



Remediation Summary and Closure Request

Ridge Runner Resources Operating, LLC

Frosty Federal Com #1

Eddy County, New Mexico

Unit Letter "H", Section 26, Township 16 South, Range 27 East

Latitude 32.894739 North, Longitude 104.242337 West

NMOCD Incident # NMLB1122439938

Prepared For:

Ridge Runner Resources Operating, LLC

4000 N Big Spring Ste 210

Midland, TX 79705

Prepared By:

Hungry Horse, LLC

4024 Plains Hwy

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November 2024

A handwritten signature in black ink, appearing to read "Daniel Dominguez", is written over a horizontal line.

Daniel Dominguez

Environmental Director

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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 H (SEW/NE), Section 29, Township 16 South, Range 27 East, approximately eleven miles Northeast of Riverside, in Eddy County, New Mexico. The site is located on Bureau of Land Management land. Topographic Map, OSE POD Locations Map, and USGS Well Locations Map are included as Figure 1, Figure 2, and Figure 3, respectively.

The release occurred in an active tank battery; Latitude 32.894739 North, Longitude 104.242337 West. The NMOCD Form C-141 indicates that on July 11, 2011, the release of one hundred thirty-two bbls of crude oil was caused by the oil tanks running over. Approximately ninety bbls of oil were recovered via vacuum truck. 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 located in a Gypsum Karst designated area. Depth to groundwater information is provided as Attachment IV and the results are depicted on Figures 2 and 3.

One water well was located within a half mile of the release area, with no groundwater depth listed. Also, as the site is located in a Gypsum Karst designated area, the site was remediated according to the strictest NMOCD Closure Criteria. Utilizing this information, the NMOCD Closure Criteria for the Site were determined as follows:

Depth to Groundwater	Constituent	Method	Limit
<50'	Chloride	EPA 300.0 or SM4500 CLB	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg
	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 Reeves-Gypsum land complex consisting of loam and clay loam soils with 0 to 1 percent slopes. As the release occurred within an active tank battery and pad, no seeding will be required. Karst, Wetland, and Soil Maps are provided as Attachment I.



Delineation and Remediation Activities:

In August 2011, the release area was cleaned up, liner inspected, and gravel replaced, however, a Final C-141 or closure report were not submitted. In May 2024, RT Hicks Consultants were contracted to prepare a sampling plan which was subsequently approved. In September 2024, Murchison Oil and Gas contracted Hungry Horse, LLC to complete sampling according to the approved sampling plan and conduct a liner inspection at the Frosty Federal facility.

On September 9, 2024, Hungry Horse notified OCD that a liner inspection would occur at the Frosty Federal Com #1 on September 11, 2024. On September 11, 2024, the liner inspection was conducted. Correspondence is provided as Attachment II. The containment liner failed inspection as multiple tears were found. Completed Liner Inspection Report provided as Attachment V.

On September 19, 2024, Hungry Horse notified OCD that delineation sampling would occur at the Frosty Federal Com #1 on September 23, 2024. On September 23, 2024, Hungry Horse conducted delineation sampling of the liner tears. Areas outside containment identified in RT Hicks Consultants OCD approved sampling plan were also sampled. During sampling activities, sample test trenches were advanced in an effort to determine the vertical extent of contamination, if any. During 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.

Forty-eight representative soil samples were selected for laboratory analysis. Delineation soil samples TT1 – TT9, and SP10, SP11, and SP12, 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 TT4 at one and three feet bgs, TT5 – TT9 at Surface through four feet bgs, and SP10 – SP12, each at Surface, which exhibited TPH and/or chloride concentrations in excess of NMOCD Closure Criteria.

On October 2, 2024, the areas characterized by sample locations TT5 – TT9, SP10, SP11, and SP12 were fully delineated. Eight delineation soil samples, TT5 – TT9, SP10, SP11, and SP12, 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.

From October 10 through 16, 2024, the areas characterized by sample locations TT4 – TT9, SP10, SP11, and SP12 were excavated. Excavated contaminated soil was immediately loaded and transported to an NMOCD approved disposal facility.

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



On October 29, 2024, twenty-five 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 FL10 and SW1 through SW15, 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.

As remediation activities were completed, Murchison Oil and Gas sold this location, among other assets, to Ridge Runner Resources Operating, LLC.

The affected areas totaled approximately fourteen hundred square feet, and varied in depth from two to five feet bgs. During remediation activities approximately 300 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, with each collected sample representing an area no greater than 200 square feet. These sample locations are identified by FL designation. Five-point composite soil samples were also collected from the sidewalls of the excavation, with each collected sample representing an area no greater than 200 square feet. These sample locations are identified by SW designation.

Excavation sidewall samples SW1 through SW15 were collected as five-point composite samples from the excavation surface to the excavation floor. 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 excavations were backfilled with locally sourced, clean, non-impacted soil. The areas were contoured to achieve erosion control and preserve surface water flow. As the release occurred within an active tank battery and 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 Frosty Federal Com #1 location, NMLB1122439938.



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.

