



Remediation Summary and Closure Request

Ridge Runner Resources Operating, LLC

Bear Draw State Com #1

Eddy County, New Mexico

Unit Letter "B", Section 3, Township 17 South, Range 29 East

Latitude 32.868718 North, Longitude 104.060104 West

NMOCD Incident # NMLB1215347504

Prepared For:

Ridge Runner Resources Operating, LLC

4000 N Big Spring Ste 210

Midland, TX 79705

Prepared By:

Hungry Horse, LLC

4024 Plains Hwy

Lovington, NM 88260

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October 2024

Handwritten signature of Bradley Wells in black ink.

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Project Manager

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Daniel Dominguez

Environmental Manager

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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 B (NW/NE), Section 3, Township 17 South, Range 29 East, approximately nine miles Northwest of Loco Hills, in Eddy County, New Mexico. The property is located on New Mexico State Trust 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 well pad; Latitude 32.868718 North, Longitude 103.060104 West. The NMOCD Form C-141 indicates that on May 10, 2012, a lightning strike caused the release of approximately seventy-eight bbls of crude oil and twenty-two bbls of produced water. No fluid was recovered as the resulting fire consumed the tank, oil and water. Previously submitted NMOCD Form C-141 is available on the NMOCD Permitting Portal.

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 not located in a Karst designated area. Depth to groundwater information is provided as Attachment IV and the results are depicted on Figures 2 and 3.

No water wells were located within a half mile of the release area. Therefore, as depth to groundwater could not be determined, 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
undetermined	Chloride	EPA 300.0 or SM4500 CLB	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg
	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 remediation. Web Soil Survey indicates the area is located in the Simona-Bippus complex comprised of gravelly fine sandy loam soils with 0 to 3 percent slopes. As the release occurred on an active well pad, no seeding will be required. Karst, Wetland, and Soil Maps are provided as Attachment I.



Delineation and Remediation Activities:

On July 16, 2024, Hungry Horse conducted an initial site assessment consisting of photographing, mapping, and sampling the release area. During delineation sampling, sample test trenches 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, sample test trenches 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 sample test trenches, soil samples were collected and field screened for the presence of chloride concentrations utilizing a Hach Quantab® chloride test kit.

Based on field observations and field test data noted above and provided in Attachment V, thirty-two representative soil samples were selected for laboratory analysis. Delineation soil samples SP1 through SP4, 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 SP2 at Surface, which exhibited TPH concentrations in excess of NMOCD Closure Criteria.

On September 23, 2024, the release area was excavated. Excavated contaminated soil was immediately loaded and transported to an NMOCD approved disposal facility. On September 24, 2024, Hungry Horse, LLC notified NMOCD that closure samples would be collected on September 27, 2024. Correspondence is provided as Attachment II.

On September 27, 2024, thirteen 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 FL8 and SW1 through SW5, 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 affected area measured approximately fourteen hundred square feet, and one foot in depth. During remediation activities approximately 60 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, 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 SW5 were collected as five-point composite samples from the excavation surface to the excavation floor from the outside edge of the excavation as well as the interior sidewall around the base of the tank. The Excavation Sample Map, provided as Figure 5, depicts sidewall sample locations.

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 and preserve surface water flow. As the release occurred on an active well pad, 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, Ridge Runner Resources Operating, LLC respectfully requests closure of the Bear Draw State Com #1 location, NMLB1215347504.

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:

Ridge Runner Resources Operating, LLC

4000 N Big Spring Ste 210

Midland, TX 79705

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2

811 S. First St.

Artesia, NM 88210

New Mexico State Land Office

602 N. Canal. Suite B

Carlsbad, NM 88220

Figures

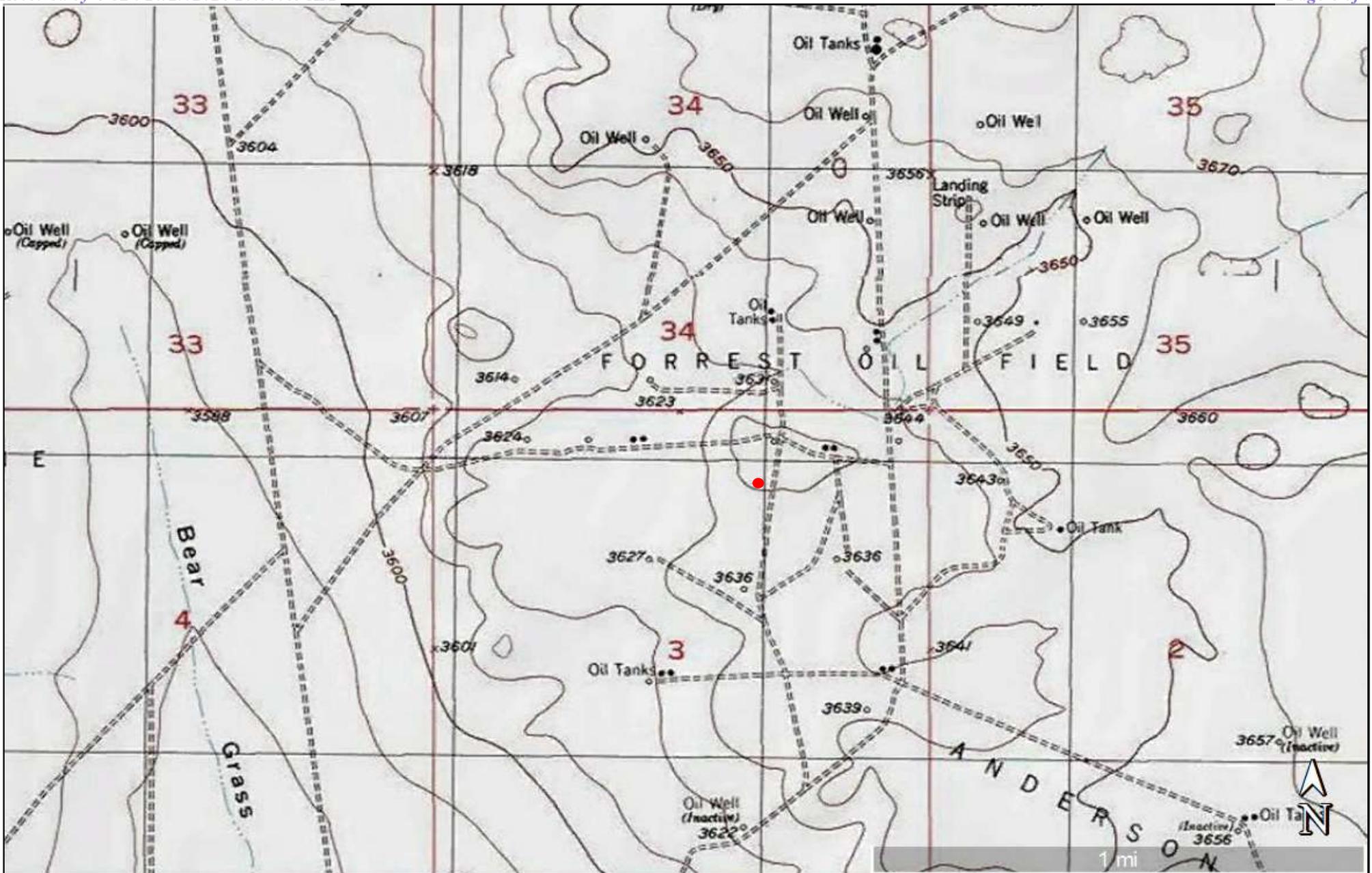


Figure 1

Topographic Map

Ridge Runner Resources Operating, LLC

Bear Draw State Com #1

GPS: 32.868718, -104.060104

Eddy County

Legend:

