Remediation Summary and Closure Request

FAE II Operating, LLC
Farnsworth 4 #7
Lea County, New Mexico
Unit Letter "F", Section 4, Township 26 South, Range 37 East
Latitude 32.074211 North, Longitude 103.169078 West
NMOCD Incident # nAPP2225654053

Prepared For:

FAE II Operating, LLC
11757 Katy Freeway, Suite 725
Houston, TX 77079

Prepared By:

Hungry Horse, LLC
4024 Plains Hwy
Lovington, NM 88260
Office: (575) 393-3386

August 2024

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HUNGRY HORSE, LLC

The following *Remediation Summary and Closure Request* serves as a condensed update on field activities undertaken at the afore referenced Site.

Background:

The site is located in Unit Letter F (SE/NW), Section 4, Township 26 South, Range 37 East, approximately two miles Southeast of Jal, in Lea County, New Mexico. The site is located on Bureau of Land Management land Topographic Map, OSE POD Locations Map, and USGS Well Locations Map are included as Figure 1, Figure 2, and Figure 3, respectively.

The release occurred on an active flowline; Latitude 32.074211 North, Longitude 103.169078 West. The Initial NMOCD Form C-141 indicated that on September 13, 2022 approximately 110 bbls of produced water were released due to a hole in the discharge line. Approximately 100 bbls of produced water were recovered. Submitted Notice of Release and Form C-141 are available on the NMOCD Imaging System.

NMOCD Site Classification:

A search of the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) groundwater databases was completed in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Approximate depth to groundwater was determined using maintained and published water well data. Karst mapping indicates the site is located in an Erosional Karst designated area. Karst and Wetland Maps are provided as Attachment I. Depth to groundwater information is provided as Attachment V and the results are depicted on Figures 2 & 3.

No wells were located within a half mile of the release area. Also, as the release occurred within an Erosional Karst designated area, the site was remediated according to the strictest NMOCD Closure Criteria. Utilizing this information, the NMOCD Closure Criteria for the Site were determined as follows:

Depth to Groundwater	Constituent	Method	Limit
<50’	Chloride	EPA 300.0 or SM4500 CLB	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg
	GRO + DRO	EPA SW-846 Method 8015M Ext	NA
	BTEX	EPA SW-846 Methods 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Methods 8021B or 8260B	10 mg/kg

A United States Department of Agriculture (USDA) Web Soil Survey was completed to determine soil types in the area of reclamation. Web Soil Survey indicates the area is located in the Pyote and Maljamar fine sands comprised of fine sand soils with 0 to 3 percent slopes. As the release occurred within an active tank battery, no seeding will be required. Karst, Wetland, and Soil Maps are provided as Attachment I.

Delineation and Remediation Activities:

On February 15, 2024, Hungry Horse conducted an initial site assessment consisting of photographing and mapping the release area. On February 20, 2024, delineation sampling was conducted via hand auger. Surface samples were collected with a small hand-held shovel, cleaned off between collection of each sample. During sampling, hand augered test bores were advanced throughout the affected area in an effort to determine the vertical extent of contamination. These sample locations are identified by SP designation. In addition, hand augered sample bores were advanced along the outside edges of the affected area in an effort to determine the horizontal extent of contamination. These sample locations are identified by HZ designation. During the advancement of the hand augered sample bores, soil samples were collected from the surface and at one-foot intervals, field screened for the presence of chloride concentrations utilizing a Hach Quantab® chloride test kit until field screening indicated chloride contaminant concentrations were below NMOCD Closure Criteria.

Based on field observations and field test data noted above and provided in Attachment IV, ten representative soil samples were selected for laboratory analysis. Delineation soil samples SP1 and SP2, and HZ1 through HZ4, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples, with the exception of SP1 and SP2 at Surface, which exhibited TPH and chloride concentrations in excess of NMOCD Closure Criteria.

From June 28 – July 3, 2024, the release area was excavated to an approximate depth of five feet bgs. A hydro-excavator was initially utilized to excavate around process equipment. When the lines had been exposed, a backhoe finished the excavation. Excavated contaminated soil was temporarily stockpiled onsite, within the excavation, before transport to an NMOCD approved disposal facility. Hydro-excavated material was immediately transported to a disposal facility.

On July 24, 2024, Hungry Horse LLC notified NMOCD that fifteen closure samples would be collected on July 29, 2024. Correspondence is provided as Attachment II.

On July 29, 2024, fifteen five-point composite confirmation soil samples were collected from the excavation floor and sidewalls, with each sample representing no more than 200 square feet. Soil samples FL1 through FL7, and SW1 through SW8, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples.

The excavated area measured approximately five hundred sixty square feet. During remediation activities approximately 120 cubic yards of impacted soil were excavated and hauled to an NMOCD approved disposal facility.

A Delineation Sample Map and Excavation Sample Map are provided as Figure 4 and Figure 5, respectively. A Summary of Soil Sample Laboratory Analytical Results is provided as Table 1 and Laboratory Analytical Reports are provided as Attachment VI.

Sampling Procedure and Identification:

During confirmation sampling, five-point composite soil samples were collected from the floor of the excavation, each collected sample representing an area no greater than 200 square feet. These sample locations are identified by FL designation. Five-point composite soil samples were also collected from the sidewalls of the excavation, with each collected sample representing an area no greater than 200 square feet. These sample locations are identified by SW designation.

Excavation sidewall samples SW1 through SW8 were collected as five-point composite samples collected from the sidewalls of the excavation, from the excavation surface to the excavation floor. Excavation Sample Map, provided as Figure 5, depicts sidewall sample boundaries.

Restoration, Reclamation, and Re-Vegetation:

Based upon laboratory analytical results from confirmation soil samples, the excavation was backfilled with locally sourced, clean, non-impacted caliche. The area was contoured to achieve erosion control. As the release occurred within a tank battery, no seeding will be required.

Closure Request:

Remediation activities were conducted in accordance with applicable NMOCD Regulations. Soil affected above the NMOCD Closure Criteria has been excavated and hauled to an NMOCD approved facility for disposal. Laboratory analytical results from composite confirmation samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria.

Based on laboratory analytical results, FAE II Operating, LLC respectfully requests closure of the Farnsworth 4 #7 location, nAPP2225654053.

Limitations:

Hungry Horse, LLC, has prepared this *Remediation Summary and Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Hungry Horse has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Hungry Horse has not conducted an independent examination of the facts contained in referenced materials and statements. Hungry Horse has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Hungry Horse notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

Distribution:

FAE II Operating, LLC
11757 Katy Freeway, Suite 725
Houston, TX 77079

New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 2
811 S. First St.
Artesia, NM 88210