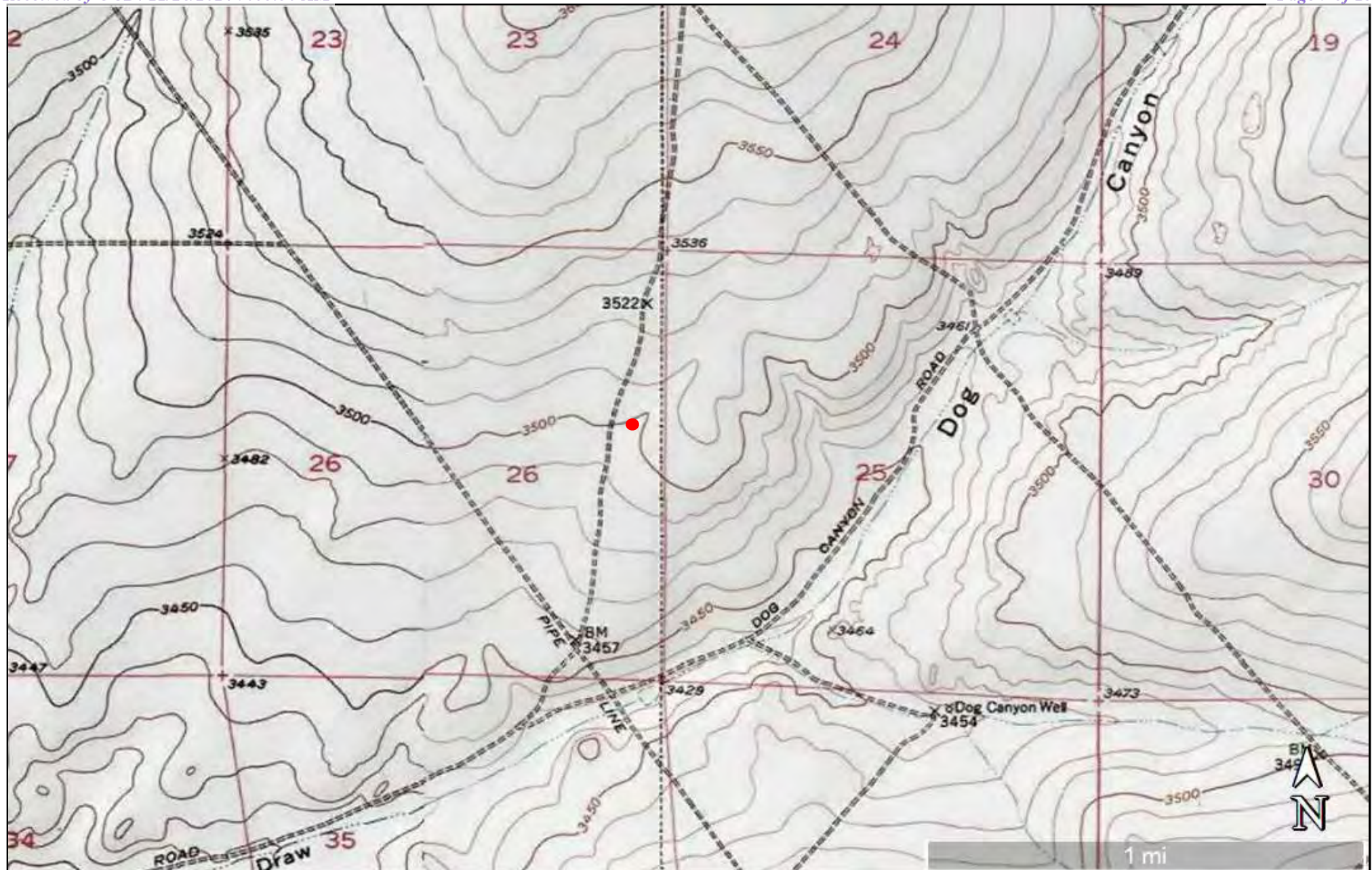
Artesia, NM 88210

New Mexico Bureau of Land Management

620 E. Greene St.

Carlsbad, NM 88220

Figures

**Figure 1**

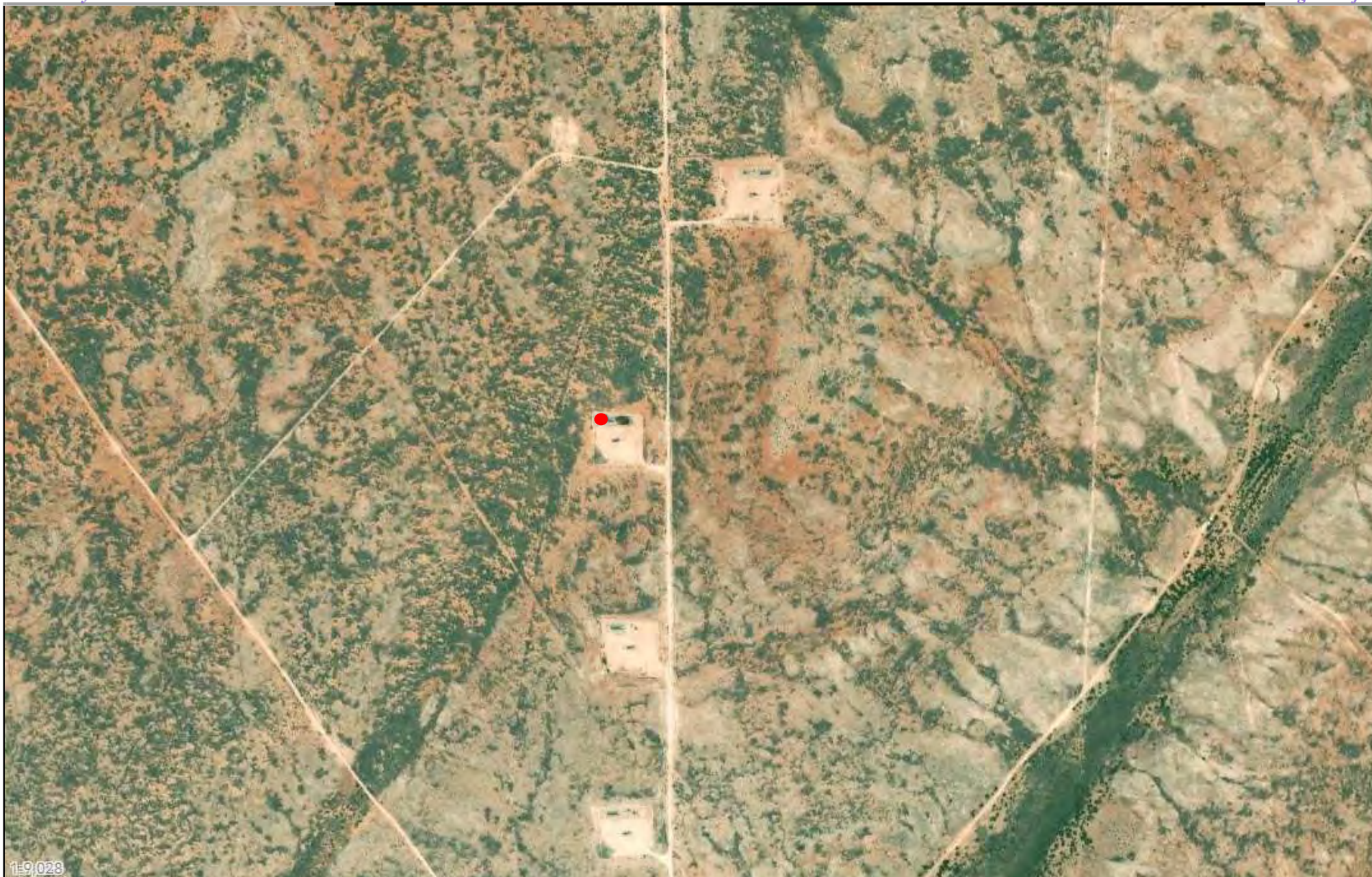
Topographic Map
 Ridge Runner Resources Operating, LLC
 Frosty Federal Com #1
 GPS: 32.894739, -104.242337
 Eddy County

Legend:

● Frosty Federal Com #1 Location

Drafted: dd
 Checked: km
 Date: 9/10/24



**Figure 2**

OSE POD Locations Map
Ridge Runner Resources Operating, LLC
Frosty Federal Com #1
GPS: 32.894739, -104.242337
Eddy County

Legend:

● Frosty Federal Com #1 Location

Drafted: dd
Checked: km
Date: 9/10/24



**Figure 3**

USGS Well Locations Map
Ridge Runner Resources Operating, LLC
Frosty Federal Com #1
GPS: 32.894739, -104.242337
Eddy County

Legend:

- Frosty Federal Com #1 Location
- USGS Well Location

Drafted: dd
Checked: km
Date: 9/10/24



**Figure 4**

Delineation Sample Map
 Ridge Runner Resources Operating, LLC
 Frosty Federal Com #1
 GPS: 32.894739, -104.242337
 Eddy County

Legend:

- SP10 Liner Tear Sample Locations
TT1 Delineation Sample Locations

Drafted: dd
 Checked: km
 Date: 9/20/24



**Figure 5**

Excavation Sample Map
 Ridge Runner Resources Operating, LLC
 Frosty Federal Com #1
 GPS: 32.894739, -104.242337
 Eddy County

Legend:

- Excavated Areas
 FL1 Composite Confirmation Sample Location

Drafted: dd
 Checked: km
 Date: 10/29/24



Table

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
Ridge Runner Resources Operating, LLC
Frosty Federal Com #1
NMOCD Ref. #: nMLB1122439938

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)
TT1	9/23/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
	9/23/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
	9/23/24	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
	9/23/24	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	9/23/24	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
TT2	9/23/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	9/23/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
	9/23/24	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
	9/23/24	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
	9/23/24	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
TT3	9/23/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
	9/23/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
	9/23/24	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
	9/23/24	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
	9/23/24	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
TT4	9/23/24	Surf	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
	9/23/24	1	Excavated	<0.050	<0.300	<10.0	1,420	1,420	528	1,948	448
	9/23/24	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
	9/23/24	3	Excavated	<0.050	<0.300	<10.0	2,280	2,280	823	3,103	624
	9/23/24	4	in-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
TT5	9/23/24	Surf	Excavated	<0.050	<0.300	<10.0	2,210	2,210	729	2,939	496
	9/23/24	1	Excavated	<0.050	<0.300	<10.0	1,980	1,980	584	2,564	528
	9/23/24	2	Excavated	<0.050	<0.300	<10.0	703	703	197	900	496
	9/23/24	3	Excavated	<0.050	<0.300	<10.0	2,700	2,700	927	3,627	480
	9/23/24	4	Excavated	<0.050	<0.300	<10.0	1,940	1,940	674	2,614	368
	10/2/24	6	in-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
TT6	9/23/24	Surf	Excavated	<0.050	<0.300	<10.0	2,110	2,110	784	2,894	480
	9/23/24	1	Excavated	<0.050	<0.300	<10.0	1,690	1,690	519	2,209	432
	9/23/24	2	Excavated	<0.050	<0.300	<10.0	2,570	2,570	860	3,430	320
	9/23/24	3	Excavated	<0.050	<0.300	<10.0	1,640	1,640	595	2,235	432
	9/23/24	4	Excavated	<0.050	<0.300	<10.0	1,980	1,980	691	2,671	368
	10/2/24	6	in-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
TT7	9/23/24	Surf	Excavated	<0.050	<0.300	<10.0	2,630	2,630	961	3,591	192
	9/23/24	1	Excavated	<0.050	<0.300	<10.0	1,090	1,090	401	1,491	464
	9/23/24	2	Excavated	<0.050	<0.300	<10.0	3,060	3,060	1,030	4,090	320
	9/23/24	3	Excavated	<0.050	<0.300	<10.0	1,970	1,970	700	2,670	368
	9/23/24	4	Excavated	<0.050	<0.300	<10.0	2,600	2,600	965	3,565	320
	10/2/24	6	in-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
TT8	9/23/24	Surf	Excavated	<0.050	<0.300	<10.0	2,440	2,440	1,030	3,470	400
	9/23/24	1	Excavated	<0.050	<0.300	<10.0	2,260	2,260	967	3,227	384
	9/23/24	2	Excavated	<0.050	<0.300	<10.0	2,390	2,390	1,070	3,460	368
	9/23/24	3	Excavated	<0.050	<0.300	<10.0	1,940	1,940	817	2,757	368
	9/23/24	4	Excavated	<0.050	<0.300	<10.0	1,700	1,700	707	2,407	352
	10/2/24	6	in-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NMOCD Closure Criteria				10	50	-	-	N/A	-	100	600

NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
Ridge Runner Resources Operating, LLC
Frosty Federal Com #1
NMOCD Ref. #: nMLB1122439938

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)
TT9	9/23/24	Surf	Excavated	<0.050	<0.300	<10.0	1,930	1,930	856	2,786	416
	9/23/24	1	Excavated	<0.050	<0.300	<10.0	2,260	2,260	939	3,199	496
	9/23/24	2	Excavated	<0.050	<0.300	<10.0	2,240	2,240	1,020	3,260	384
	9/23/24	3	Excavated	<0.050	<0.300	<10.0	2,820	2,820	1,180	4,000	576
	9/23/24	4	Excavated	<0.050	<0.300	<10.0	2,480	2,480	1,040	3,520	416
	10/2/24	6	in-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SP10	9/23/24	Surf	Excavated	<0.050	<0.300	<10.0	223	223	130	353	48.0
	10/2/24	2	in-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SP11	9/23/24	Surf	Excavated	<0.050	<0.300	<10.0	301	301	150	451	48.0
	10/2/24	2	in-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SP12	9/23/24	Surf	Excavated	<0.050	<0.300	<10.0	2,740	2,740	1,450	4,190	48.0
	10/2/24	4	in-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NMOCD Closure Criteria				10	50	-	-	N/A	-	100	600

NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

TABLE 1
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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)
FL1	10/29/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL2	10/29/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL3	10/29/24	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL4	10/29/24	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL5	10/29/24	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL6	10/29/24	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL7	10/29/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL8	10/29/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL9	10/29/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL10	10/29/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW1	10/29/24	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW2	10/29/24	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW3	10/29/24	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW4	10/29/24	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW5	10/29/24	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW6	10/29/24	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW7	10/29/24	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW8	10/29/24	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW9	10/29/24	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW10	10/29/24	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW11	10/29/24	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW12	10/29/24	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW13	10/29/24	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW14	10/29/24	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW15	10/29/24	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NMOCD Closure Criteria				10	50	-	-	N/A	-	100	600

NOTES:

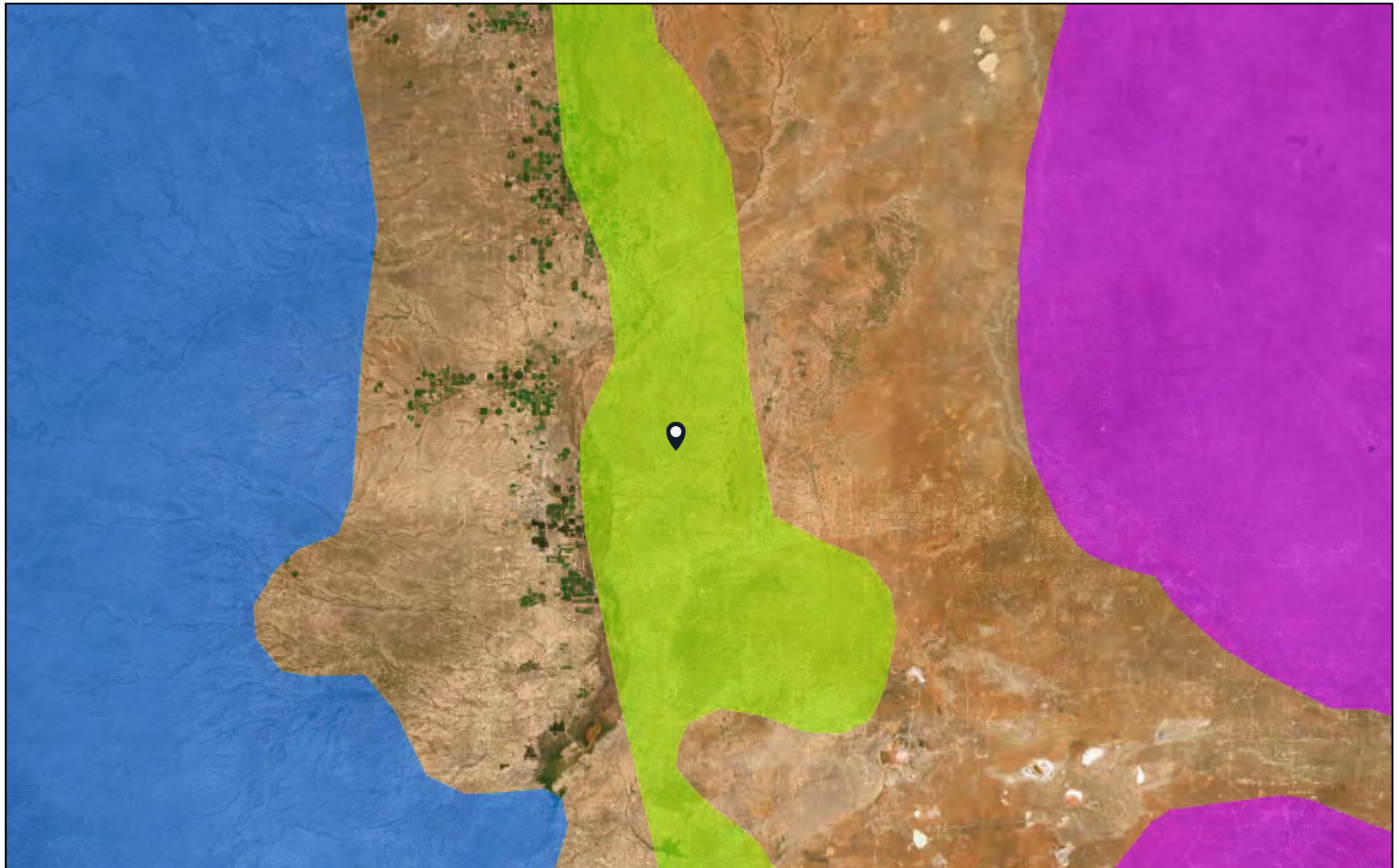
- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Attachment I

Karst, Wetland, and Soil Maps

Frosty Federal Com #1



11/21/2024

Karst Type

- Carbonate
- Erosional
- Gypsum

■ Volcanic

World Imagery

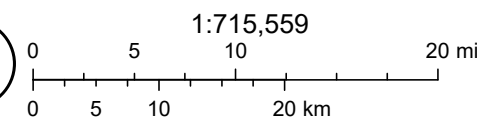
Low Resolution 15m Imagery

High Resolution 60cm Imagery

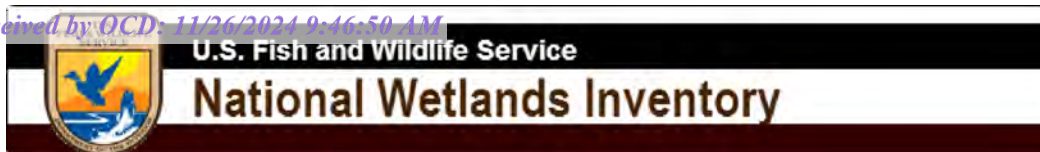
High Resolution 30cm Imagery

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



Frosty Federal Com #1



November 21, 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
(Frosty Federal Com #1)

32° 54' 15" N

32° 54' 15" N

32° 53' 7" N

32° 53' 7" N

104° 15' 34" W

104° 13' 30" W

104° 15' 34" W

104° 13' 30" W



Map Scale: 1:14,800 if printed on A landscape (11" x 8.5") sheet.

0 200 400 800 1200 Meters

0 500 1000 2000 3000 Feet


Map projection: Web Mercator Corner coordinates: WGS84

Natural Resources
Conservation ServiceWeb Soil Survey
National Cooperative Soil Survey11/21/2024
Page 1 of 3

Soil Map—Eddy Area, New Mexico
(Frosty Federal 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
GA	Gypsum land	58.8	5.4%
GC	Gypsum land-Cottonwood complex, 0 to 3 percent slopes	417.9	38.3%
GR	Gypsum land-Reeves complex, 0 to 3 percent slopes, eroded	2.0	0.2%
LG	Largo silt loam, overflow, 0 to 1 percent slopes	54.6	5.0%
RG	Reeves-Gypsum land complex, 0 to 3 percent slopes	556.6	51.1%
Totals for Area of Interest		1,090.0	100.0%

Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

Frosty Federal Com #1

Eddy Area, New Mexico

RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5f

Elevation: 1,250 to 5,000 feet

Mean annual precipitation: 10 to 25 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 190 to 235 days

Farmland classification: Not prime farmland

Map Unit Composition

Reeves and similar soils: 55 percent

Gypsum land: 30 percent

Minor components: 15 percent

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

Description of Reeves

Setting

Landform: Ridges, plains, hills

Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope

Landform position (three-dimensional): Side slope, head slope, nose slope, crest

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 8 inches: loam

H2 - 8 to 32 inches: clay loam

H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: 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: 25 percent

Gypsum, maximum content: 80 percent

Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Low (about 4.3 inches)



Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

Frosty Federal Com #1

Interpretive groups

Land capability classification (irrigated): 3s

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: B

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Description of Gypsum Land

Setting

Landform: Ridges, plains, hills

Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope

Landform position (three-dimensional): Side slope, head slope, nose slope, crest

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Hydric soil rating: No

Minor Components

Largo

Percent of map unit: 5 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Reagan

Percent of map unit: 5 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Cottonwood

Percent of map unit: 5 percent

Ecological site: R070BC033NM - Salty Bottomland

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

Cindy Cottrell

From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Sent: Thursday, May 16, 2024 9:59 AM
To: Kristin Pope; blm_nm_cfo_spill@blm.gov
Cc: Greg Boans; Rusty Cooper; r@rthicksconsult.com; Smith, Cory, EMNRD; Bratcher, Michael, EMNRD; Romero, Rosa, EMNRD; Moander, Chris, EMNRD; Powell, Brandon, EMNRD; Cindy Cottrell
Subject: RE: [EXTERNAL] Frosty nMLB1122439938 - Sampling Plan

Kristin,

Thank you for the update. Please be advised that OCD will require additional delineation sampling if horizontal and vertical delineation is not achieved during this sampling event. Depending on field screening (if you are planning on field screening) and/or analytical results, horizontal samples may need to be collected east and south of the containment to achieve horizontal delineation. The samples west and north of the containment may also need to be stepped out further away from the containment to achieve horizontal delineation. Vertical delineation may also need to be extended past the proposed 7-8 feet.