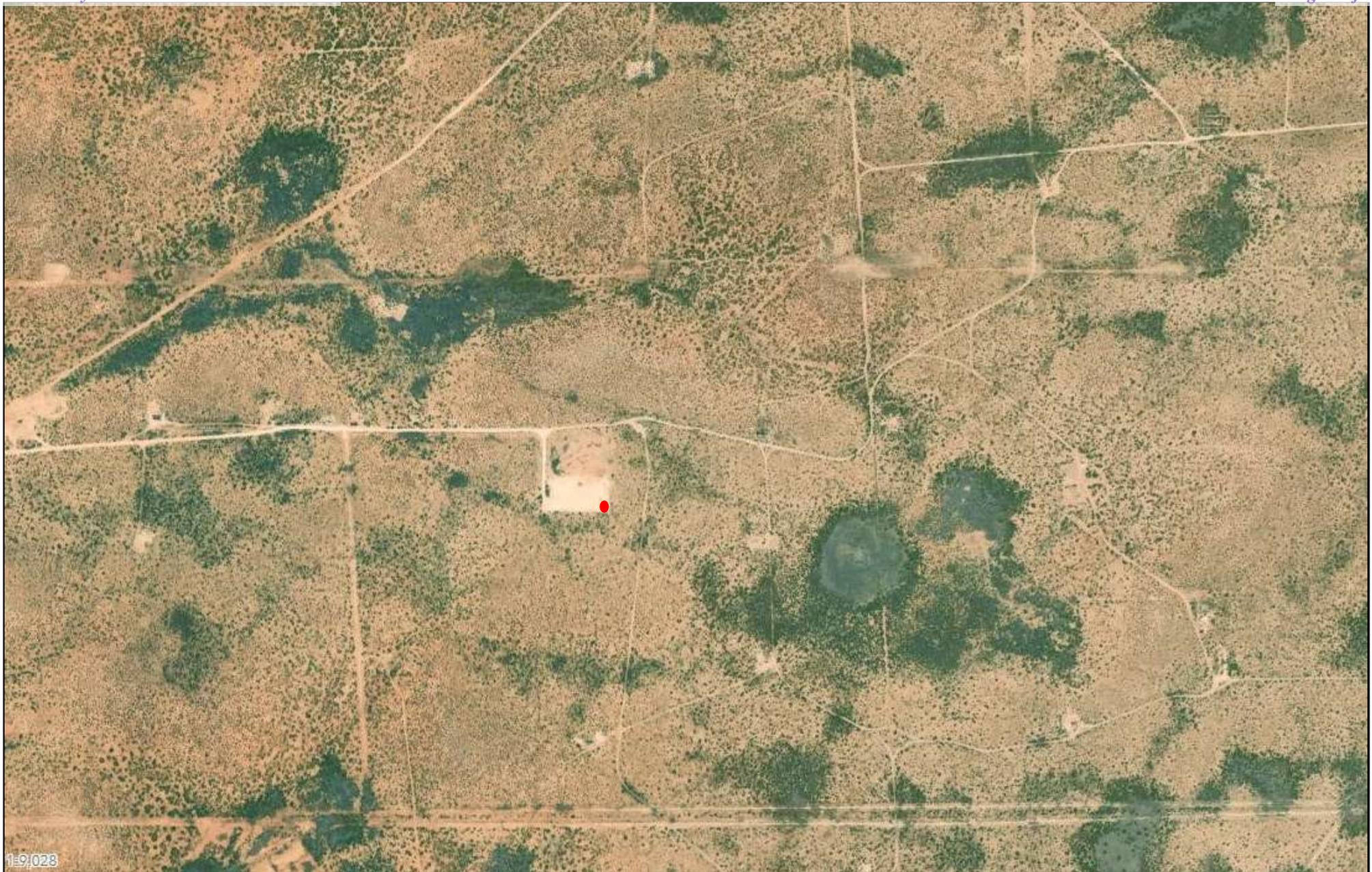
● Bear Draw State Com #1 Location

Drafted: dd

Checked: bw

Date: 7/16/24





1E91028

Figure 2

OSE POD Locations Map
Ridge Runner Resources Operating, LLC
Bear Draw State Com #1
GPS: 32.868718, -104.060104
Eddy County

Legend:

● Bear Draw State Com #1 Location

Drafted: dd
Checked: bw
Date: 7/16/24



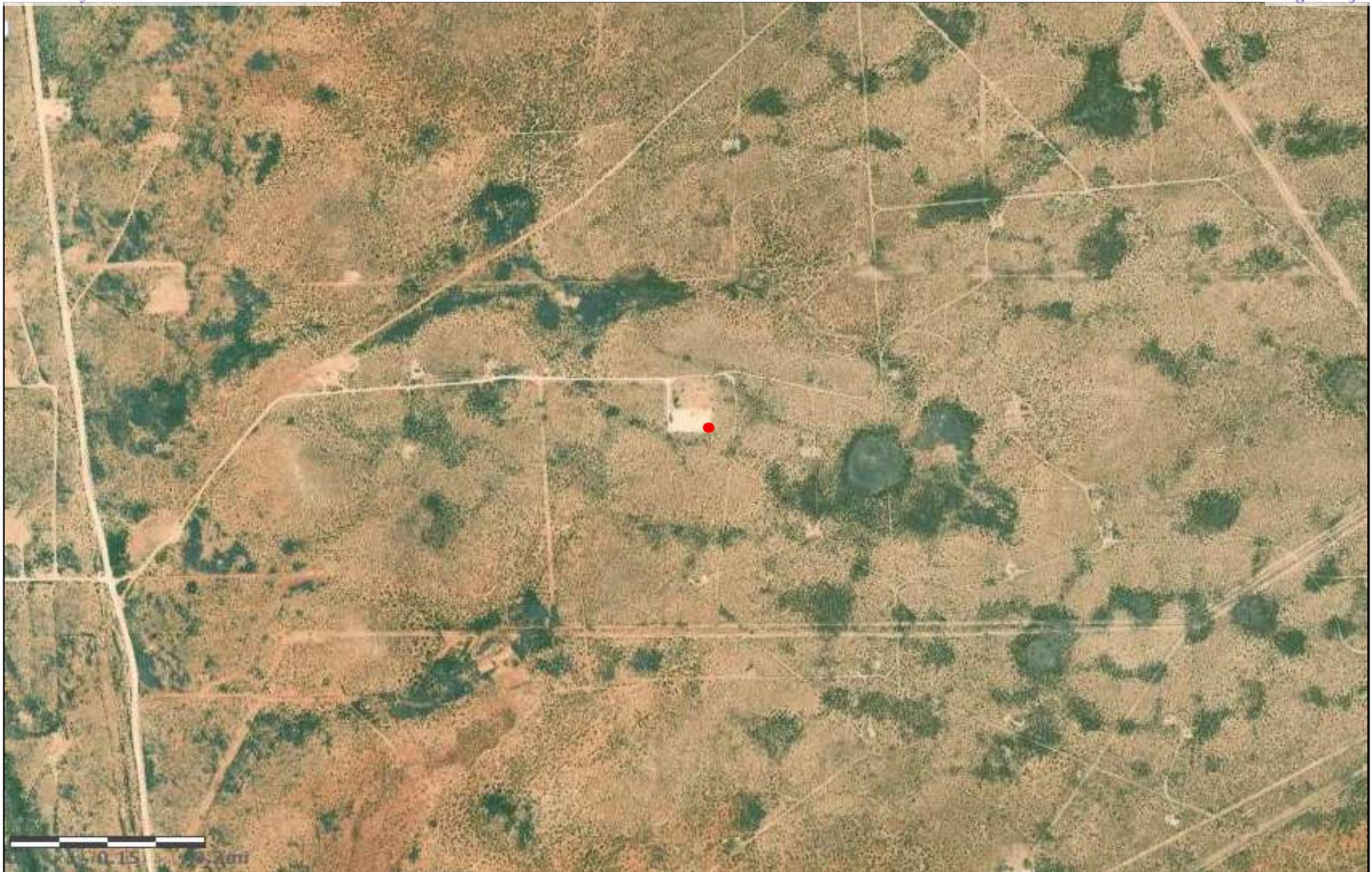


Figure 3

USGS Well Locations Map
Ridge Runner Resources Operating, LLC
Bear Draw State Com #1
GPS: 32.868718, -104.060104
Eddy County

Legend:

- Bear Draw State Com #1 Location

Drafted: dd
Checked: bw
Date: 7/16/24





Figure 4

Delineation Sample Map
 Ridge Runner Resources Operating, LLC
 Bear Draw State Com #1
 GPS: 32.868718, -104.060104
 Eddy County

Legend:

- Release Area
- SP1 Vertical Delineation Sample Location
- HZ1 Horizontal Delineation Sample Location

Drafted: dd
 Checked: bw
 Date: 7/16/24





Figure 5

Excavation Sample Map
 Ridge Runner Resources Operating, LLC
 Bear Draw State Com #1
 GPS: 32.868718, -104.060104
 Eddy County

Legend:

- Excavated Area
- Unexcavated Area Underneath Tank
- FL1 Composite Confirmation Floor Sample Location
- SW1 Composite Confirmation Sidewall Sample Location

Drafted: dd
 Checked: bw
 Date: 9/26/24



Table

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
Ridge Runner Resources Operating, LLC
Bear Draw State Com #1
NMOCD Ref. #: NMLB1215347504

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	7/16/24	Surf	Excavated	<0.050	<0.300	<10.0	11.6	<20.0	<10.0	<30.0	64.0
	7/16/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
	7/16/24	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	7/16/24	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
	7/16/24	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SP2	7/16/24	Surf	Excavated	<0.050	<0.300	<10.0	134	134	16.9	150.9	32.0
	7/16/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	7/16/24	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	7/16/24	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
	7/16/24	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
SP3	7/16/24	Surf	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
	7/16/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
	7/16/24	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
	7/16/24	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	7/16/24	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SP4	7/16/24	Surf	Excavated	<0.050	<0.300	<10.0	55.7	55.7	<10.0	55.7	96.0
	7/16/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
	7/16/24	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	7/16/24	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
	7/16/24	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
HZ1	7/16/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
	7/16/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
HZ2	7/16/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	7/16/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
HZ3	7/16/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	7/16/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
HZ4	7/16/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	7/16/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL1	9/27/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL2	9/27/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL3	9/27/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL4	9/27/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL5	9/27/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL6	9/27/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL7	9/27/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL8	9/27/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW1	9/27/24	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW2	9/27/24	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SW3	9/27/24	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SW4	9/27/24	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW5	9/27/24	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
NMOCD Closure Criteria				10	50	-	-	N/A	-	100	600

