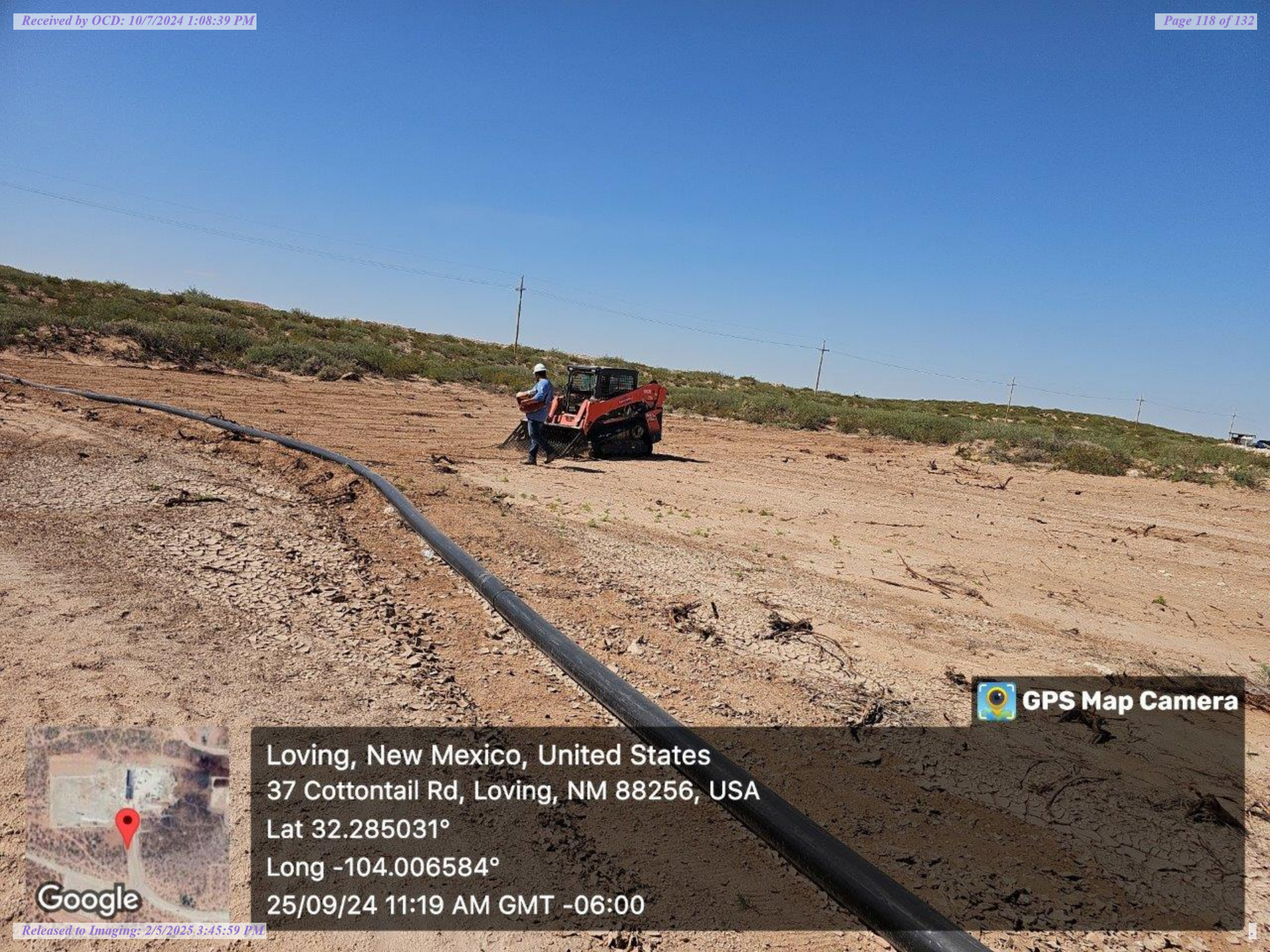












 **GPS Map Camera**



Loving, New Mexico, United States
37 Cottontail Rd, Loving, NM 88256, USA
Lat 32.285031°
Long -104.006584°
25/09/24 11:19 AM GMT -06:00