Pursuant to 19.15.29.11 A.(5)(a) NMAC, liner integrity must be demonstrated by visually inspecting the liner after all affected material is removed from the lined containment. Based on the Google Earth aerials, the affected area was much larger than the proposed six 3 feet by 3 feet squares. Additionally, OCD has additional information, provided by Murchison, that the liner was inspected and repaired. OCD does not have any additional information regarding how many places the liner was repaired or where the repair(s) were located. The entire liner will need to be fully inspected and all the gravel will need to be removed in order to achieve the liner inspection.

OCD is also requiring information regarding the liner and tanks. Please provide the following information (including pictures): Are the tanks on top of the liner, is the liner sealed to the tanks, or does the liner just run up to the tanks?

Please include a copy of this email in the report.

Thank you,

Brittany Hall ● Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.517.5333 | Brittany.Hall@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd/>

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMNRD Website prior to submitting any C-141s. The guidance documents can be found at <https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/> or <https://www.emnrd.nm.gov/ocd/ocd-forms/>.

From: Kristin Pope <kristin@rthicksconsult.com>
Sent: Wednesday, May 15, 2024 12:23 PM
To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; blm_nm_cfo_spill@blm.gov
Cc: 'Greg Boans' <gboans@jdmii.com>; 'Rusty Cooper' <rcooper@jdmii.com>; r@rthicksconsult.com; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Romero, Rosa, EMNRD <RosaM.Romero@emnrd.nm.gov>; Moander, Chris, EMNRD <Chris.Moander@emnrd.nm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@emnrd.nm.gov>; 'Cindy Cottrell' <ccottrell@jdmii.com>
Subject: RE: [EXTERNAL] Frosty nMLB1122439938 - Sampling Plan

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 381510

QUESTIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 381510
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nMLB1122439938
Incident Name	NMLB1122439938 2011 MAJOR AIA OS @ 30-015-37003
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-37003] FROSTY FEDERAL COM #001

Location of Release Source	
Site Name	Unavailable.
Date Release Discovered	07/11/2011
Surface Owner	Federal

Liner Inspection Event Information	
Please answer all the questions in this group.	
What is the liner inspection surface area in square feet	10,000
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	09/11/2024
Time liner inspection will commence	08:00 AM
Please provide any information necessary for observers to liner inspection	Roy Bell 575-626-8959
Please provide any information necessary for navigation to liner inspection site	32.894433, -104.242064

District I
1625 N. French Dr., Hobbs, NM 88240
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Santa Fe, NM 87505

CONDITIONS

Action 381510

CONDITIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 381510
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
ccottrell	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	9/9/2024

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
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1000 Rio Brazos Rd., Aztec, NM 87410
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District IV

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Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 384927

QUESTIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 384927
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nMLB1122439938
Incident Name	NMLB1122439938 2011 MAJOR AIA OS @ 30-015-37003
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-37003] FROSTY FEDERAL COM #001

Location of Release Source	
Site Name	Unavailable.
Date Release Discovered	07/11/2011
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	300
What is the estimated number of samples that will be gathered	84
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/23/2024
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	32.894739, -104.242337

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1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 384927

CONDITIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 384927
	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.	9/19/2024

District I1625 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 395562

QUESTIONS

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 395562
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nMLB1122439938
Incident Name	NMLB1122439938 2011 MAJOR AIA OS @ 30-015-37003
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-37003] FROSTY FEDERAL COM #001

Location of Release Source	
Site Name	Unavailable.
Date Release Discovered	07/11/2011
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,400
What is the estimated number of samples that will be gathered	25
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/29/2024
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	32.894739, -104.242337

District I
1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 395562

CONDITIONS

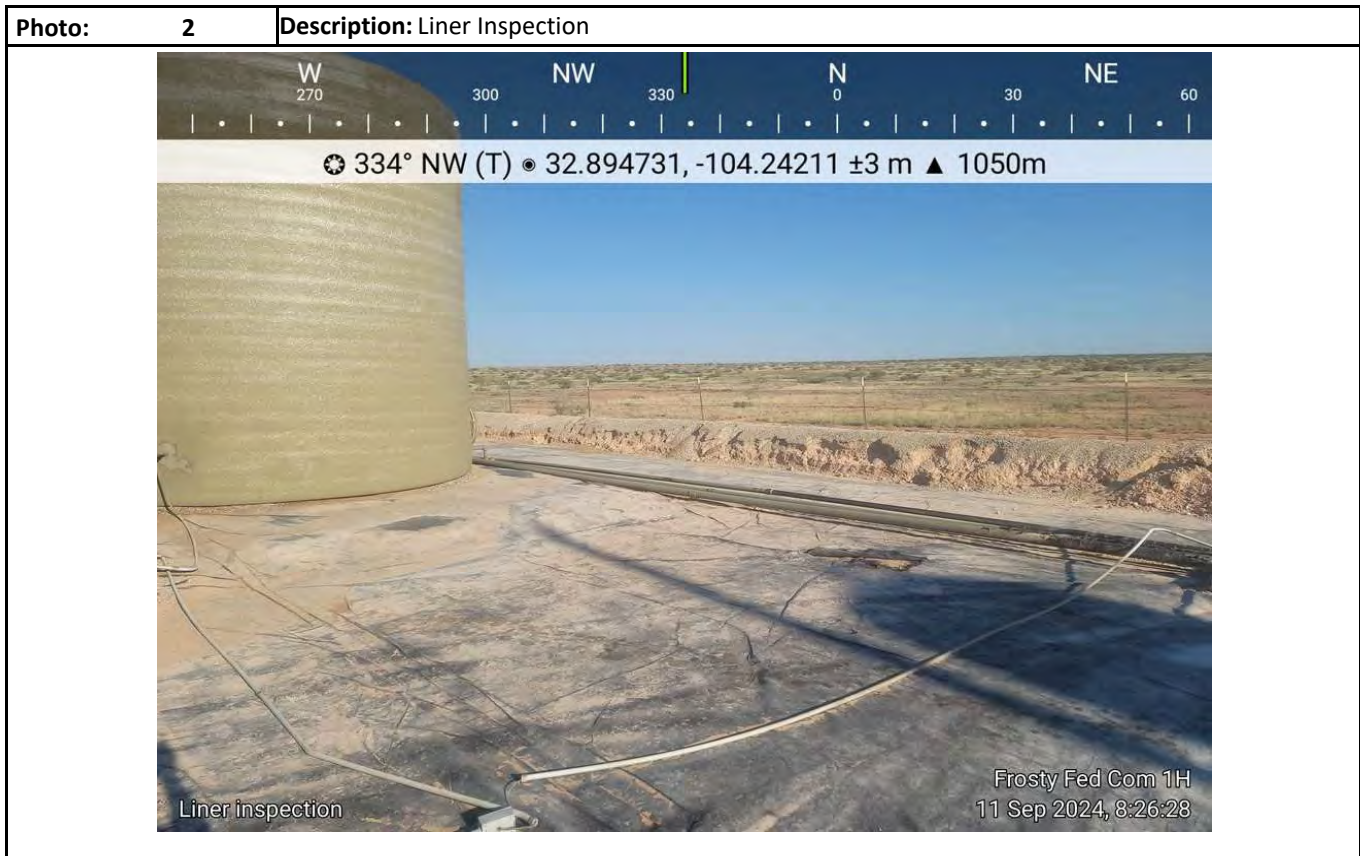
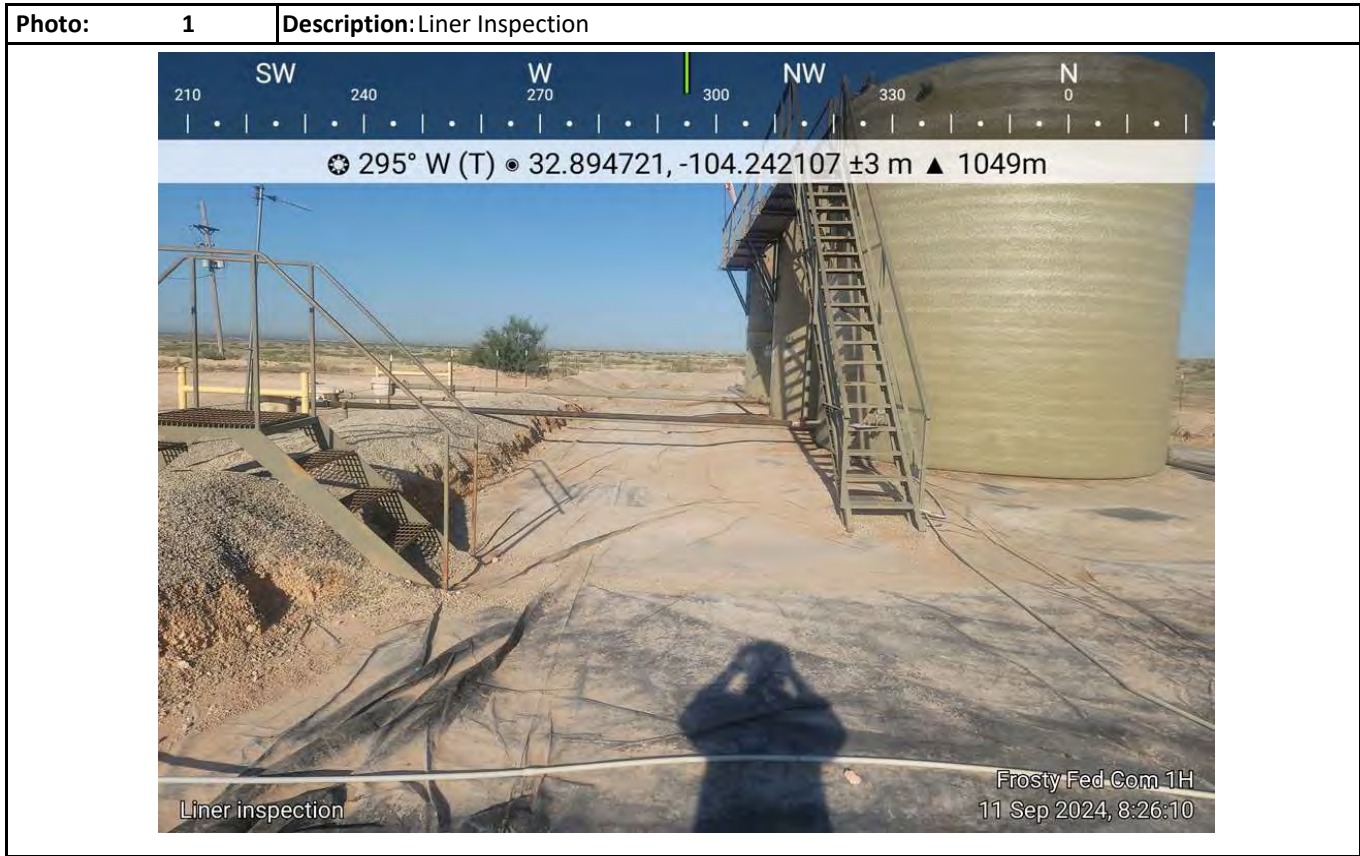
Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 395562
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