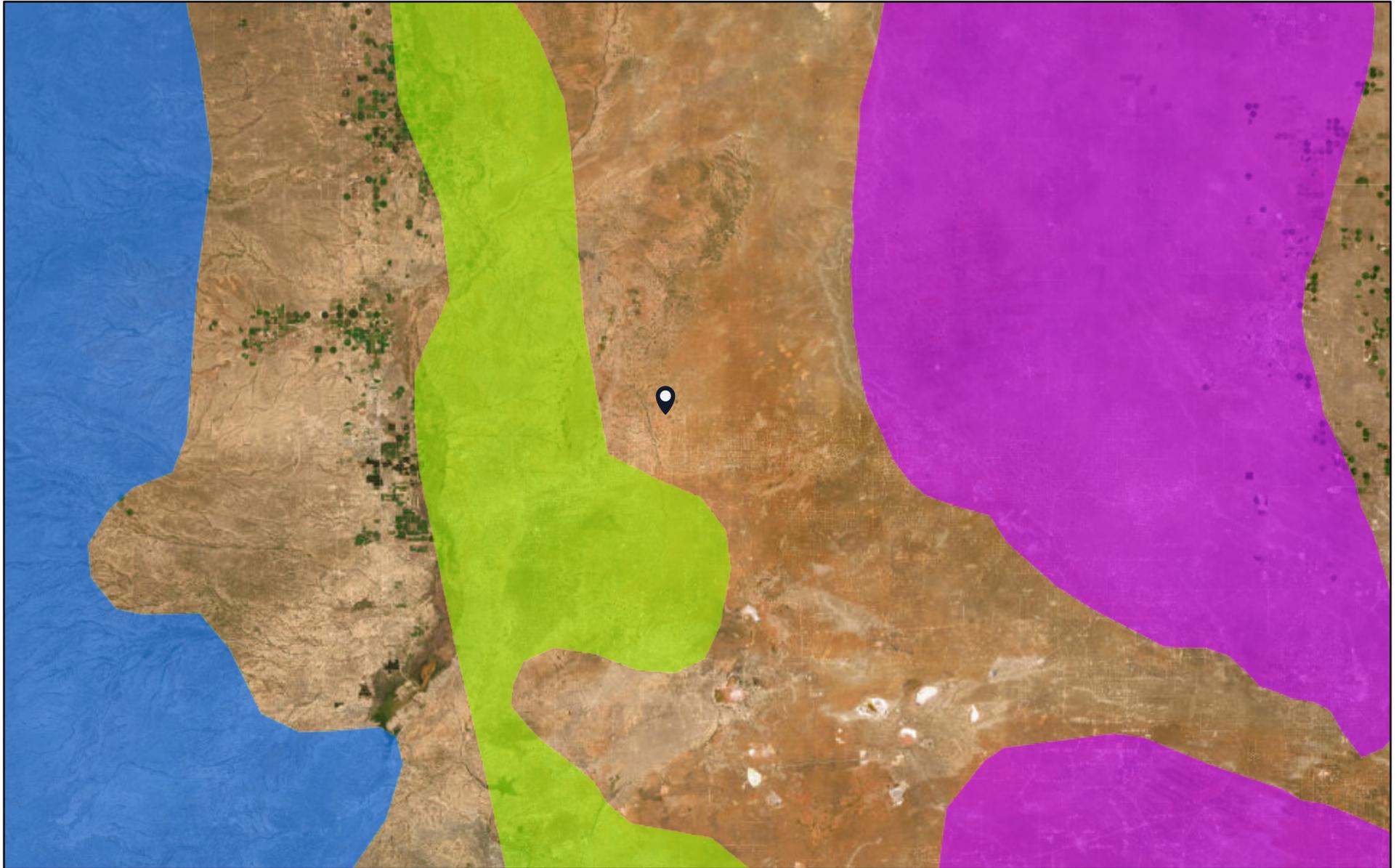
NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Attachment I
Karst, Wetland, and Soil Maps

Bear Draw State Com #1



10/14/2024

Karst Type

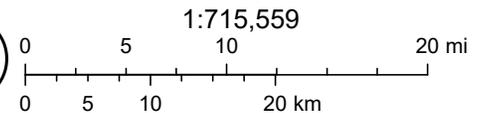
- Carbonate
- Erosional
- Gypsum

- Volcanic
- World Imagery
- Low Resolution 15m Imagery
- High Resolution 60cm Imagery

High Resolution 30cm Imagery

Citations

150m Resolution Metadata



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



Bear Draw State Com #1



October 14, 2024

Wetlands

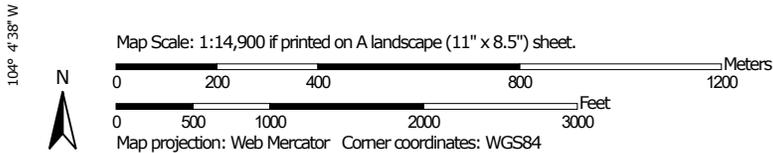
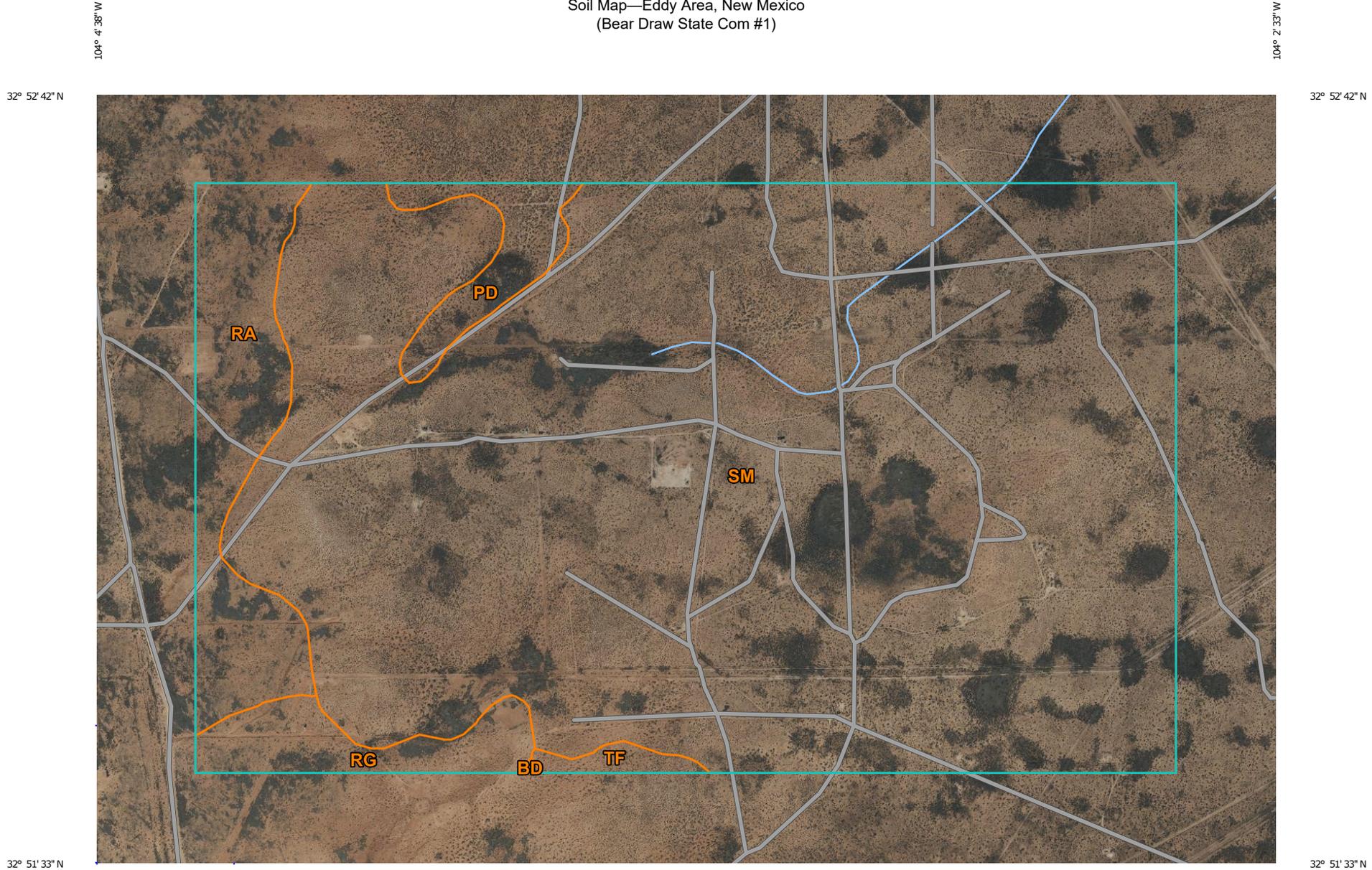
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- 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.

Soil Map—Eddy Area, New Mexico
(Bear Draw State Com #1)



Soil Map—Eddy Area, New Mexico
(Bear Draw State Com #1)

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: Eddy Area, New Mexico
Survey Area Data: Version 20, Sep 3, 2024

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

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

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BD	Berino-Dune land complex, 0 to 3 percent slopes	0.4	0.0%
PD	Pajarito-Dune land complex, 0 to 3 percent slopes	25.6	2.4%
RA	Reagan loam, 0 to 3 percent slopes	80.6	7.4%
RG	Reeves-Gypsum land complex, 0 to 3 percent slopes	32.5	3.0%
SM	Simona-Bippus complex, 0 to 5 percent slopes	937.8	86.6%
TF	Tonuco loamy fine sand, 0 to 3 percent slopes	6.6	0.6%
Totals for Area of Interest		1,083.5	100.0%

Eddy Area, New Mexico

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

Map Unit Setting

National map unit symbol: 1w5x

Elevation: 1,800 to 5,000 feet

Mean annual precipitation: 8 to 24 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 230 days

Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 55 percent

Bippus and similar soils: 30 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Simona

Setting

Landform: Plains, alluvial fans

Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 19 inches: gravelly fine sandy loam

H2 - 19 to 23 inches: indurated

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 2.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D

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

Bear Draw State Com #1

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

Description of Bippus

Setting

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

Typical profile

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

Properties and qualities

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

Interpretive groups

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

Minor Components

Simona

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

Bippus

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

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

Bear Draw State Com #1

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 20, Sep 3, 2024

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 386166

QUESTIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 386166
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nMLB1215347504
Incident Name	NMLB1215347504 BEAR DRAW STATE COM #001 @ 30-015-35679
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-35679] BEAR DRAW STATE COM #001

Location of Release Source	
Site Name	BEAR DRAW STATE COM #001
Date Release Discovered	05/10/2012
Surface Owner	State

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	1,400
What is the estimated number of samples that will be gathered	13
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/27/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Roy Bell 575-626-8959
Please provide any information necessary for navigation to sampling site	32.868718, -104.060104