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

Figures

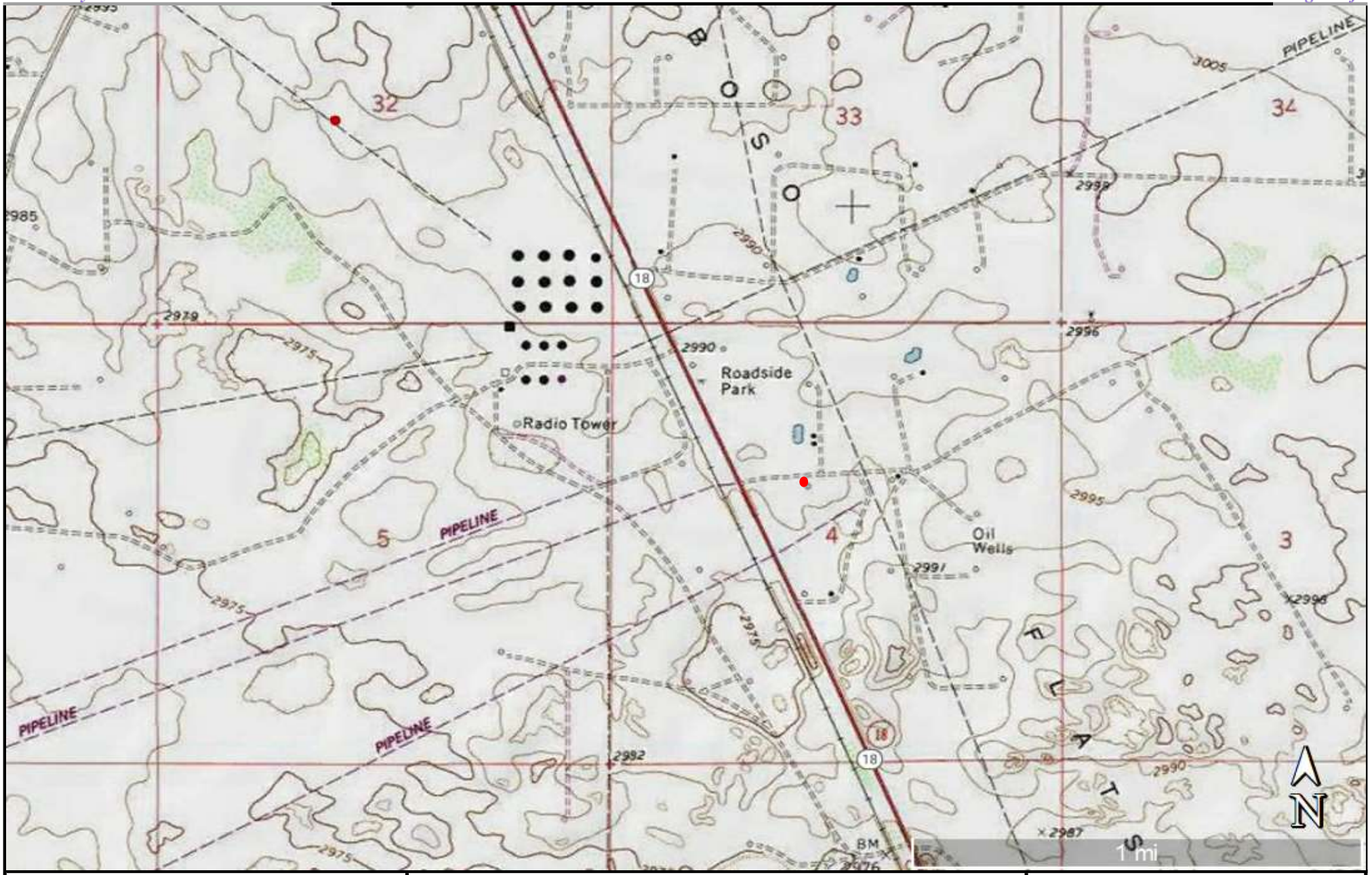


Figure 1
Topographic Map
FAE II Operating, LLC
Farnsworth 4 #7
GPS: 32.074211, -103.169078
Lea County

Legend:
- Farnsworth 4 #7 Location

Drafted: dd
Checked: bw
Date: 2/14/24

HUNGRY HORSE ENVIRONMENTAL & CONSTRUCTION

Figure 2
OSE POD Locations Map
FAE II Operating, LLC
Farnsworth 4 #7
GPS: 32.074211, -103.169078
Lea County

Legend:
- Farnsworth 4 #7 Location

Drafted: dd
Checked: bw
Date: 2/14/24

HUNGRY HORSE ENVIRONMENTAL & CONSTRUCTION

Figure 3
USGS Well Locations Map
FAE II Operating, LLC
Farnsworth 4 #7
GPS: 32.074211, -103.169078
Lea County

Legend:
- Farnsworth 4 #7 Location

Drafted: dd
Checked: bw
Date: 2/14/24

HUNGRY HORSE ENVIRONMENTAL & CONSTRUCTION

Figure 4
Delineation Sample Map
FAE II Operating, LLC
Farnsworth 4 #7
GPS: 32.074211, -103.169078
Lea County

Legend:
Release Area
SP1 Delineation Sample Location

Drafted: dd
Checked: bw
Date: 2/19/24

HUNGRY HORSE ENVIRONMENTAL & CONSTRUCTION

Figure 5
Excavation Sample Map
FAE II Operating, LLC
Farnsworth 4 #7
GPS: 32.074211, -103.169078
Lea County

Legend:

- Excavation areas
- Composite Confirmation Sample 200 Square Foot Area
- FL1 — Composite Confirmation Sample Location
- SW1 — Composite Confirmation Sidewall Sample Location
- Sidewall Sample Boundary

Drafted: dd
Checked: bw
Date: 7/26/24

HUNGRY HORSE ENVIRONMENTAL & CONSTRUCTION

Table

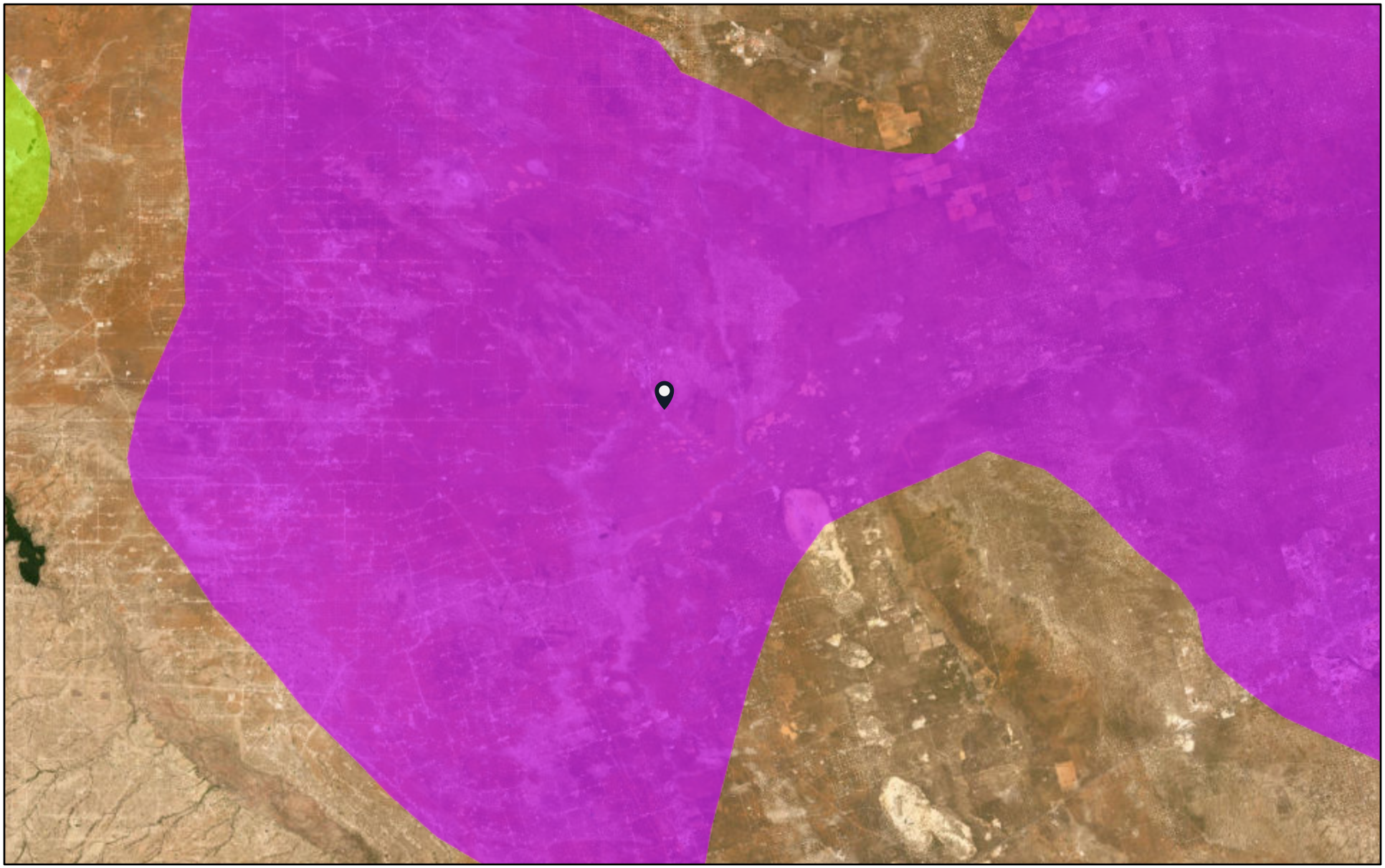
TABLE 1
Summary of Soil Sample Laboratory Analytical Results
FAE II Operating, LLC
Farnsworth 4 #7
NMOCD Ref. #: nAPP2225654053

Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C_6-C_{10} (mg/kg)	DRO C_{10}-C_{28} (mg/kg)	GRO + DRO C_6-C_{28} (mg/kg)	ORO C_{28}-C_{36} (mg/kg)	TPH C_6-C_{36} (mg/kg)	Chloride (mg/kg)
SP1	2/20/24	Surf	Excavated	<0.050	1.71	177	16,400	16,577	3,520	**20,097**	**2,760**
SP2	2/20/24	Surf	Excavated	<0.050	20.5	1,220	31,400	32,620	23.5	**32,643.5**	**736**
HZ1	2/20/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
	2/20/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
HZ2	2/20/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
	2/20/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
HZ3	2/20/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
	2/20/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
HZ4	2/20/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
	2/20/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NMOCD Closure Criteria				**10**	**50**	**-**	**-**	**N/A**	**-**	**100**	**600**
FL1	7/29/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL2	7/29/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL3	7/29/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL4	7/29/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL5	7/29/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL6	7/29/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL7	7/29/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW1	7/29/24	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW2	7/29/24	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW3	7/29/24	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW4	7/29/24	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW5	7/29/24	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW6	7/29/24	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW7	7/29/24	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW8	7/29/24	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NMOCD Closure Criteria				**10**	**50**	**-**	**-**	**N/A**	**-**	**100**	**600**

NOTES:
- = Sample not analyzed for that constituent.
Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Attachment I
Karst, Wetland, and Soil Maps

Farnsworth 4 #7 SWD



8/30/2024

Karst Type

- Carbonate
- Erosional
- Gypsum
- Volcanic

World Imagery

Low Resolution 15m Imagery

High Resolution 60cm Imagery

High Resolution 30cm Imagery

Citations

150m Resolution Metadata

1:715,559

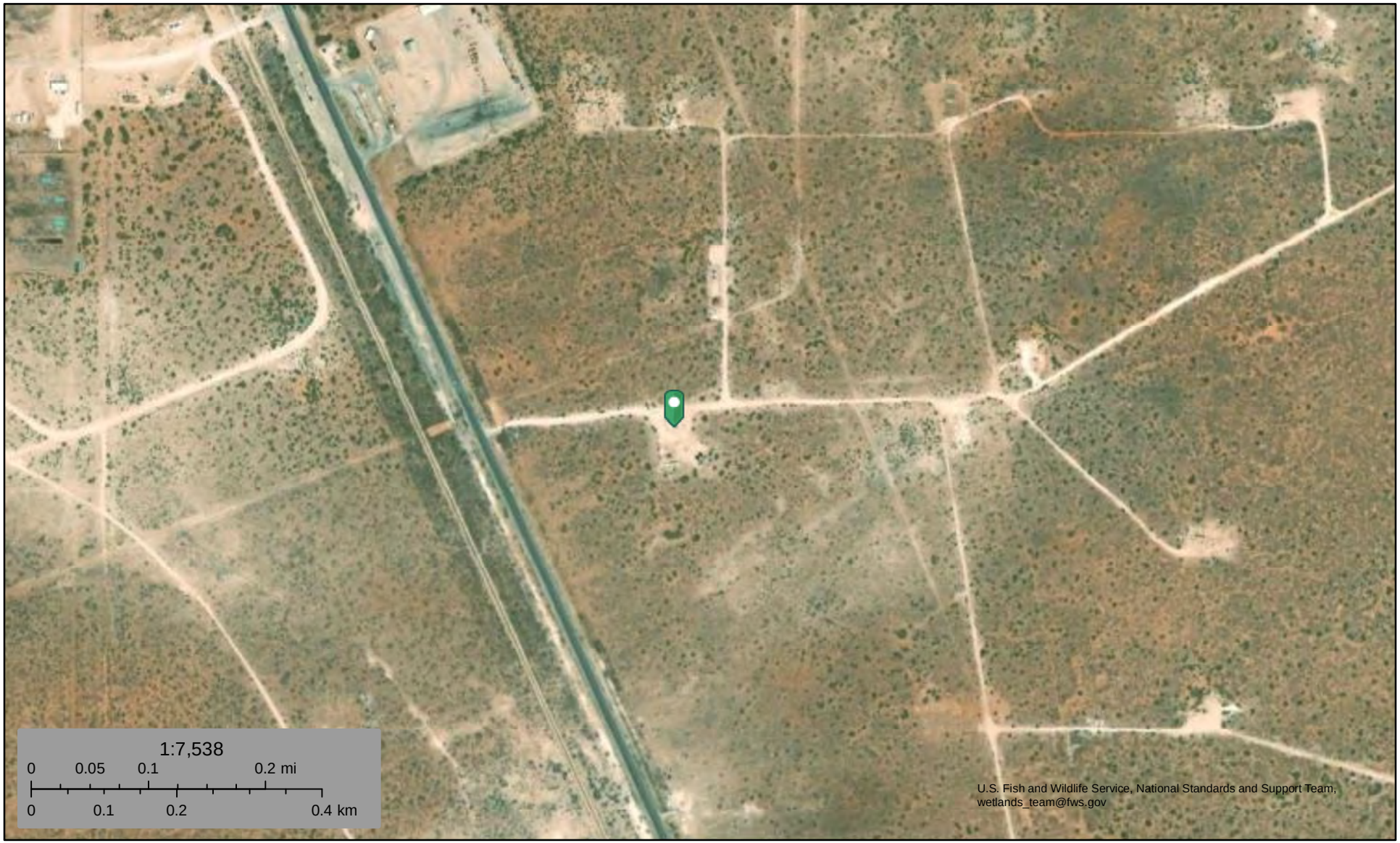
0 5 10 20 mi

0 5 10 20 km

U.S. Geological Survey Open-File Report 2004-1352, Caves and Karst in the U.S. National Park Service, AGI Karst Map of the US., Earthstar Geographics