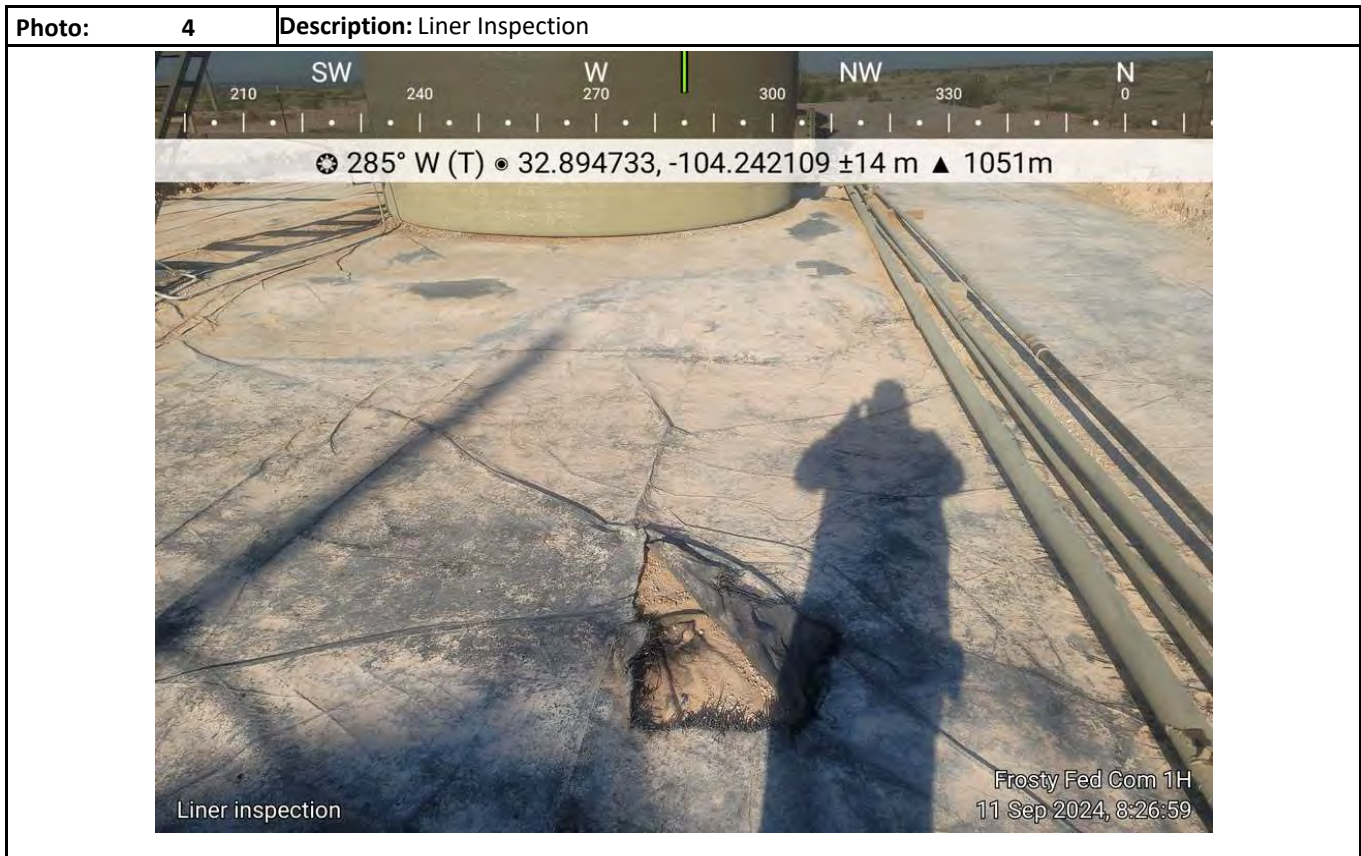
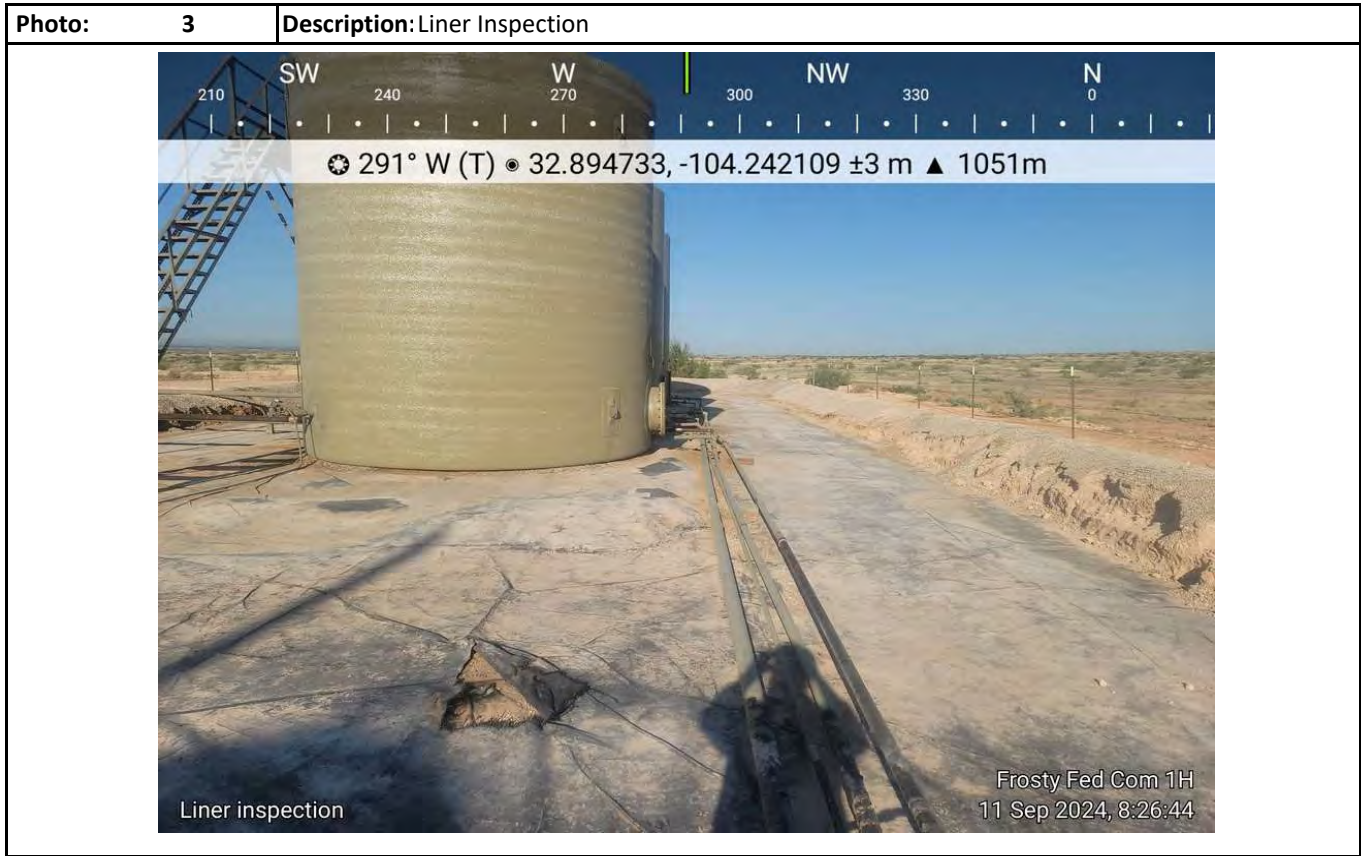
Created By	Condition	Condition Date
hungryhorse	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	10/24/2024