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 386166

CONDITIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 386166
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
ccottrell	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.	9/24/2024

Attachment III Site Photographs

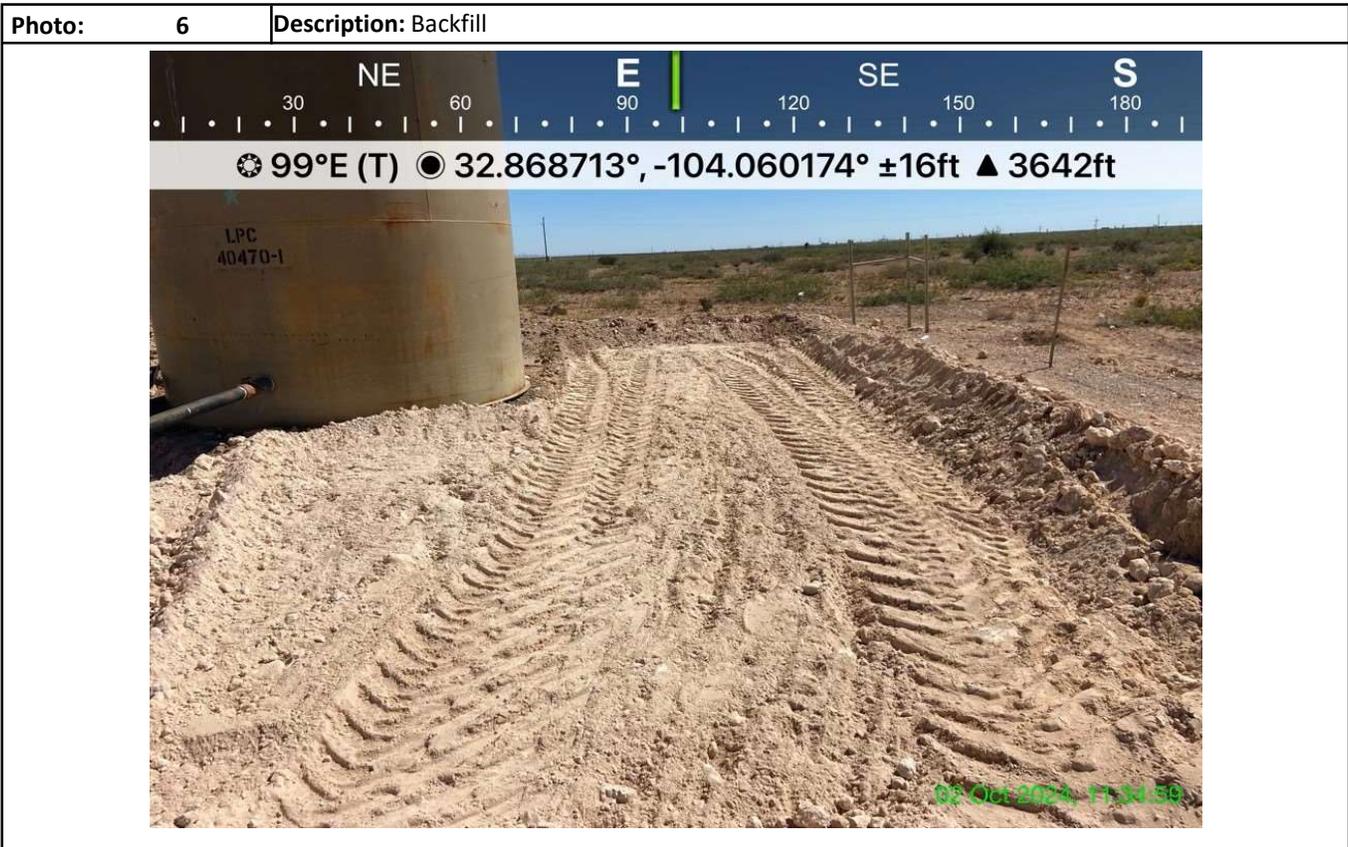
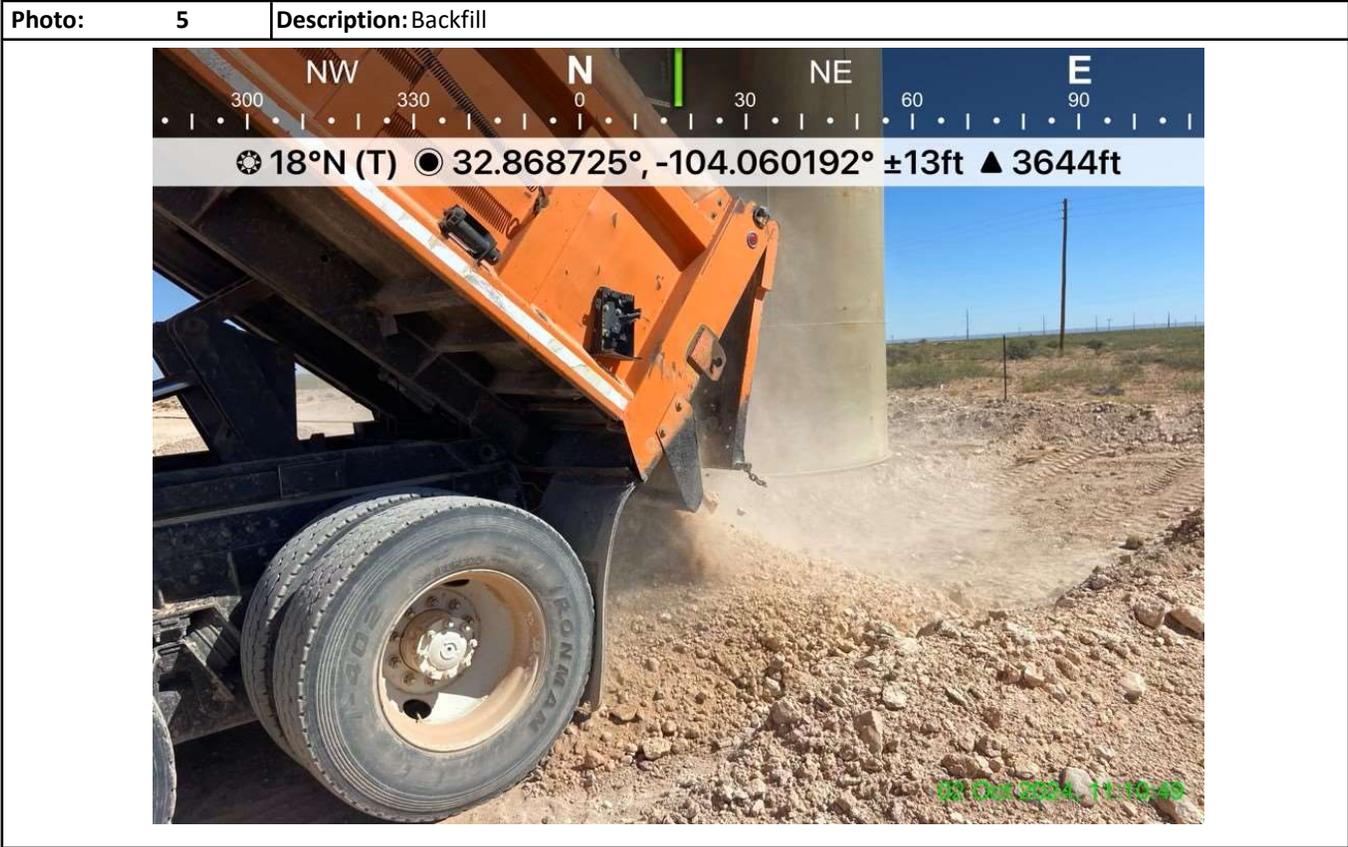
Photographs