U.S. Fish and Wildlife Service
National Wetlands Inventory

Farnsworth 4 #7 SWD



August 30, 2024

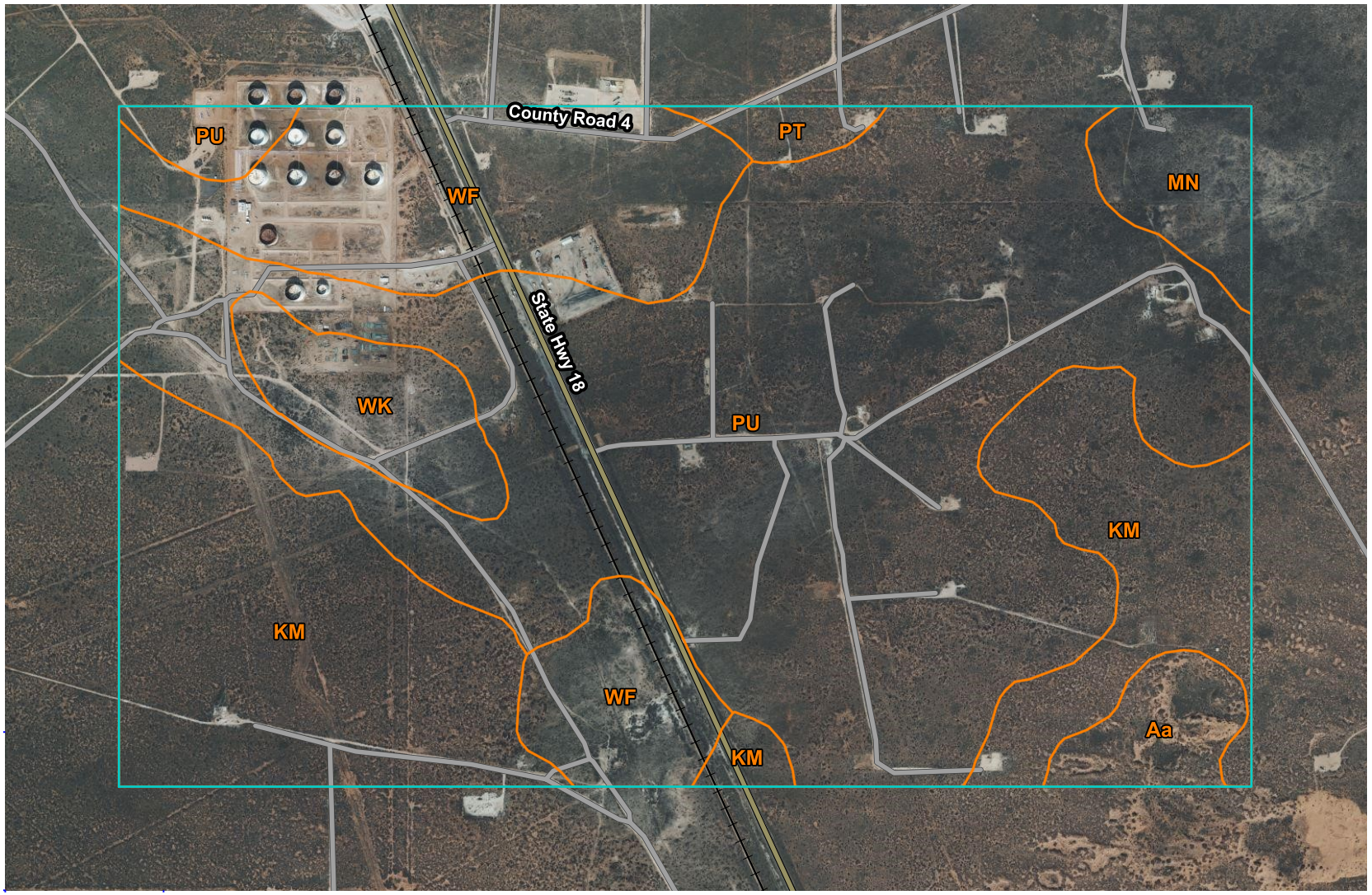
Wetlands

- 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.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Soil Map—Lea County, New Mexico
(Farnsworth 4 #7 SWD)



Soil Map—Lea County, New Mexico
(Farnsworth 4 #7 SWD)

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.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 20, Sep 6, 2023

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

Date(s) aerial images were photographed: Jan 18, 2020—Feb 17, 2020

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Aa	Active dune land	25.7	2.4%
KM	Kermit soils and Dune land, 0 to 12 percent slopes	256.3	23.9%
MN	Ratliff-Wink fine sandy loams	31.3	2.9%
PT	Pyote loamy fine sand	10.7	1.0%
PU	Pyote and Maljamar fine sands	537.1	50.1%
WF	Wink fine sand	167.9	15.7%
WK	Wink loamy fine sand	43.3	4.0%
Totals for Area of Interest		**1,072.4**	**100.0%**

Lea County, New Mexico

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq
Elevation: 3,000 to 3,900 feet
Mean annual precipitation: 10 to 12 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent
Maljamar and similar soils: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand
Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e

Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Maljamar

Setting

Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand
Bt - 24 to 50 inches: sandy clay loam
Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
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: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent
Ecological site: R070BC022NM - Sandhills

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 20, Sep 6, 2023

Attachment II
NMOCD Correspondence

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 366935

QUESTIONS

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 366935
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2225654053**
Incident Name	**NAPP2225654053 FARNSWORTH 4 #007 @ 30-025-11942**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Well	**[30-025-11942] FARNSWORTH 4 #007**

Location of Release Source	
Site Name	**FARNSWORTH 4 #007**
Date Release Discovered	**09/13/2022**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	544
What is the estimated number of samples that will be gathered	15
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/29/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jerry Heidelberg (575) 390-3639 will be collecting 15 total samples; 7 Floor samples & 8 Sidewall samples.
Please provide any information necessary for navigation to sampling site	GPS Coordinates: 32.074391, -103.168994

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 366935
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
alexbolanos	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	7/24/2024

Attachment III
Site Photographs

Photographs

Photo: 1	Description: Release area.

Photo: 2	Description: Release area.

Photographs

Photo: 3	Description: Release area.

Photo: 4	Description: Release area.

Photographs

Photo: 5	Description: Excavation.

Photo: 6	Description: Excavation.

Photographs

Photo: 7	Description: Excavation.

Photo: 8	Description: Overhead photo of completed excavation.

Photographs

Photo: 9	Description: Backfilled with caliche to surface.

Photo: 10	Description: Backfilled with caliche to surface.

Photographs

Photo: 11	Description: Backfilled with caliche to surface.

Photo: 12	Description: Backfilled with caliche to surface.

Attachment IV
Field Data

Sample Log

Hungry Horse, LLC

Project: Farnsworth 4 #7

Karst: **No** Water: **<50'**

Standard: TPH 100mg/kg, Chloride 600mg/kg

Date:

GPS: 32.074211, -103.169078

Sampler: Jerry Heidelberg

Sample ID	Depth	PID/Odor	Chloride	GPS
HZ 1	Surf	ND	1.8@ 42X4=168	
	1'		1.0@ 35X4=140	
HZ 2	Surf	ND	1.0@ 35X4=140	
	1'		1.4@ 29X4=116	
HZ 3	Surf	ND	1.8@ 42X4=168	
	1'		1.0@ 35X4=140	
HZ4	Surf	ND	1.8@ 42X4=168	
	1'		1.0@ 35X4=140	
SP1	Surf	Yes	7.8@ 598X4=2,392	
	1'	Yes	5.6@ 279X4=1,116	
	2'	Little	3.4@ 113X4=452	
	3'	Little	5.2@ 242X4=968	
	4'	ND	4.2@ 163X4=652	
SP2	Surf	Yes	4.8@ 208X4=832	
	1'	Yes	5.0@ 224X4=896	
	2'	ND	3.4@ 113X4=452	
	3'	ND	3.8@ 137X4=548	
	4'	ND	5.8@ 299X4=1196	

Sample Point = SP1 @ ## etc

Floor = FL1 etc

Sidewall = SW1 etc

Horizontal = HZ1 etc

Refusal = SP1 @ 4'-R

GPS Sample Points, Center of Comp Areas

Test Trench = TT1 @ ##

Resamples= SP1b @ 5' or SW #1b

Stockpile = Stockpile #1

Attachment V
Depth to Groundwater

New Mexico Office of the State Engineer

Wells With Well Log Information

No report data available.