Attachment III Site Photographs

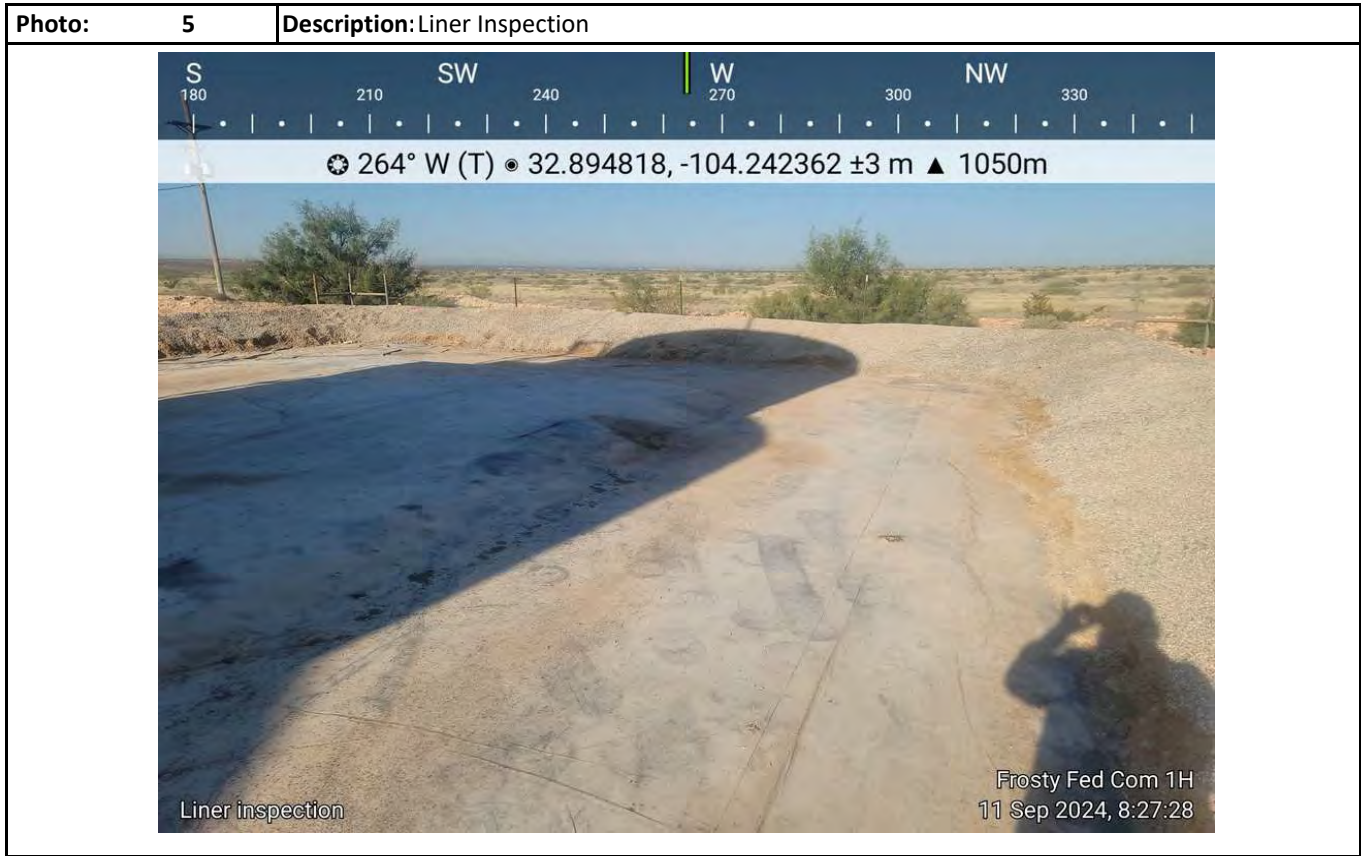
Photographs



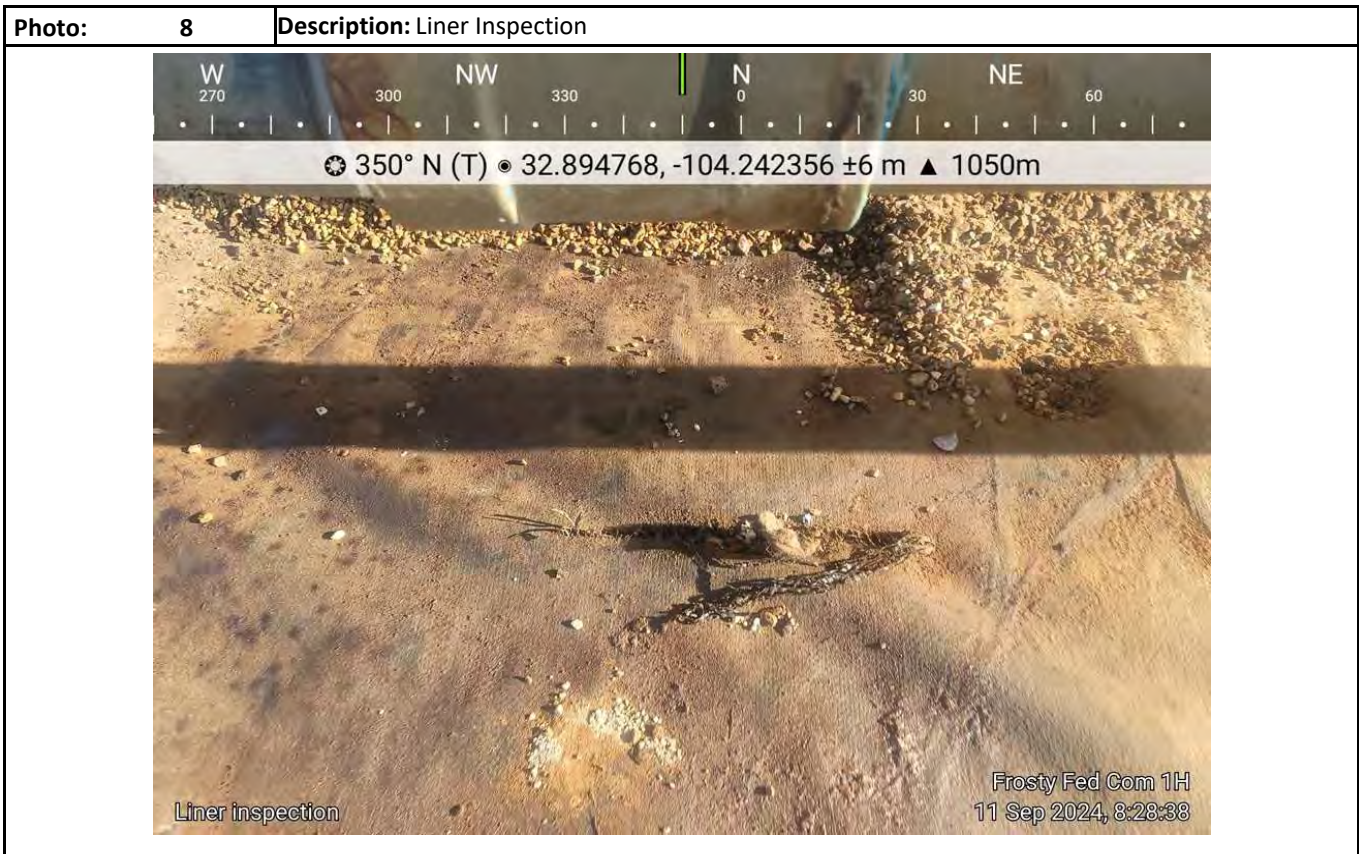
Photographs