Photographs



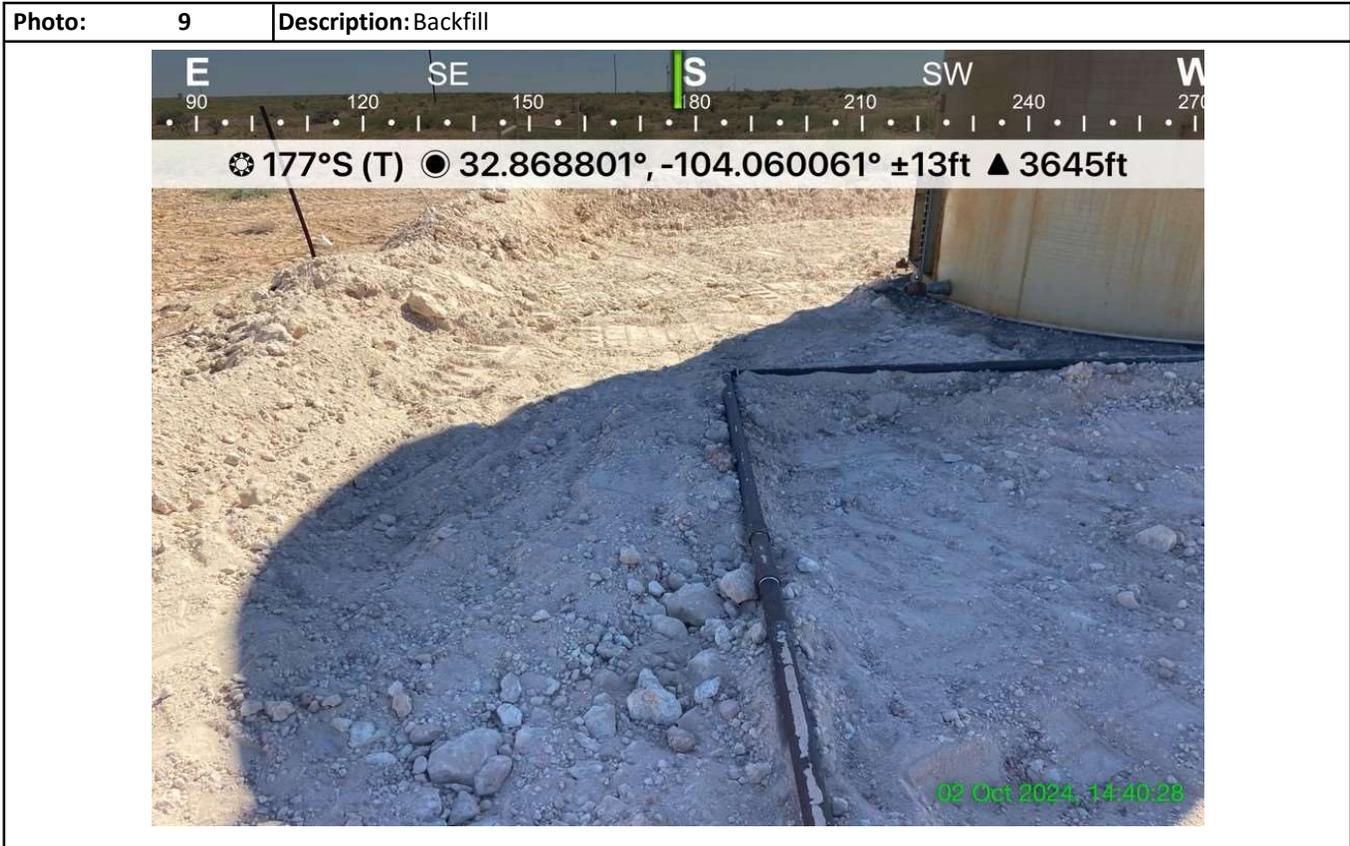
Photographs



Photographs



Photographs



Attachment IV

Depth to Groundwater



New Mexico Office of the State Engineer

Wells With Well Log Information

No report data available.

UTM Filters (in meters):

Easting: 587932.60

Northing: 3637124.64

Radius: 805

* UTM location was derived from PLSS - see Help

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

Attachment V Field Data

Sample Log

Hungry Horse, LLC

Project: Bear Draw State Com #1

Date: 7/16/24

Karst: No Water: <50

GPS: 32.868718, -104.060104

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

Sampler: Jerry Heidelberg

Sample ID	Depth	PID/Odor	Chloride	GPS
HZ 1	Surf		1.4 @ 29 x4 = 116	
	1'		0.8 > 100	
HZ 2	Surf		0.10 > 100	
	1'		0.10 > 100	
HZ 3	Surf		1.2 > 100	
	1'		1.2 > 100	
HZ 4	Surf		0.10 > 100	
	1'		1.1 @ > 100	
SP1	Surf		0.4 > 100	
	1'		0.0 > 100	
	2'		0.10 > 100	
	3'		0.10 > 100	
	4'		0.2 > 100	
SP2	Surf		0.10 > 100	
	1'		1.2 @ > 100	
	2'		1.2 > 100	
	3'		1.8 @ 41 x4 = 164	
	4'		0.2 > 100	
SP3	Surf		1.2 > 100	
	1'		1.2 > 100	
	2'		1.2 > 100	
	3'		1.2 > 100	
	4'		1.2 > 100	
SP4	Surf		0.4 > 100	
	1'		0.0 > 100	
	2'		0.10 > 100	
	3'		0.10 > 100	
	4'		0.2 > 100	

Sample Point = SP1 @ ## etc

Horizontal = HZ1 etc

Test Trench = TT1 @ ##

Floor = FL1 etc

Refusal = SP1 @ 4'-R

Resamples = SP1b @ 5' or SW #1b

Sidewall = SW1 etc

GPS Sample Points, Center of Comp Areas

Stockpile = Stockpile #1

Attachment VI

Laboratory Analytical Reports



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

July 22, 2024

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: BEAR DRAW STATE COM #1

Enclosed are the results of analyses for samples received by the laboratory on 07/17/24 8:42.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: SP 1 SURF (H244260-01)

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	07/17/2024	ND	2.00	100	2.00	0.282	
Toluene*	<0.050	0.050	07/17/2024	ND	1.98	98.9	2.00	0.625	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	1.98	99.1	2.00	0.923	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	5.82	97.0	6.00	1.21	
Total BTEX	<0.300	0.300	07/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/18/2024	ND	448	112	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	07/17/2024	ND	191	95.3	200	0.589	
DRO >C10-C28*	11.6	10.0	07/17/2024	ND	193	96.5	200	0.820	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: SP 1 1' (H244260-02)

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	07/17/2024	ND	2.00	100	2.00	0.282	
Toluene*	<0.050	0.050	07/17/2024	ND	1.98	98.9	2.00	0.625	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	1.98	99.1	2.00	0.923	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	5.82	97.0	6.00	1.21	
Total BTEX	<0.300	0.300	07/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/18/2024	ND	448	112	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	07/17/2024	ND	191	95.3	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	193	96.5	200	0.820	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: SP 1 2' (H244260-03)

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	07/17/2024	ND	2.00	100	2.00	0.282	
Toluene*	<0.050	0.050	07/17/2024	ND	1.98	98.9	2.00	0.625	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	1.98	99.1	2.00	0.923	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	5.82	97.0	6.00	1.21	
Total BTEX	<0.300	0.300	07/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/18/2024	ND	448	112	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	07/17/2024	ND	191	95.3	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	193	96.5	200	0.820	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: SP 1 3' (H244260-04)

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	07/17/2024	ND	2.00	100	2.00	0.282	
Toluene*	<0.050	0.050	07/17/2024	ND	1.98	98.9	2.00	0.625	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	1.98	99.1	2.00	0.923	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	5.82	97.0	6.00	1.21	
Total BTEX	<0.300	0.300	07/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/18/2024	ND	448	112	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	07/17/2024	ND	191	95.3	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	193	96.5	200	0.820	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: SP 1 4' (H244260-05)

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	07/17/2024	ND	2.00	100	2.00	0.282	
Toluene*	<0.050	0.050	07/17/2024	ND	1.98	98.9	2.00	0.625	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	1.98	99.1	2.00	0.923	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	5.82	97.0	6.00	1.21	
Total BTEX	<0.300	0.300	07/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/18/2024	ND	448	112	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	07/17/2024	ND	191	95.3	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	193	96.5	200	0.820	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: SP 2 SURF (H244260-06)

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	07/17/2024	ND	2.00	100	2.00	0.282	
Toluene*	<0.050	0.050	07/17/2024	ND	1.98	98.9	2.00	0.625	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	1.98	99.1	2.00	0.923	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	5.82	97.0	6.00	1.21	
Total BTEX	<0.300	0.300	07/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/18/2024	ND	448	112	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	07/17/2024	ND	191	95.3	200	0.589	
DRO >C10-C28*	134	10.0	07/17/2024	ND	193	96.5	200	0.820	
EXT DRO >C28-C36	16.9	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: SP 2 1' (H244260-07)

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	07/17/2024	ND	2.00	100	2.00	0.282	
Toluene*	<0.050	0.050	07/17/2024	ND	1.98	98.9	2.00	0.625	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	1.98	99.1	2.00	0.923	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	5.82	97.0	6.00	1.21	
Total BTEX	<0.300	0.300	07/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/18/2024	ND	448	112	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	07/17/2024	ND	191	95.3	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	193	96.5	200	0.820	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: SP 2 2' (H244260-08)

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	07/17/2024	ND	2.00	100	2.00	0.282	
Toluene*	<0.050	0.050	07/17/2024	ND	1.98	98.9	2.00	0.625	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	1.98	99.1	2.00	0.923	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	5.82	97.0	6.00	1.21	
Total BTEX	<0.300	0.300	07/17/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/18/2024	ND	448	112	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	07/17/2024	ND	191	95.3	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	193	96.5	200	0.820	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

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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:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: SP 2 3' (H244260-09)

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	07/17/2024	ND	2.00	100	2.00	0.282	
Toluene*	<0.050	0.050	07/17/2024	ND	1.98	98.9	2.00	0.625	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	1.98	99.1	2.00	0.923	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	5.82	97.0	6.00	1.21	
Total BTEX	<0.300	0.300	07/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/18/2024	ND	448	112	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	07/17/2024	ND	191	95.3	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	193	96.5	200	0.820	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: SP 2 4' (H244260-10)

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	07/17/2024	ND	2.00	100	2.00	0.282	
Toluene*	<0.050	0.050	07/17/2024	ND	1.98	98.9	2.00	0.625	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	1.98	99.1	2.00	0.923	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	5.82	97.0	6.00	1.21	
Total BTEX	<0.300	0.300	07/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/18/2024	ND	448	112	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	07/17/2024	ND	191	95.3	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	193	96.5	200	0.820	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: SP 3 SURF (H244260-11)

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	07/17/2024	ND	2.00	100	2.00	0.282		
Toluene*	<0.050	0.050	07/17/2024	ND	1.98	98.9	2.00	0.625		
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	1.98	99.1	2.00	0.923		
Total Xylenes*	<0.150	0.150	07/17/2024	ND	5.82	97.0	6.00	1.21		
Total BTEX	<0.300	0.300	07/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/18/2024	ND	448	112	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	07/17/2024	ND	191	95.3	200	0.589		
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	193	96.5	200	0.820		
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND						

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: SP 3 1' (H244260-12)

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	07/17/2024	ND	2.00	100	2.00	0.282		
Toluene*	<0.050	0.050	07/17/2024	ND	1.98	98.9	2.00	0.625		
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	1.98	99.1	2.00	0.923		
Total Xylenes*	<0.150	0.150	07/17/2024	ND	5.82	97.0	6.00	1.21		
Total BTEX	<0.300	0.300	07/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/18/2024	ND	448	112	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	07/17/2024	ND	191	95.3	200	0.589		
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	193	96.5	200	0.820		
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND						