UTM Filters (in meters):

Easting: 672821.00

Northing: 3550148.00

Radius: 805

*** UTM location was derived from PLSS - see Help**

Attachment VI
Laboratory Analytical Reports

CARDINAL Laboratories

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

February 27, 2024

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: FARNSWORTH 4 # 7

Enclosed are the results of analyses for samples received by the laboratory on 02/21/24 15:37.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	02/21/2024	Sampling Date:	02/20/2024
Reported:	02/27/2024	Sampling Type:	Soil
Project Name:	FARNSWORTH 4 # 7	Sampling Condition:	Cool & Intact
Project Number:	FAE II OPERATING	Sample Received By:	Dionica Hinojos
Project Location:	UL / F SEC 4 T26S - R37E		

Sample ID: HZ 1 - SURF (H240862-01)

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	02/25/2024	ND	2.15	107	2.00	2.07	
Toluene*	<0.050	0.050	02/25/2024	ND	2.12	106	2.00	2.11	
Ethylbenzene*	<0.050	0.050	02/25/2024	ND	2.09	104	2.00	1.83	
Total Xylenes*	<0.150	0.150	02/25/2024	ND	6.10	102	6.00	1.71	
Total BTEX	<0.300	0.300	02/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.6 %* *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	**80.0**	16.0	02/26/2024	ND	464	116	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	02/23/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	203	101	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane *84.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *78.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	02/21/2024	Sampling Date:	02/20/2024
Reported:	02/27/2024	Sampling Type:	Soil
Project Name:	FARNSWORTH 4 # 7	Sampling Condition:	Cool & Intact
Project Number:	FAE II OPERATING	Sample Received By:	Dionica Hinojos
Project Location:	UL / F SEC 4 T26S - R37E		

Sample ID: HZ 1 - 1' (H240862-02)

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	02/25/2024	ND	2.15	107	2.00	2.07	
Toluene*	<0.050	0.050	02/25/2024	ND	2.12	106	2.00	2.11	
Ethylbenzene*	<0.050	0.050	02/25/2024	ND	2.09	104	2.00	1.83	
Total Xylenes*	<0.150	0.150	02/25/2024	ND	6.10	102	6.00	1.71	
Total BTEX	<0.300	0.300	02/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.6 %* *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	**64.0**	16.0	02/26/2024	ND	464	116	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	02/23/2024	ND	187	93.7	200	0.474	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	181	90.4	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane *79.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *70.8 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	02/21/2024	Sampling Date:	02/20/2024
Reported:	02/27/2024	Sampling Type:	Soil
Project Name:	FARNSWORTH 4 # 7	Sampling Condition:	Cool & Intact
Project Number:	FAE II OPERATING	Sample Received By:	Dionica Hinojos
Project Location:	UL / F SEC 4 T26S - R37E		

Sample ID: HZ 2 - SURF (H240862-03)

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	02/25/2024	ND	2.15	107	2.00	2.07	
Toluene*	<0.050	0.050	02/25/2024	ND	2.12	106	2.00	2.11	
Ethylbenzene*	<0.050	0.050	02/25/2024	ND	2.09	104	2.00	1.83	
Total Xylenes*	<0.150	0.150	02/25/2024	ND	6.10	102	6.00	1.71	
Total BTEX	<0.300	0.300	02/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.1 %* *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	**80.0**	16.0	02/26/2024	ND	464	116	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	02/23/2024	ND	187	93.7	200	0.474	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	181	90.4	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane *91.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *82.5 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	02/21/2024	Sampling Date:	02/20/2024
Reported:	02/27/2024	Sampling Type:	Soil
Project Name:	FARNSWORTH 4 # 7	Sampling Condition:	Cool & Intact
Project Number:	FAE II OPERATING	Sample Received By:	Dionica Hinojos
Project Location:	UL / F SEC 4 T26S - R37E		

Sample ID: HZ 2 - 1' (H240862-04)

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	02/25/2024	ND	2.15	107	2.00	2.07	
Toluene*	<0.050	0.050	02/25/2024	ND	2.12	106	2.00	2.11	
Ethylbenzene*	<0.050	0.050	02/25/2024	ND	2.09	104	2.00	1.83	
Total Xylenes*	<0.150	0.150	02/25/2024	ND	6.10	102	6.00	1.71	
Total BTEX	<0.300	0.300	02/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.1 %* *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	**80.0**	16.0	02/26/2024	ND	464	116	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	02/23/2024	ND	187	93.7	200	0.474	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	181	90.4	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane *94.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *85.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	02/21/2024	Sampling Date:	02/20/2024
Reported:	02/27/2024	Sampling Type:	Soil
Project Name:	FARNSWORTH 4 # 7	Sampling Condition:	Cool & Intact
Project Number:	FAE II OPERATING	Sample Received By:	Dionica Hinojos
Project Location:	UL / F SEC 4 T26S - R37E		

Sample ID: HZ 3 - SURF (H240862-05)

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	02/25/2024	ND	2.15	107	2.00	2.07	
Toluene*	<0.050	0.050	02/25/2024	ND	2.12	106	2.00	2.11	
Ethylbenzene*	<0.050	0.050	02/25/2024	ND	2.09	104	2.00	1.83	
Total Xylenes*	<0.150	0.150	02/25/2024	ND	6.10	102	6.00	1.71	
Total BTEX	<0.300	0.300	02/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.4 %* *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	**80.0**	16.0	02/26/2024	ND	464	116	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	02/23/2024	ND	187	93.7	200	0.474	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	181	90.4	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane *91.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *83.1 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	02/21/2024	Sampling Date:	02/20/2024
Reported:	02/27/2024	Sampling Type:	Soil
Project Name:	FARNSWORTH 4 # 7	Sampling Condition:	Cool & Intact
Project Number:	FAE II OPERATING	Sample Received By:	Dionica Hinojos
Project Location:	UL / F SEC 4 T26S - R37E		

Sample ID: HZ 3 - 1' (H240862-06)

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	02/25/2024	ND	2.15	107	2.00	2.07	
Toluene*	<0.050	0.050	02/25/2024	ND	2.12	106	2.00	2.11	
Ethylbenzene*	<0.050	0.050	02/25/2024	ND	2.09	104	2.00	1.83	
Total Xylenes*	<0.150	0.150	02/25/2024	ND	6.10	102	6.00	1.71	
Total BTEX	<0.300	0.300	02/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.1 %* *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	**64.0**	16.0	02/26/2024	ND	464	116	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	02/23/2024	ND	187	93.7	200	0.474	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	181	90.4	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane *78.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *69.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	02/21/2024	Sampling Date:	02/20/2024
Reported:	02/27/2024	Sampling Type:	Soil
Project Name:	FARNSWORTH 4 # 7	Sampling Condition:	Cool & Intact
Project Number:	FAE II OPERATING	Sample Received By:	Dionica Hinojos
Project Location:	UL / F SEC 4 T26S - R37E		

Sample ID: HZ 4 - SURF (H240862-07)