 **GPS Map Camera**

Loving, New Mexico, United States
37 Cottontail Rd, Loving, NM 88256, USA
Lat 32.285674°
Long -104.006594°
25/09/24 02:16 PM GMT -06:00







 **GPS Map Camera**



Loving, New Mexico, United States
37 Cottontail Rd, Loving, NM 88256, USA
Lat 32.285684°
Long -104.006539°
25/09/24 11:54 AM GMT -06:00

Site Characterization and Remediation Work Plan
BTA Oil Producers, LLC
Harroun Ranch West Flowline Release
Incident ID# nAPP2416548667

September 30, 2024

ATTACHMENT 4 – SEED MIX

NMSLO Seed Mix**Loamy (L)****LOAMY (L) SITES SEED MIXTURE:**

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Black grama	VNS, Southern	1.0	D
Blue grama	Lovington	1.0	D
Sideoats grama	Vaughn, El Reno	4.0	F
Sand dropseed	VNS, Southern	2.0	S
Alkali sacaton	VNS, Southern	1.0	
Little bluestem	Cimarron, Pastura	1.5	F
Forbs:			
Firewheel (<i>Gaillardia</i>)	VNS, Southern	1.0	D
Shrubs:			
Fourwing saltbush	Marana, Santa Rita	1.0	D
Common winterfat	VNS, Southern	0.5	F
Total PLS/acre		18.0	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at <http://plants.usda.gov>.



Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 390435

QUESTIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 390435
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2416548667
Incident Name	NAPP2416548667 HARROUN RANCH WEST TB RELEASE @ 0
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Facility	[fAPP2129830694] Harroun Ranch East

Location of Release Source	
Please answer all the questions in this group.	
Site Name	HARROUN RANCH WEST TB RELEASE
Date Release Discovered	06/12/2024
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Human Error Flow Line - Production Produced Water Released: 15 BBL Recovered: 7 BBL Lost: 8 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)	on June 12, 2024, an operator switched production to an open-ended line that had been cut due to a recent fire reported under a separate incident at the facility. The open-ended line released approximately 15 bbls of produced water before the operator switched over to an uncut line.

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

QUESTIONS, Page 2

Action 390435

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 390435
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

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 Title: Program Manager Email: chuck.terhune@tetrattech.com Date: 06/13/2024
--	--

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

QUESTIONS, Page 3

Action 390435

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 390435
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	Estimate or Other
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
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 500 and 1000 (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	Between 1 and 5 (mi.)
A wetland	Between 500 and 1000 (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	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	1600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	06/14/2024
On what date will (or did) the final sampling or liner inspection occur	08/05/2024
On what date will (or was) the remediation complete(d)	08/04/2024
What is the estimated surface area (in square feet) that will be reclaimed	13600
What is the estimated volume (in cubic yards) that will be reclaimed	2518
What is the estimated surface area (in square feet) that will be remediated	13600
What is the estimated volume (in cubic yards) that will be remediated	2518
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 390435

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 390435
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetrattech.com Date: 07/19/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Santa Fe, NM 87505

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Action 390435

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 390435
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
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.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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Action 390435

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 390435
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	366910
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/26/2024
What was the (estimated) number of samples that were to be gathered	25
What was the sampling surface area in square feet	6000

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	8000
What was the total volume (cubic yards) remediated	1660
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	8000
What was the total volume (in cubic yards) reclaimed	1660
Summarize any additional remediation activities not included by answers (above)	None

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetrattech.com Date: 10/07/2024
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Action 390435

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 390435
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	8000
What was the total volume of replacement material (in cubic yards) for this site	1770
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	09/25/2024
Summarize any additional reclamation activities not included by answers (above)	impacted material above reclamation requirements was removed, clean fill sourced from a nearby pit was trucked in and used to backfill the hole. The site was seeded via hand broadcast and was raked/harrowed in with a skid steer fitted with a rake/harrow attachment.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetrattech.com Date: 10/07/2024

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Action 390435

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 390435
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 390435

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 390435
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	2/5/2025