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: SP 3 2' (H244260-13)

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	07/17/2024	ND	1.97	98.5	2.00	6.50		
Toluene*	<0.050	0.050	07/17/2024	ND	1.96	97.8	2.00	6.94		
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	1.97	98.6	2.00	6.87		
Total Xylenes*	<0.150	0.150	07/17/2024	ND	5.79	96.5	6.00	7.04		
Total BTEX	<0.300	0.300	07/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/18/2024	ND	448	112	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	07/18/2024	ND	191	95.3	200	0.589		
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	193	96.5	200	0.820		
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND						

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: SP 3 3' (H244260-14)

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	07/17/2024	ND	1.97	98.5	2.00	6.50	
Toluene*	<0.050	0.050	07/17/2024	ND	1.96	97.8	2.00	6.94	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	1.97	98.6	2.00	6.87	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	5.79	96.5	6.00	7.04	
Total BTEX	<0.300	0.300	07/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/18/2024	ND	448	112	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	07/18/2024	ND	191	95.3	200	0.589	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	193	96.5	200	0.820	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: SP 3 4' (H244260-15)

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	07/17/2024	ND	1.97	98.5	2.00	6.50		
Toluene*	<0.050	0.050	07/17/2024	ND	1.96	97.8	2.00	6.94		
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	1.97	98.6	2.00	6.87		
Total Xylenes*	<0.150	0.150	07/17/2024	ND	5.79	96.5	6.00	7.04		
Total BTEX	<0.300	0.300	07/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/18/2024	ND	448	112	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	07/17/2024	ND	196	97.8	200	0.0552		
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	183	91.3	200	1.21		
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND						

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: SP 4 SURF (H244260-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2024	ND	1.97	98.5	2.00	6.50	
Toluene*	<0.050	0.050	07/17/2024	ND	1.96	97.8	2.00	6.94	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	1.97	98.6	2.00	6.87	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	5.79	96.5	6.00	7.04	
Total BTEX	<0.300	0.300	07/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/18/2024	ND	448	112	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	07/17/2024	ND	196	97.8	200	0.0552	
DRO >C10-C28*	55.7	10.0	07/17/2024	ND	183	91.3	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: SP 4 1' (H244260-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2024	ND	1.97	98.5	2.00	6.50	
Toluene*	<0.050	0.050	07/17/2024	ND	1.96	97.8	2.00	6.94	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	1.97	98.6	2.00	6.87	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	5.79	96.5	6.00	7.04	
Total BTEX	<0.300	0.300	07/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/18/2024	ND	448	112	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	07/17/2024	ND	196	97.8	200	0.0552	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	183	91.3	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 65.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: SP 4 2' (H244260-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2024	ND	1.97	98.5	2.00	6.50	
Toluene*	<0.050	0.050	07/17/2024	ND	1.96	97.8	2.00	6.94	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	1.97	98.6	2.00	6.87	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	5.79	96.5	6.00	7.04	
Total BTEX	<0.300	0.300	07/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/18/2024	ND	448	112	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	07/17/2024	ND	196	97.8	200	0.0552	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	183	91.3	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: SP 4 3' (H244260-19)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2024	ND	1.97	98.5	2.00	6.50	
Toluene*	<0.050	0.050	07/17/2024	ND	1.96	97.8	2.00	6.94	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	1.97	98.6	2.00	6.87	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	5.79	96.5	6.00	7.04	
Total BTEX	<0.300	0.300	07/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/18/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	196	97.8	200	0.0552	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	183	91.3	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: SP 4 4' (H244260-20)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/17/2024	ND	1.97	98.5	2.00	6.50		
Toluene*	<0.050	0.050	07/17/2024	ND	1.96	97.8	2.00	6.94		
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	1.97	98.6	2.00	6.87		
Total Xylenes*	<0.150	0.150	07/17/2024	ND	5.79	96.5	6.00	7.04		
Total BTEX	<0.300	0.300	07/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	196	97.8	200	0.0552		
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	183	91.3	200	1.21		
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND						

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: HZ 1 SURF (H244260-21)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2024	ND	1.97	98.5	2.00	6.50	
Toluene*	<0.050	0.050	07/17/2024	ND	1.96	97.8	2.00	6.94	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	1.97	98.6	2.00	6.87	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	5.79	96.5	6.00	7.04	
Total BTEX	<0.300	0.300	07/17/2024	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	16.0	16.0	07/18/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	196	97.8	200	0.0552	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	183	91.3	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: HZ 1 1' (H244260-22)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2024	ND	1.97	98.5	2.00	6.50	
Toluene*	<0.050	0.050	07/17/2024	ND	1.96	97.8	2.00	6.94	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	1.97	98.6	2.00	6.87	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	5.79	96.5	6.00	7.04	
Total BTEX	<0.300	0.300	07/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/18/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	196	97.8	200	0.0552	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	183	91.3	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: HZ 2 SURF (H244260-23)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2024	ND	1.97	98.5	2.00	6.50	
Toluene*	<0.050	0.050	07/18/2024	ND	1.96	97.8	2.00	6.94	
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	1.97	98.6	2.00	6.87	
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.79	96.5	6.00	7.04	
Total BTEX	<0.300	0.300	07/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/18/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	196	97.8	200	0.0552	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	183	91.3	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: HZ 2 1' (H244260-24)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2024	ND	1.97	98.5	2.00	6.50	
Toluene*	<0.050	0.050	07/18/2024	ND	1.96	97.8	2.00	6.94	
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	1.97	98.6	2.00	6.87	
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.79	96.5	6.00	7.04	
Total BTEX	<0.300	0.300	07/18/2024	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	<16.0	16.0	07/18/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	196	97.8	200	0.0552	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	183	91.3	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: HZ 3 SURF (H244260-25)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2024	ND	1.97	98.5	2.00	6.50	
Toluene*	<0.050	0.050	07/18/2024	ND	1.96	97.8	2.00	6.94	
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	1.97	98.6	2.00	6.87	
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.79	96.5	6.00	7.04	
Total BTEX	<0.300	0.300	07/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 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	07/18/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	196	97.8	200	0.0552	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	183	91.3	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: HZ 3 1' (H244260-26)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2024	ND	1.97	98.5	2.00	6.50	
Toluene*	<0.050	0.050	07/18/2024	ND	1.96	97.8	2.00	6.94	
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	1.97	98.6	2.00	6.87	
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.79	96.5	6.00	7.04	
Total BTEX	<0.300	0.300	07/18/2024	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	<16.0	16.0	07/18/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	196	97.8	200	0.0552	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	183	91.3	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: HZ 4 SURF (H244260-27)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2024	ND	1.97	98.5	2.00	6.50	
Toluene*	<0.050	0.050	07/18/2024	ND	1.96	97.8	2.00	6.94	
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	1.97	98.6	2.00	6.87	
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.79	96.5	6.00	7.04	
Total BTEX	<0.300	0.300	07/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	07/18/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	196	97.8	200	0.0552	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	183	91.3	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 69.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: HZ 4 1' (H244260-28)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2024	ND	1.97	98.5	2.00	6.50		
Toluene*	<0.050	0.050	07/18/2024	ND	1.96	97.8	2.00	6.94		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	1.97	98.6	2.00	6.87		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.79	96.5	6.00	7.04		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	196	97.8	200	0.0552		
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	183	91.3	200	1.21		
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND						

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Hungry/Horse LLC
 Project Manager: Daniel Dominguez
 Address: 4024 Plains Hwy
 City: Lovington State: NM Zip: 88260
 Phone #: 575 393-3386 Fax #:
 Project #: Project Owner: Murchison Oil & Gas
 Project Name: Bear Draw State Com #1
 Project Location: U/L G Sec 11 T17S - R28E
 Sampler Name: Roy Bell
 P.O. #:
 Company: Murchison Oil & Gas
 Attn: Greg Boans
 Address: 5325 Sierra Vista
 City: Carlsbad
 State: NM Zip: 88230
 Phone #: 575 706-0667
 Fax #:
BILL TO
ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chloride	TPH	BTEX 8021
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER					
10443600		Surf	G 1	X							7/16/24		X	X	X
		1'	G 1	X							7/16/24		X	X	X
		2'	G 1	X							7/16/24		X	X	X
		3'	G 1	X							7/16/24		X	X	X
		4'	G 1	X							7/16/24		X	X	X
		Surf	G 1	X							7/16/24		X	X	X
		1'	G 1	X							7/16/24		X	X	X
		2'	G 1	X							7/16/24		X	X	X
		3'	G 1	X							7/16/24		X	X	X
		4'	G 1	X							7/16/24		X	X	X

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Relinquished By: *[Signature]* Date: 7/17/24 Received By: *[Signature]* Date: 7/16/24
 Time: 8:58 AM Received Time: 5:00 PM
 Reminiquished By: *[Signature]* Date:
 Time: Received By: *[Signature]*

Delivered By: (Circle One) **UPS** - UPS - Bus - Other: **4.00 \$140**
 Sample Condition: Cool Intact Yes No
 CHECKED BY: *[Signature]*

REMARKS: Email results to: pm@hungry-horse.com gboans@jdmil.com
 Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Hungry Horse LLC		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Daniel Dominguez		Company: Murchison Oil & Gas					
Address: 4024 Plains Hwy		Attn: Greg Boans					
City: Lovington	State: NM	Zip: 88260	Address: 5325 Sierra Vista				
Phone #: 575 393-3386	Fax #:	City: Carlsbad					
Project #:	Project Owner: Murchison Oil & Gas	State: NM	Zip: 88230				
Project Name: Bear Draw State Com #1	Project Location: U/G Sec 11 T17S - R28E	Phone #: 575 706-0667					
Sampler Name: Roy Bell	Fax #:						