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	02/25/2024	ND	2.15	107	2.00	2.07	
Toluene*	<0.050	0.050	02/25/2024	ND	2.12	106	2.00	2.11	
Ethylbenzene*	<0.050	0.050	02/25/2024	ND	2.09	104	2.00	1.83	
Total Xylenes*	<0.150	0.150	02/25/2024	ND	6.10	102	6.00	1.71	
Total BTEX	<0.300	0.300	02/25/2024	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	**80.0**	16.0	02/26/2024	ND	464	116	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	02/23/2024	ND	187	93.7	200	0.474	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	181	90.4	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane *76.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *69.4 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	02/21/2024	Sampling Date:	02/20/2024
Reported:	02/27/2024	Sampling Type:	Soil
Project Name:	FARNSWORTH 4 # 7	Sampling Condition:	Cool & Intact
Project Number:	FAE II OPERATING	Sample Received By:	Dionica Hinojos
Project Location:	UL / F SEC 4 T26S - R37E		

Sample ID: HZ 4 - 1' (H240862-08)

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	02/25/2024	ND	2.15	107	2.00	2.07	
Toluene*	<0.050	0.050	02/25/2024	ND	2.12	106	2.00	2.11	
Ethylbenzene*	<0.050	0.050	02/25/2024	ND	2.09	104	2.00	1.83	
Total Xylenes*	<0.150	0.150	02/25/2024	ND	6.10	102	6.00	1.71	
Total BTEX	<0.300	0.300	02/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.3 %* *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	**80.0**	16.0	02/26/2024	ND	464	116	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	02/23/2024	ND	187	93.7	200	0.474	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	181	90.4	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane *78.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *72.6 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	02/21/2024	Sampling Date:	02/20/2024
Reported:	02/27/2024	Sampling Type:	Soil
Project Name:	FARNSWORTH 4 # 7	Sampling Condition:	Cool & Intact
Project Number:	FAE II OPERATING	Sample Received By:	Dionica Hinojos
Project Location:	UL / F SEC 4 T26S - R37E		

Sample ID: SP 1 - SURF (H240862-09)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2024	ND	2.15	107	2.00	2.07	
Toluene*	**0.072**	0.050	02/26/2024	ND	2.12	106	2.00	2.11	GC-NC1
Ethylbenzene*	**0.177**	0.050	02/26/2024	ND	2.09	104	2.00	1.83	
Total Xylenes*	**1.46**	0.150	02/26/2024	ND	6.10	102	6.00	1.71	
Total BTEX	**1.71**	0.300	02/26/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *194 %* *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	**2760**	16.0	02/26/2024	ND	464	116	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**177**	50.0	02/24/2024	ND	187	93.7	200	0.474	
DRO >C10-C28*	**16400**	50.0	02/24/2024	ND	181	90.4	200	1.67	
EXT DRO >C28-C36	**3520**	50.0	02/24/2024	ND					

Surrogate: 1-Chlorooctane *138 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *303 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	02/21/2024	Sampling Date:	02/20/2024
Reported:	02/27/2024	Sampling Type:	Soil
Project Name:	FARNSWORTH 4 # 7	Sampling Condition:	Cool & Intact
Project Number:	FAE II OPERATING	Sample Received By:	Dionica Hinojos
Project Location:	UL / F SEC 4 T26S - R37E		

Sample ID: SP 2 - SURF (H240862-10)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2024	ND	2.15	107	2.00	2.07	
Toluene*	**0.285**	0.050	02/26/2024	ND	2.12	106	2.00	2.11	GC-NC1
Ethylbenzene*	**3.54**	0.050	02/26/2024	ND	2.09	104	2.00	1.83	
Total Xylenes*	**16.7**	0.150	02/26/2024	ND	6.10	102	6.00	1.71	
Total BTEX	**20.5**	0.300	02/26/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *387 %* *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	02/26/2024	ND	464	116	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**1220**	50.0	02/24/2024	ND	187	93.7	200	0.474	
DRO >C10-C28*	**31400**	50.0	02/24/2024	ND	181	90.4	200	1.67	
EXT DRO >C28-C36	**6010**	50.0	02/24/2024	ND					

Surrogate: 1-Chlorooctane *204 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *608 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Hungry Horse LLC				
Project Manager:	Daniel Dominguez				
Address:	PO Box 1058				
City:	Hobbs	State: NM	Zip: 88241		
Phone #:	575 393-3386	Fax #:			
Project #:		Project Owner:	FAE II Operating, LLC		
Project Name:	Farnsworth 4 #7				
Project Location:	UL/ F Sec 4 T26S - R37E				
Sampler Name:	Jerry Heidelberg				

BILL TO

P.O. #:	
Company	FAE II Operating, LLC
Attn:	Tyler Van Howe
Address:	11757 Katy FWY Suite 725
City:	Houston
State: TX	Zip: 77079
Phone #:	806-282-7334
Fax #:	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride	TPH	BTEX 8021									
H24082																										
1	HZ1-Surf	G	1			X					X		2/20/24		X	X	X									
2	HZ1-1'	G	1			X					X		2/20/24		X	X	X									
3	HZ2-Surf	G	1			X					X		2/20/24		X	X	X									
4	HZ2-1'	G	1			X					X		2/20/24		X	X	X									
5	HZ3-Surf	G	1			X					X		2/20/24		X	X	X									
6	HZ3-1'	G	1			X					X		2/20/24		X	X	X									
7	HZ4-Surf	G	1			X					X		2/20/24		X	X	X									
8	HZ4-1'	G	1			X					X		2/20/24		X	X	X									
9	SP1-Surf	G	1			X					X		2/20/24		X	X	X									
10	SP2-Surf	G	1			X					X		2/20/24		X	X	X									

Relinquished By:	Date: 2/21/24	Received By:	
	Time: 1537		
Relinquished By:	Date:	Received By:	
	Time:		

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

0.10c
#140

Sample Condition	CHECKED BY: (Initials)
Cool: ☑ Yes ☐ No	
Intact: ☑ Yes ☐ No	

Phone Result:	☐ Yes	☐ No	Add'l Phone #:
Fax Result:	☐ Yes	☐ No	Add'l Fax #:

REMARKS:

Email results to: pm@hungry-horse.com
tyler@faenergyus.com

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

CARDINAL Laboratories

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

August 01, 2024

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: FARNSWORTH 4 # 7

Enclosed are the results of analyses for samples received by the laboratory on 07/29/24 14:08.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	07/29/2024	Sampling Date:	07/29/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	FARNSWORTH 4 # 7	Sampling Condition:	Cool & Intact
Project Number:	FAE II OPERATING	Sample Received By:	Alyssa Parras
Project Location:	UL / F SEC 4 T26S - R37E		

Sample ID: FL 1 (H244492-01)

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	1.96	98.2	2.00	7.20	
Toluene*	<0.050	0.050	07/30/2024	ND	2.13	107	2.00	6.14	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.30	115	2.00	4.65	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.87	114	6.00	4.35	
Total BTEX	<0.300	0.300	07/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *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	**224**	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	212	106	200	0.613	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	201	100	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					

Surrogate: 1-Chlorooctane *99.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *108 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	07/29/2024	Sampling Date:	07/29/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	FARNSWORTH 4 # 7	Sampling Condition:	Cool & Intact
Project Number:	FAE II OPERATING	Sample Received By:	Alyssa Parras
Project Location:	UL / F SEC 4 T26S - R37E		

Sample ID: FL 2 (H244492-02)

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	07/30/2024	ND	1.96	98.2	2.00	7.20	
Toluene*	<0.050	0.050	07/30/2024	ND	2.13	107	2.00	6.14	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.30	115	2.00	4.65	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.87	114	6.00	4.35	
Total BTEX	<0.300	0.300	07/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *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	**256**	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	212	106	200	0.613	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	201	100	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					