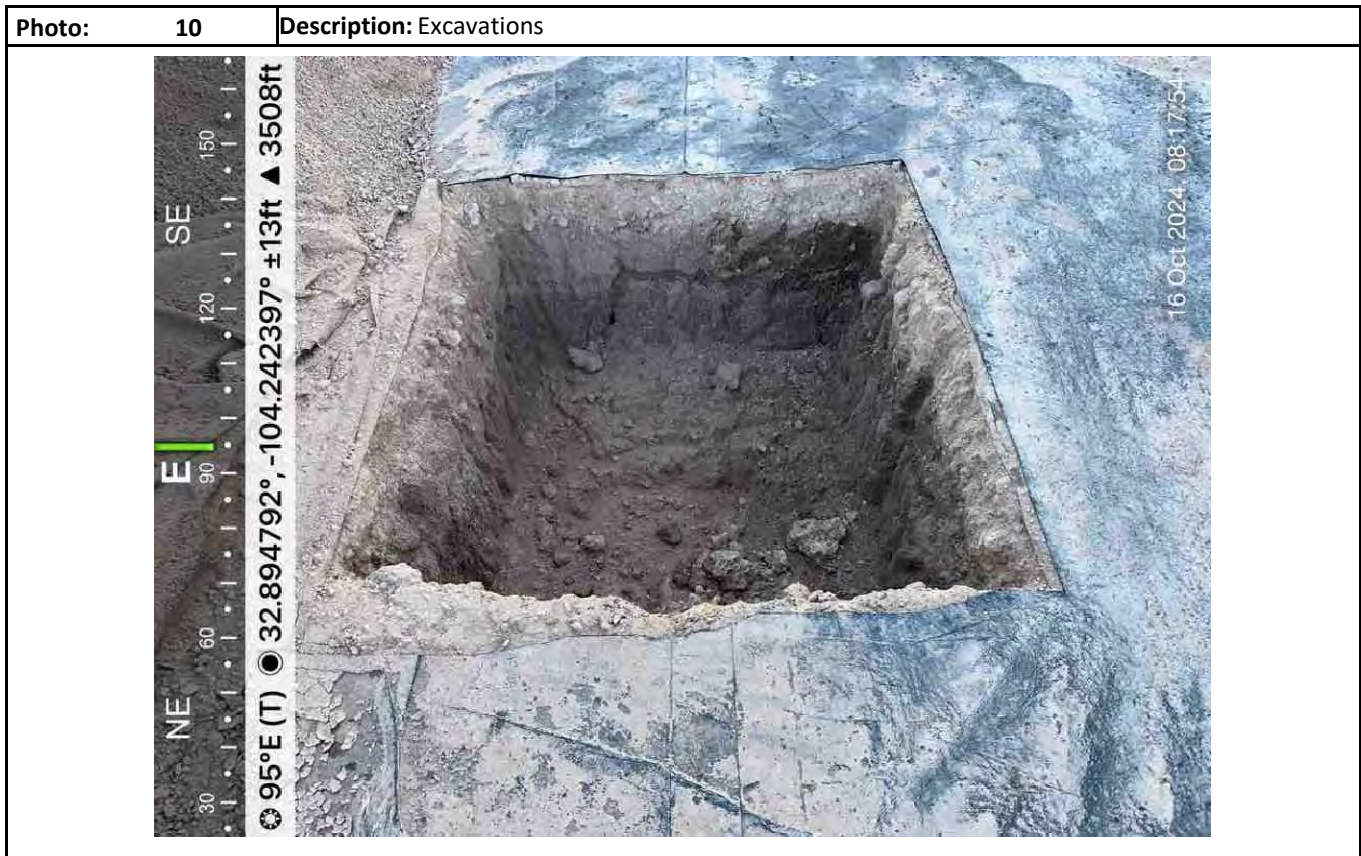
Photographs



Photographs



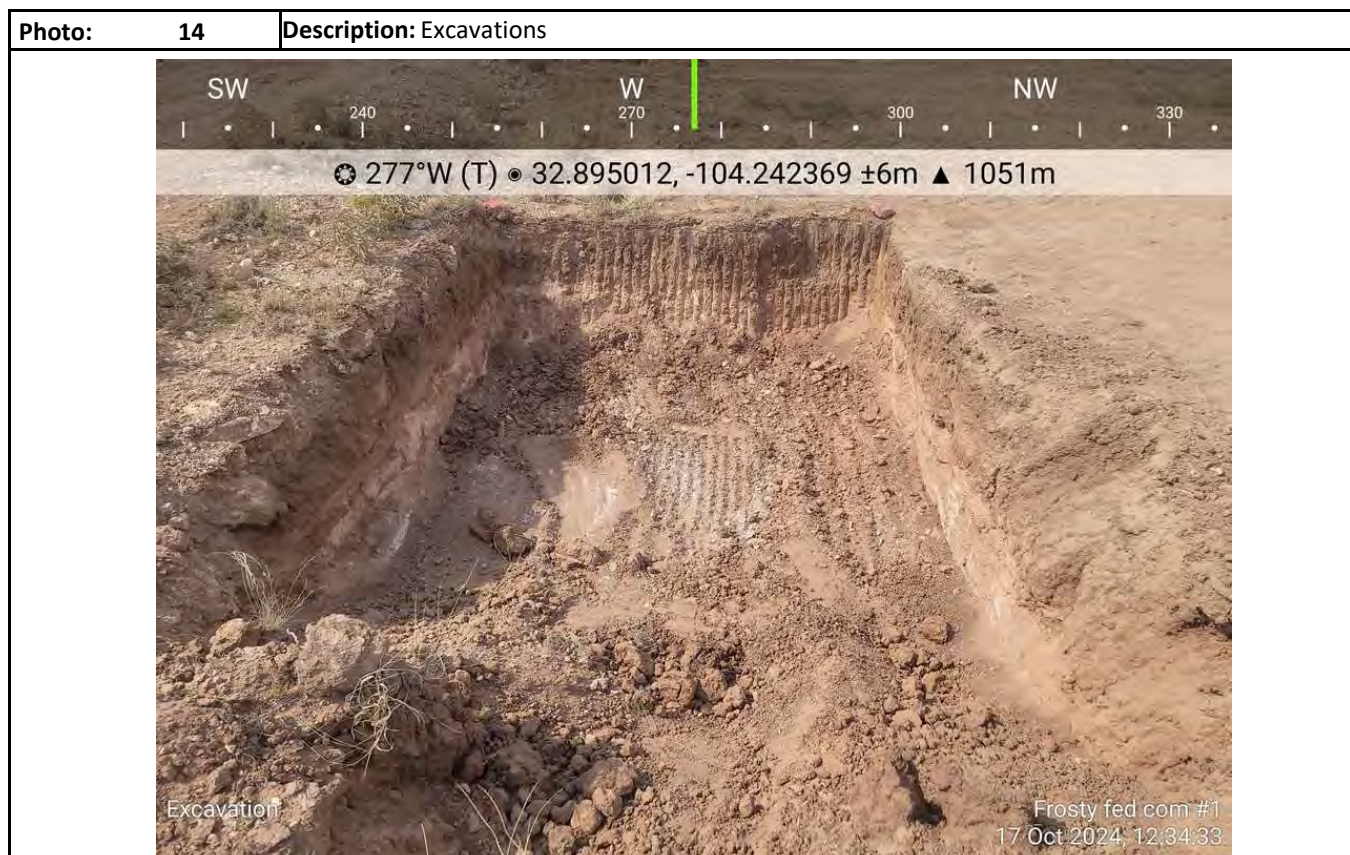
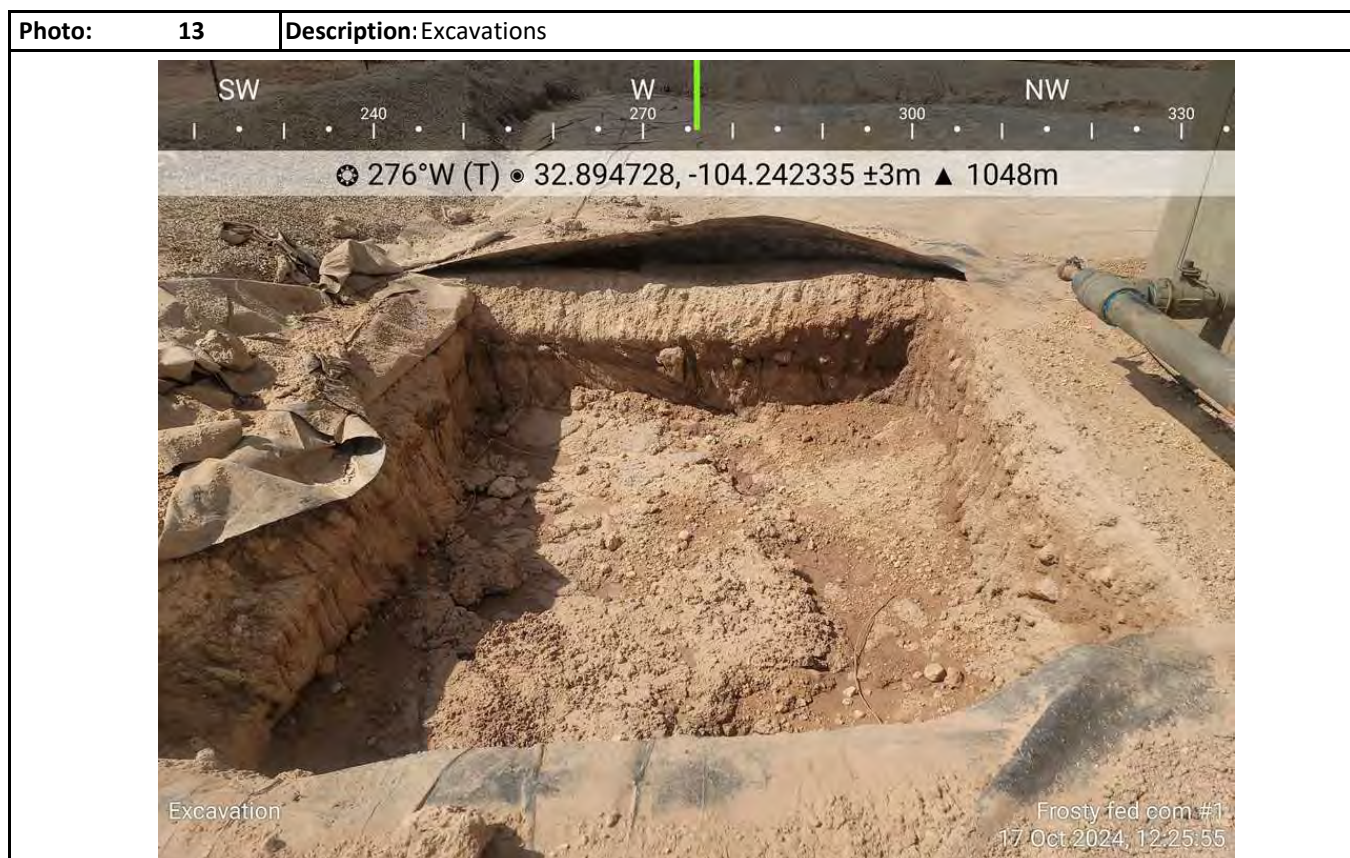
Photographs