Lab I.D.	Sample I.D.	Depth	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	Chloride	TPH	BTEX 8021
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
11	SP3	Surf	G	1	X							7/16/24		X	X	X
12	SP3	1'	G	1	X							7/16/24		X	X	X
13	SP3	2'	G	1	X							7/16/24		X	X	X
14	SP3	3'	G	1	X							7/16/24		X	X	X
15	SP3	4'	G	1	X							7/16/24		X	X	X
16	SP4	Surf	G	1	X							7/16/24		X	X	X
17	SP4	1'	G	1	X							7/16/24		X	X	X
18	SP4	2'	G	1	X							7/16/24		X	X	X
19	SP4	3'	G	1	X							7/16/24		X	X	X
20	SP4	4'	G	1	X							7/16/24		X	X	X

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Relinquished By: *[Signature]* Date: 7-17-24 Received By: *[Signature]* Date: 7/16/24

Relinquished By: *[Signature]* Time: 0812 Received By: *[Signature]*

Delivered By: (Circle One) **4.0: #140**

Sampler - UPS - Bus - Other: UPS Bus Other

Sample Condition: Cool Intact Yes No

CHECKED BY: *[Signature]*

REMARKS: Email results to: pm@hungry-horse.com gboans@jdmil.com

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Hungry Horse LLC		P.O. #: BILL TO	
Project Manager: Daniel Dominguez		Company: Murchison Oil & Gas	
Address: 4024 Plains Hwy		Attn: Greg Boans	
City: Lovington	State: NM	Zip: 88260	
Phone #: 575 393-3386	Fax #:	Address: 5325 Sierra Vista	
Project #:	Project Owner: Murchison Oil & Gas	City: Carlsbad	State: NM
Project Name: Bear Draw State Com #1		Zip: 88230	Phone #: 575 706-0667
Project Location: U/L G Sec 11 T17S - R28E	Sampler Name: Roy Bell	Fax #:	

Lab I.D.	Sample I.D.	Depth	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX							DATE	TIME	Chloride	TPH	BTEX 8021
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
21	HZ1	Surf	G	1	X											
22	HZ1	1'	G	1	X											
23	HZ2	Surf	G	1	X											
24	HZ2	1'	G	1	X											
25	HZ3	Surf	G	1	X											
26	HZ3	1'	G	1	X											
27	HZ4	Surf	G	1	X											
28	HZ4	1'	G	1	X											

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Relinquished By: <i>[Signature]</i>	Date: 7/17/24	Received By: <i>[Signature]</i>	Date: 7/16/24
Relinquished By: <i>[Signature]</i>	Date: <i>[Blank]</i>	Received By: <i>[Signature]</i>	Date: <i>[Blank]</i>

Delivered By: (Circle One) 4.0 =	Sample Condition	CHECKED BY: <i>[Signature]</i>
Sampler - UPS - Bus - Other: #140	Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

REMARKS:

Phone Result: Yes No Add'l Phone #: _____

Fax Result: Yes No Add'l Fax #: _____

Email results to: pm@hungry-horse.com
 gboans@jdmii.com



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

October 01, 2024

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: BEAR DRAW STATE COM #1

Enclosed are the results of analyses for samples received by the laboratory on 09/30/24 13:48.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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:	09/30/2024	Sampling Date:	09/27/2024
Reported:	10/01/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: SW 1 0-1' (H245922-01)

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	09/30/2024	ND	1.99	99.4	2.00	5.83	
Toluene*	<0.050	0.050	09/30/2024	ND	1.94	97.2	2.00	5.23	
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.00	100	2.00	4.76	
Total Xylenes*	<0.150	0.150	09/30/2024	ND	5.96	99.3	6.00	4.87	
Total BTEX	<0.300	0.300	09/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	112	16.0	10/01/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2024	ND	202	101	200	1.09	
DRO >C10-C28*	<10.0	10.0	09/30/2024	ND	180	90.1	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	09/30/2024	ND					

Surrogate: 1-Chlorooctane 75.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.3 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/27/2024
Reported:	10/01/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: SW 2 0-1' (H245922-02)

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	09/30/2024	ND	1.99	99.4	2.00	5.83	
Toluene*	<0.050	0.050	09/30/2024	ND	1.94	97.2	2.00	5.23	
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.00	100	2.00	4.76	
Total Xylenes*	<0.150	0.150	09/30/2024	ND	5.96	99.3	6.00	4.87	
Total BTEX	<0.300	0.300	09/30/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/01/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2024	ND	202	101	200	1.09	
DRO >C10-C28*	<10.0	10.0	09/30/2024	ND	180	90.1	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	09/30/2024	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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:	09/30/2024	Sampling Date:	09/27/2024
Reported:	10/01/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: SW 3 0-1' (H245922-03)

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	09/30/2024	ND	1.99	99.4	2.00	5.83		
Toluene*	<0.050	0.050	09/30/2024	ND	1.94	97.2	2.00	5.23		
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.00	100	2.00	4.76		
Total Xylenes*	<0.150	0.150	09/30/2024	ND	5.96	99.3	6.00	4.87		
Total BTEX	<0.300	0.300	09/30/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/01/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/30/2024	ND	202	101	200	1.09		
DRO >C10-C28*	<10.0	10.0	09/30/2024	ND	180	90.1	200	1.93		
EXT DRO >C28-C36	<10.0	10.0	09/30/2024	ND						

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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:	09/30/2024	Sampling Date:	09/27/2024
Reported:	10/01/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: SW 4 0-1' (H245922-04)

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	09/30/2024	ND	1.99	99.4	2.00	5.83	
Toluene*	<0.050	0.050	09/30/2024	ND	1.94	97.2	2.00	5.23	
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.00	100	2.00	4.76	
Total Xylenes*	<0.150	0.150	09/30/2024	ND	5.96	99.3	6.00	4.87	
Total BTEX	<0.300	0.300	09/30/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/01/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2024	ND	202	101	200	1.09	
DRO >C10-C28*	<10.0	10.0	09/30/2024	ND	180	90.1	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	09/30/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
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 Fax To: (505) 391-4585

Received:	09/30/2024	Sampling Date:	09/27/2024
Reported:	10/01/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: SW 5 0-1' (H245922-05)

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	09/30/2024	ND	1.99	99.4	2.00	5.83	
Toluene*	<0.050	0.050	09/30/2024	ND	1.94	97.2	2.00	5.23	
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.00	100	2.00	4.76	
Total Xylenes*	<0.150	0.150	09/30/2024	ND	5.96	99.3	6.00	4.87	
Total BTEX	<0.300	0.300	09/30/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/01/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2024	ND	202	101	200	1.09	
DRO >C10-C28*	<10.0	10.0	09/30/2024	ND	180	90.1	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	09/30/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/27/2024
Reported:	10/01/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: FL 1 1' (H245922-06)

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	09/30/2024	ND	1.99	99.4	2.00	5.83		
Toluene*	<0.050	0.050	09/30/2024	ND	1.94	97.2	2.00	5.23		
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.00	100	2.00	4.76		
Total Xylenes*	<0.150	0.150	09/30/2024	ND	5.96	99.3	6.00	4.87		
Total BTEX	<0.300	0.300	09/30/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	10/01/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/30/2024	ND	202	101	200	1.09		
DRO >C10-C28*	<10.0	10.0	09/30/2024	ND	180	90.1	200	1.93		
EXT DRO >C28-C36	<10.0	10.0	09/30/2024	ND						

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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:	09/30/2024	Sampling Date:	09/27/2024
Reported:	10/01/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: FL 2 1' (H245922-07)

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	09/30/2024	ND	1.99	99.4	2.00	5.83		
Toluene*	<0.050	0.050	09/30/2024	ND	1.94	97.2	2.00	5.23		
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.00	100	2.00	4.76		
Total Xylenes*	<0.150	0.150	09/30/2024	ND	5.96	99.3	6.00	4.87		
Total BTEX	<0.300	0.300	09/30/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/01/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/30/2024	ND	202	101	200	1.09		
DRO >C10-C28*	<10.0	10.0	09/30/2024	ND	180	90.1	200	1.93		
EXT DRO >C28-C36	<10.0	10.0	09/30/2024	ND						

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/30/2024	Sampling Date:	09/27/2024
Reported:	10/01/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: FL 3 1' (H245922-08)

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	09/30/2024	ND	1.99	99.4	2.00	5.83		
Toluene*	<0.050	0.050	09/30/2024	ND	1.94	97.2	2.00	5.23		
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.00	100	2.00	4.76		
Total Xylenes*	<0.150	0.150	09/30/2024	ND	5.96	99.3	6.00	4.87		
Total BTEX	<0.300	0.300	09/30/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	10/01/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/30/2024	ND	202	101	200	1.09		
DRO >C10-C28*	<10.0	10.0	09/30/2024	ND	180	90.1	200	1.93		
EXT DRO >C28-C36	<10.0	10.0	09/30/2024	ND						

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	09/30/2024	Sampling Date:	09/27/2024
Reported:	10/01/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: FL 4 1' (H245922-09)

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	09/30/2024	ND	1.99	99.4	2.00	5.83		
Toluene*	<0.050	0.050	09/30/2024	ND	1.94	97.2	2.00	5.23		
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.00	100	2.00	4.76		
Total Xylenes*	<0.150	0.150	09/30/2024	ND	5.96	99.3	6.00	4.87		
Total BTEX	<0.300	0.300	09/30/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	10/01/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/30/2024	ND	202	101	200	1.09		
DRO >C10-C28*	<10.0	10.0	09/30/2024	ND	180	90.1	200	1.93		
EXT DRO >C28-C36	<10.0	10.0	09/30/2024	ND						