Surrogate: 1-Chlorooctane *130 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *138 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	07/29/2024	Sampling Date:	07/29/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	FARNSWORTH 4 # 7	Sampling Condition:	Cool & Intact
Project Number:	FAE II OPERATING	Sample Received By:	Alyssa Parras
Project Location:	UL / F SEC 4 T26S - R37E		

Sample ID: FL 3 (H244492-03)

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	07/30/2024	ND	1.96	98.2	2.00	7.20	
Toluene*	<0.050	0.050	07/30/2024	ND	2.13	107	2.00	6.14	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.30	115	2.00	4.65	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.87	114	6.00	4.35	
Total BTEX	<0.300	0.300	07/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *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	**96.0**	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	212	106	200	0.613	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	201	100	200	1.30	
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*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	07/29/2024	Sampling Date:	07/29/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	FARNSWORTH 4 # 7	Sampling Condition:	Cool & Intact
Project Number:	FAE II OPERATING	Sample Received By:	Alyssa Parras
Project Location:	UL / F SEC 4 T26S - R37E		

Sample ID: FL 4 (H244492-04)

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	07/30/2024	ND	1.96	98.2	2.00	7.20	
Toluene*	<0.050	0.050	07/30/2024	ND	2.13	107	2.00	6.14	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.30	115	2.00	4.65	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.87	114	6.00	4.35	
Total BTEX	<0.300	0.300	07/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *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	**112**	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	212	106	200	0.613	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	201	100	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					

Surrogate: 1-Chlorooctane *130 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *148 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	07/29/2024	Sampling Date:	07/29/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	FARNSWORTH 4 # 7	Sampling Condition:	Cool & Intact
Project Number:	FAE II OPERATING	Sample Received By:	Alyssa Parras
Project Location:	UL / F SEC 4 T26S - R37E		

Sample ID: FL 5 (H244492-05)

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	07/30/2024	ND	1.95	97.6	2.00	0.00390	
Toluene*	<0.050	0.050	07/30/2024	ND	1.94	96.9	2.00	0.261	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.98	99.0	2.00	0.0548	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.86	97.7	6.00	0.230	
Total BTEX	<0.300	0.300	07/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *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	**240**	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	212	106	200	0.613	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	201	100	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					

Surrogate: 1-Chlorooctane *120 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *127 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	07/29/2024	Sampling Date:	07/29/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	FARNSWORTH 4 # 7	Sampling Condition:	Cool & Intact
Project Number:	FAE II OPERATING	Sample Received By:	Alyssa Parras
Project Location:	UL / F SEC 4 T26S - R37E		

Sample ID: FL 6 (H244492-06)

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	07/30/2024	ND	1.95	97.6	2.00	0.00390	
Toluene*	<0.050	0.050	07/30/2024	ND	1.94	96.9	2.00	0.261	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.98	99.0	2.00	0.0548	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.86	97.7	6.00	0.230	
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	**256**	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	212	106	200	0.613	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	201	100	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					

Surrogate: 1-Chlorooctane *132 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *139 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	07/29/2024	Sampling Date:	07/29/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	FARNSWORTH 4 # 7	Sampling Condition:	Cool & Intact
Project Number:	FAE II OPERATING	Sample Received By:	Alyssa Parras
Project Location:	UL / F SEC 4 T26S - R37E		

Sample ID: FL 7 (H244492-07)

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	07/30/2024	ND	1.95	97.6	2.00	0.00390	
Toluene*	<0.050	0.050	07/30/2024	ND	1.94	96.9	2.00	0.261	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.98	99.0	2.00	0.0548	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.86	97.7	6.00	0.230	
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	**80.0**	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	212	106	200	0.613	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	201	100	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					

Surrogate: 1-Chlorooctane *129 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *138 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	07/29/2024	Sampling Date:	07/29/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	FARNSWORTH 4 # 7	Sampling Condition:	Cool & Intact
Project Number:	FAE II OPERATING	Sample Received By:	Alyssa Parras
Project Location:	UL / F SEC 4 T26S - R37E		

Sample ID: SW 1 (H244492-08)

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	07/30/2024	ND	1.95	97.6	2.00	0.00390	
Toluene*	<0.050	0.050	07/30/2024	ND	1.94	96.9	2.00	0.261	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.98	99.0	2.00	0.0548	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.86	97.7	6.00	0.230	
Total BTEX	<0.300	0.300	07/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.0 %* *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	**32.0**	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	212	106	200	0.613	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	201	100	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					

Surrogate: 1-Chlorooctane *119 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *126 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	07/29/2024	Sampling Date:	07/29/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	FARNSWORTH 4 # 7	Sampling Condition:	Cool & Intact
Project Number:	FAE II OPERATING	Sample Received By:	Alyssa Parras
Project Location:	UL / F SEC 4 T26S - R37E		

Sample ID: SW 2 (H244492-09)

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	07/30/2024	ND	1.95	97.6	2.00	0.00390	
Toluene*	<0.050	0.050	07/30/2024	ND	1.94	96.9	2.00	0.261	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.98	99.0	2.00	0.0548	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.86	97.7	6.00	0.230	
Total BTEX	<0.300	0.300	07/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.0 %* *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	**16.0**	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	190	94.8	200	2.57	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	185	92.6	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane *134 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *140 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	07/29/2024	Sampling Date:	07/29/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	FARNSWORTH 4 # 7	Sampling Condition:	Cool & Intact
Project Number:	FAE II OPERATING	Sample Received By:	Alyssa Parras
Project Location:	UL / F SEC 4 T26S - R37E		

Sample ID: SW 3 (H244492-10)

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	07/30/2024	ND	1.95	97.6	2.00	0.00390	
Toluene*	<0.050	0.050	07/30/2024	ND	1.94	96.9	2.00	0.261	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.98	99.0	2.00	0.0548	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.86	97.7	6.00	0.230	
Total BTEX	<0.300	0.300	07/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.0 %* *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	**32.0**	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	190	94.8	200	2.57	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	185	92.6	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane *122 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *127 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	07/29/2024	Sampling Date:	07/29/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	FARNSWORTH 4 # 7	Sampling Condition:	Cool & Intact
Project Number:	FAE II OPERATING	Sample Received By:	Alyssa Parras
Project Location:	UL / F SEC 4 T26S - R37E		

Sample ID: SW 4 (H244492-11)

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	07/30/2024	ND	1.95	97.6	2.00	0.00390	
Toluene*	<0.050	0.050	07/30/2024	ND	1.94	96.9	2.00	0.261	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.98	99.0	2.00	0.0548	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.86	97.7	6.00	0.230	
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	**16.0**	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	190	94.8	200	2.57	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	185	92.6	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 *109 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	07/29/2024	Sampling Date:	07/29/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	FARNSWORTH 4 # 7	Sampling Condition:	Cool & Intact
Project Number:	FAE II OPERATING	Sample Received By:	Alyssa Parras
Project Location:	UL / F SEC 4 T26S - R37E		

Sample ID: SW 5 (H244492-12)

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	07/30/2024	ND	1.95	97.6	2.00	0.00390	
Toluene*	<0.050	0.050	07/30/2024	ND	1.94	96.9	2.00	0.261	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.98	99.0	2.00	0.0548	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.86	97.7	6.00	0.230	
Total BTEX	<0.300	0.300	07/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.2 %* *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	**32.0**	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	190	94.8	200	2.57	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	185	92.6	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane *119 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *126 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	07/29/2024	Sampling Date:	07/29/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	FARNSWORTH 4 # 7	Sampling Condition:	Cool & Intact
Project Number:	FAE II OPERATING	Sample Received By:	Alyssa Parras
Project Location:	UL / F SEC 4 T26S - R37E		