Surrogate: 1-Chlorooctane 75.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.8 % 49.1-148

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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:	09/30/2024	Sampling Date:	09/27/2024
Reported:	10/01/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: FL 5 1' (H245922-10)

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	09/30/2024	ND	1.99	99.4	2.00	5.83		
Toluene*	<0.050	0.050	09/30/2024	ND	1.94	97.2	2.00	5.23		
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.00	100	2.00	4.76		
Total Xylenes*	<0.150	0.150	09/30/2024	ND	5.96	99.3	6.00	4.87		
Total BTEX	<0.300	0.300	09/30/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/01/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/30/2024	ND	202	101	200	1.09		
DRO >C10-C28*	<10.0	10.0	09/30/2024	ND	180	90.1	200	1.93		
EXT DRO >C28-C36	<10.0	10.0	09/30/2024	ND						

Surrogate: 1-Chlorooctane 65.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 54.8 % 49.1-148

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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:	09/30/2024	Sampling Date:	09/27/2024
Reported:	10/01/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: FL 6 1' (H245922-11)

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	09/30/2024	ND	1.99	99.4	2.00	5.83		
Toluene*	<0.050	0.050	09/30/2024	ND	1.94	97.2	2.00	5.23		
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.00	100	2.00	4.76		
Total Xylenes*	<0.150	0.150	09/30/2024	ND	5.96	99.3	6.00	4.87		
Total BTEX	<0.300	0.300	09/30/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	10/01/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/30/2024	ND	202	101	200	1.09		
DRO >C10-C28*	<10.0	10.0	09/30/2024	ND	180	90.1	200	1.93		
EXT DRO >C28-C36	<10.0	10.0	09/30/2024	ND						

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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:	09/30/2024	Sampling Date:	09/27/2024
Reported:	10/01/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: FL 7 1' (H245922-12)

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	09/30/2024	ND	1.99	99.4	2.00	5.83		
Toluene*	<0.050	0.050	09/30/2024	ND	1.94	97.2	2.00	5.23		
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.00	100	2.00	4.76		
Total Xylenes*	<0.150	0.150	09/30/2024	ND	5.96	99.3	6.00	4.87		
Total BTEX	<0.300	0.300	09/30/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/01/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/30/2024	ND	202	101	200	1.09		
DRO >C10-C28*	<10.0	10.0	09/30/2024	ND	180	90.1	200	1.93		
EXT DRO >C28-C36	<10.0	10.0	09/30/2024	ND						

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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:	09/30/2024	Sampling Date:	09/27/2024
Reported:	10/01/2024	Sampling Type:	Soil
Project Name:	BEAR DRAW STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/G SEC 11 T17S - R28E		

Sample ID: FL 8 1' (H245922-13)

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	09/30/2024	ND	1.99	99.4	2.00	5.83		
Toluene*	<0.050	0.050	09/30/2024	ND	1.94	97.2	2.00	5.23		
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.00	100	2.00	4.76		
Total Xylenes*	<0.150	0.150	09/30/2024	ND	5.96	99.3	6.00	4.87		
Total BTEX	<0.300	0.300	09/30/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/01/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	202	101	200	1.09		
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	180	90.1	200	1.93		
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND						

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.5 % 49.1-148

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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Hungry Horse LLC
 Project Manager: Daniel Dominguez
 Address: 4024 Plains Hwy
 City: Lovington State: NM Zip: 88260
 Phone #: 575 393-3386 Fax #:
 Project #: Project Owner: Murchison Oil & Gas
 Project Name: Bear Draw State Com #1
 Project Location: UL/ G Sec 11 T17S - R28E
 Sampler Name: Kelly Matthews
 P.O. #:
 Company: Murchison Oil & Gas
 Attn: Greg Boans
 Address: 5325 Sierra Vista
 City: Carlsbad
 State: NM Zip: 88230
 Phone #: 575 706-0667
 Fax #:
 PRESERV.
 SAMPLING

Lab I.D.	Sample I.D.	Depth	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	Chloride	TPH	BTEX 8021
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
HLK002	SW1	0-1'	C	1	X	X	X	X	X	X	9/27/24	8:30	X	X	X	
	SW2	0-1'	C	1	X	X	X	X	X	X	9/27/24	8:32	X	X	X	
	SW3	0-1'	C	1	X	X	X	X	X	X	9/27/24	8:34	X	X	X	
	SW4	0-1'	C	1	X	X	X	X	X	X	9/27/24	8:36	X	X	X	
	SW5	0-1'	C	1	X	X	X	X	X	X	9/27/24	8:38	X	X	X	

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Relinquished By: *[Signature]* Date: 9/29/24 Time: 3:40
 Received By: *[Signature]* Date: 9/29/24 Time: 1:48

Delivered By: (Circle One) UPS Bus Other: 1.3L/C.O.U. 0.7L/FLUD
 Sample Condition: Cool Intact Yes No

REMARKS: 24 Hr Rush!
 Email results to: pm@hungry-horse.com
 gboans@jdmii.com

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Hungry Horse LLC
 Project Manager: Daniel Dominguez
 Address: 4024 Plains Hwy
 City: Lovington State: NM Zip: 88260
 Phone #: 575 393-3386 Fax #:
 Project #: Project Owner: Murchison Oil & Gas
 Project Name: Bear Draw State Com #1
 Project Location: U/L G Sec 11 T17S - R28E
 Sampler Name: Kelly Matthews
 P.O. #:
 Company: Murchison Oil & Gas
 Attn: Greg Boans
 Address: 5325 Sierra Vista
 City: Carlsbad
 State: NM Zip: 88230
 Phone #: 575 706-0667
 Fax #:

Lab I.D.	Sample I.D.	Depth	(G)RAB OR (C)OMP.	MATRIX						DATE	TIME	Chloride	TPH	BTEX 8021
				# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE					
1145522	FL1	1'	C 1	X						9/27/24	8:05	X	X	X
	FL2	1'	C 1	X						9/27/24	8:07	X	X	X
	FL3	1'	C 1	X						9/27/24	8:09	X	X	X
	FL4	1'	C 1	X						9/27/24	8:11	X	X	X
	FL5	1'	C 1	X						9/27/24	8:13	X	X	X
	FL6	1'	C 1	X						9/27/24	8:15	X	X	X
	FL7	1'	C 1	X						9/27/24	8:17	X	X	X
	FL8	1'	C 1	X						9/27/24	8:19	X	X	X

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Relinquished By: *[Signature]*
 Date: 9/30/24
 Time: 13:40
 Received By: *[Signature]*
 Date: 9/30/24
 Time: 13:48

Delivered By: (Circle One) UPS Bus Other: 1-30/C.O.W.C.
 Sampler - UPS - Bus - Other: 0-7-2 / #118

Sample Condition: Cool Intact
 Yes No

REMARKS: 24 Hr Rush!
 Email results to: pm@hungry-horse.com
 gboans@jdmii.com

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

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 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 396598

QUESTIONS

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 396598
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nMLB1215347504
Incident Name	NMLB1215347504 BEAR DRAW STATE COM #001 @ 30-015-35679
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-35679] BEAR DRAW STATE COM #001

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	BEAR DRAW STATE COM #001
Date Release Discovered	05/10/2012
Surface Owner	State

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Oil 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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Cause: Lightning Production Tank Crude Oil Released: 78 BBL Recovered: 0 BBL Lost: 78 BBL.
Produced Water Released (bbls) Details	Cause: Lightning Production Tank Produced Water Released: 22 BBL Recovered: 0 BBL Lost: 22 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.

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

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 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, Page 2

Action 396598

QUESTIONS (continued)

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 396598
	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.
<i>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.</i>	

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	<i>Not answered.</i>

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

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

I hereby agree and sign off to the above statement	Name: Bradley Wells Title: Enviro Manager Email: bwells@hungry-horse.com Date: 10/29/2024
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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS (continued)

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 396598
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
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)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (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	High
A 100-year floodplain	Greater than 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
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

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

Chloride (EPA 300.0 or SM4500 Cl B)	240
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	150.9
GRO+DRO (EPA SW-846 Method 8015M)	134
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	09/23/2024
On what date will (or did) the final sampling or liner inspection occur	09/27/2024
On what date will (or was) the remediation complete(d)	10/02/2024
What is the estimated surface area (in square feet) that will be reclaimed	1400
What is the estimated volume (in cubic yards) that will be reclaimed	60
What is the estimated surface area (in square feet) that will be remediated	1400
What is the estimated volume (in cubic yards) that will be remediated	60

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

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

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QUESTIONS, Page 4

Action 396598

QUESTIONS (continued)

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 396598
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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: Bradley Wells Title: Enviro Manager Email: bwells@hungry-horse.com Date: 10/29/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 396598

QUESTIONS (continued)

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 396598
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 396598

QUESTIONS (continued)

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 396598
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	386166
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/27/2024
What was the (estimated) number of samples that were to be gathered	13
What was the sampling surface area in square feet	1400

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	1400
What was the total volume (cubic yards) remediated	60
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 chloride are below the NMOCD Closure Criteria. No Reclamation took place as the site is reasonably needed for production activities.

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: Bradley Wells Title: Enviro Manager Email: bwells@hungry-horse.com Date: 10/29/2024
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QUESTIONS, Page 7

Action 396598

QUESTIONS (continued)

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 396598
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 396598

CONDITIONS

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 396598
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation closure approved	10/29/2024
bhall	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	10/29/2024
bhall	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	10/29/2024
bhall	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	10/29/2024
bhall	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeded activities, inspections, and final pictures when revegetation is achieved.	10/29/2024