Sample ID: SW 6 (H244492-13)

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	07/30/2024	ND	1.95	97.6	2.00	0.00390	
Toluene*	<0.050	0.050	07/30/2024	ND	1.94	96.9	2.00	0.261	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.98	99.0	2.00	0.0548	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.86	97.7	6.00	0.230	
Total BTEX	<0.300	0.300	07/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.7 %* *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	**16.0**	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	190	94.8	200	2.57	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	185	92.6	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					

Surrogate: 1-Chlorooctane *124 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *130 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	07/29/2024	Sampling Date:	07/29/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	FARNSWORTH 4 # 7	Sampling Condition:	Cool & Intact
Project Number:	FAE II OPERATING	Sample Received By:	Alyssa Parras
Project Location:	UL / F SEC 4 T26S - R37E		

Sample ID: SW 7 (H244492-14)

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	07/30/2024	ND	1.95	97.6	2.00	0.00390	
Toluene*	<0.050	0.050	07/30/2024	ND	1.94	96.9	2.00	0.261	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.98	99.0	2.00	0.0548	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.86	97.7	6.00	0.230	
Total BTEX	<0.300	0.300	07/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.7 %* *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	**32.0**	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	190	94.8	200	2.57	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	185	92.6	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					

Surrogate: 1-Chlorooctane *122 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *127 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	07/29/2024	Sampling Date:	07/29/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	FARNSWORTH 4 # 7	Sampling Condition:	Cool & Intact
Project Number:	FAE II OPERATING	Sample Received By:	Alyssa Parras
Project Location:	UL / F SEC 4 T26S - R37E		

Sample ID: SW 8 (H244492-15)

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	07/30/2024	ND	1.95	97.6	2.00	0.00390	
Toluene*	<0.050	0.050	07/30/2024	ND	1.94	96.9	2.00	0.261	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.98	99.0	2.00	0.0548	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.86	97.7	6.00	0.230	
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	**16.0**	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	190	94.8	200	2.57	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	185	92.6	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					

Surrogate: 1-Chlorooctane *120 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *125 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Hungry Horse LLC			BILL TO	
Project Manager:	Daniel Dominguez			P.O. #:	
Address:	PO Box 1058			Company	FAE II Operating, LLC
City:	Hobbs	State: NM	Zip: 88241	Attn:	Tyler Van Howe
Phone #:	575 393-3386	Fax #:		Address:	11757 Katy FWY Suite 725
Project #:		Project Owner:	FAE II Operating, LLC	City:	Houston
Project Name:	Farnsworth 4 #7			State: TX	Zip: 77079
Project Location:	UL/ F Sec 4 T26S - R37E			Phone #:	806-282-7334
Sampler Name:	Jerry Heidelberg			Fax #:	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST											
Lab I.D. 21241422	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE	ICE / COOL ✓	OTHER :	DATE	TIME	Chloride	TPH	BTEX 8021									
1	FL1	C	1			X					X		7/29/24		X	X	X									
2	FL2	C	1			X					X		7/29/24		X	X	X									
3	FL3	C	1			X					X		7/29/24		X	X	X									
4	FL4	C	1			X					X		7/29/24		X	X	X									
5	FL5	C	1			X					X		7/29/24		X	X	X									
6	FL6	C	1			X					X		7/29/24		X	X	X									
7	FL7	C	1			X					X		7/29/24		X	X	X									
8	SW1	C	1			X					X		7/29/24		X	X	X									
9	SW2	C	1			X					X		7/29/24		X	X	X									
10	SW3	C	1			X					X		7/29/24		X	X	X									

Relinquished By: Jerry Heidelberg	Date: 7-29-24	Received By: A Ramos	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Time: 1408		Fax Result: ☐ Yes ☐ No Add'l Fax #:
	Date:	Received By:	REMARKS:
	Time:		Email results to: pm@hungry-horse.com tyler@faenergyus.com

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No	CHECKED BY: (Initials) AP
-0.2°C #140		

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Hungry Horse LLC			BILL TO	
Project Manager:	Daniel Dominguez			P.O. #:	
Address:	PO Box 1058			Company	FAE II Operating, LLC
City:	Hobbs	State: NM	Zip: 88241	Attn:	Tyler Van Howe
Phone #:	575 393-3386	Fax #:		Address:	11757 Katy FWY Suite 725
Project #:		Project Owner:	FAE II Operating, LLC	City:	Houston
Project Name:	Farnsworth 4 #7			State: TX	Zip: 77079
Project Location:	UL/ F Sec 4 T26S - R37E			Phone #:	806-282-7334
Sampler Name:	Jerry Heidelberg			Fax #:	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL ✓	OTHER :	DATE	TIME	Chloride	TPH	BTEX 8021
H244492																	
11	SW4	C	1			X					X		7/29/24		X	X	X
12	SW5	C	1			X					X		7/29/24		X	X	X
13	SW6	C	1			X					X		7/29/24		X	X	X
14	SW7	C	1			X					X		7/29/24		X	X	X
15	SW8	C	1			X					X		7/29/24		X	X	X
16 AP 7.29.24																	

Relinquished By: Jerry Heidelberg	Date: 7.29.24	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1408	AP Ramos	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		Email results to: pm@hungry-horse.com tyler@faenergyus.com

Delivered By: (Circle One) -0.2°C
Sampler - UPS - Bus - Other: #145

Sample Condition: Cool ☑ Yes ☐ No; Intact ☐ Yes ☐ No

CHECKED BY: (Initials) AD

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

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 383384

QUESTIONS

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 383384
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2225654053**
Incident Name	**NAPP2225654053 FARNSWORTH 4 #007 @ 30-025-11942**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-025-11942] FARNSWORTH 4 #007**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	FARNSWORTH 4 #007
Date Release Discovered	09/13/2022
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: Equipment Failure | Flow Line - Injection | Produced Water | Released: 110 BBL | Recovered: 100 BBL | Lost: 10 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)	*Not answered.*

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QUESTIONS (continued)

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 383384
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**

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: Alexis Bolanos Title: Production & Regulatory Analyst Email: alex@faenergyus.com Date: 09/13/2024

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QUESTIONS (continued)

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QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
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	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Greater than 5 (mi.)
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	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
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.	
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)	2760
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	32643.5
GRO+DRO (EPA SW-846 Method 8015M)	32620
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	06/28/2024
On what date will (or did) the final sampling or liner inspection occur	07/29/2024
On what date will (or was) the remediation complete(d)	08/15/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	560
What is the estimated volume (in cubic yards) that will be remediated	120
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

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QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	R360 ARTESIA LLC LANDFARM [fEEM0112340644]
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	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Alexis Bolanos Title: Production & Regulatory Analyst Email: alex@faenergyus.com Date: 09/13/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

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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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QUESTIONS (continued)

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**366935**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**07/29/2024**
What was the (estimated) number of samples that were to be gathered	**15**
What was the sampling surface area in square feet	**544**

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	560
What was the total volume (cubic yards) remediated	120
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	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Remediation activities were conducted in accordance with applicable NMOCD Regulations. Soil affected above the NMOCD Closure Criteria has been excavated and hauled to an NMOCD approved facility for disposal. Laboratory analytical results from composite confirmation samples indicate concentrations of BTEX, TPH, and chlorides are below the NMOCD Closure Criteria.

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: Alexis Bolanos Title: Production & Regulatory Analyst Email: alex@faenergyus.com Date: 09/13/2024

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QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
nvelez	None	11/15/2024