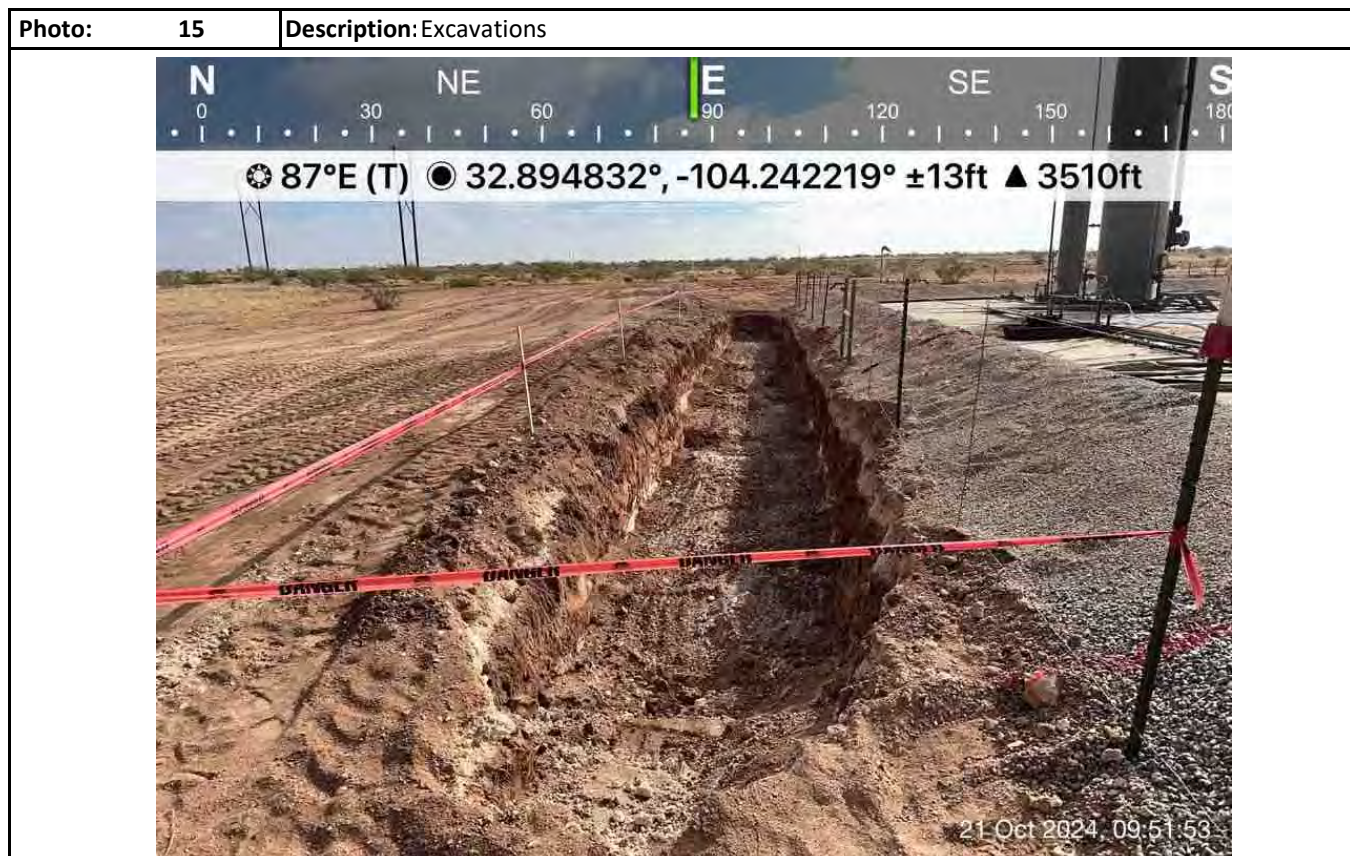
Photographs



Photographs



Photographs



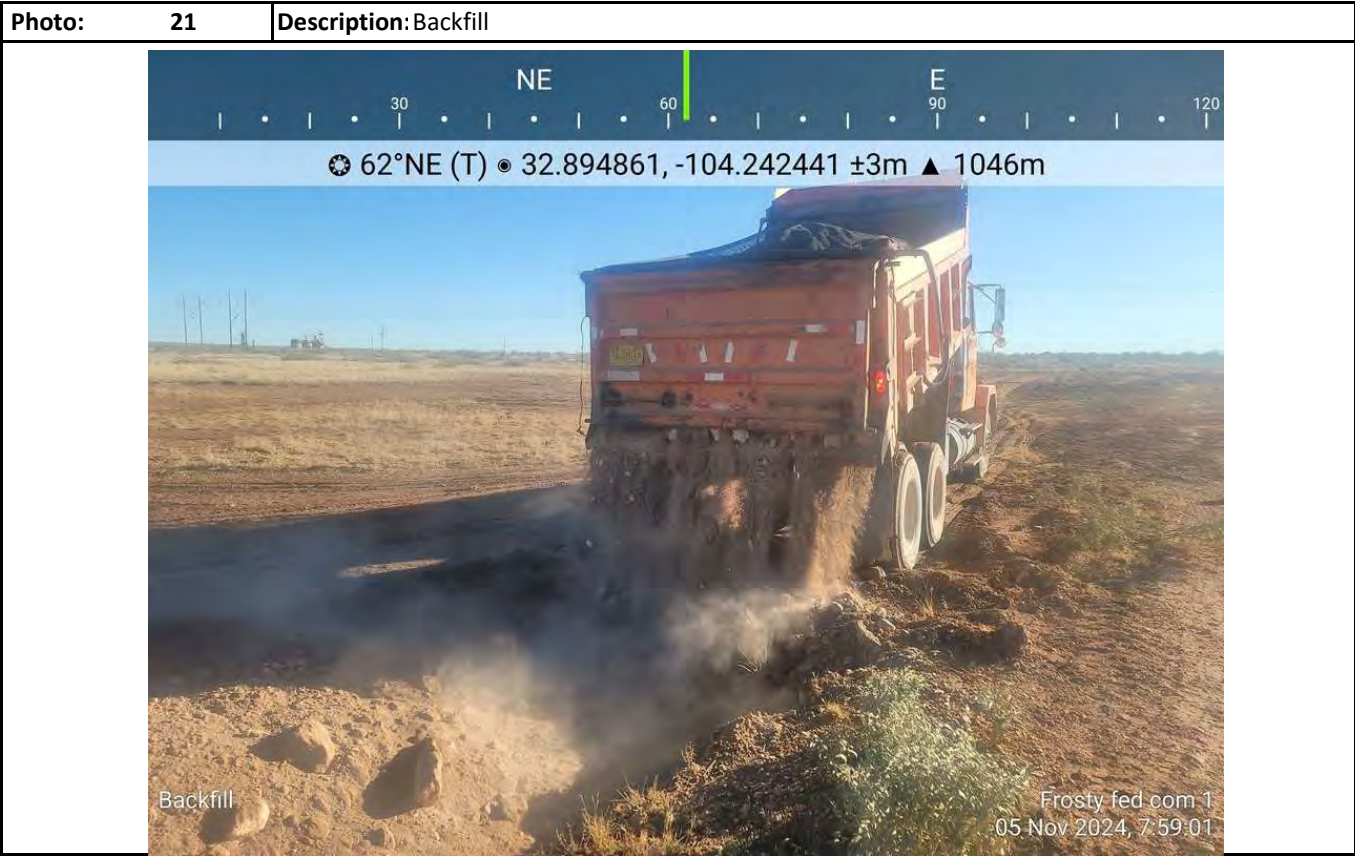
Photographs



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: 570862.00

Northing: 3639872.00

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.



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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Water Quality

Geographic Area:

United States

GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.

Water Quality Samples for the Nation

i Discrete water samples data are undergoing modernization with this page no longer being updated with the latest data starting March 11, 2024 with a full decommission expected 6 months later. [Learn more about the upcoming change](#) and where to find the new samples data in our blog.

USGS 325321104144201 16S.27E.26.432 HITCH 2

Available data for this site

Water-Quality: Field/Lab samples

GO

Eddy County, New Mexico

Latitude 32°53'21", Longitude 104°14'42" NAD27

Land-surface elevation 3,461 feet above NGVD29

Site Type: Well

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

Period of record

Begin Date	End Date	Samples
1960-04-26	1960-04-26	1

Choose Output Format

Retrieve Water-Quality Samples for Selected Sites

Choose one of the following options for displaying data for the sites meeting the criteria above

☐

[?](#)

Parameter Group Period of Record table

☐

[?](#)

Inventory of water-quality data

☐

[?](#)

Tab-separated inventory of water-quality data Save to file ▼ *

[?](#)

Retrieve data from: to: (YYYY-MM-DD -- **Blank = all data**)

[?](#)

Retrieve sample time and time zone ☒ as stored ☐ in UTC

[?](#)

Retrieve samples for specified parameter values: (Parameter Code)

Greater than ▼ (Numeric Value)

[?](#)

Samples and parameters to include:

- ☐ Samples that include only above parameter selection criteria (Count: 0)
- ☒ Samples that include above selection criteria and all associated parameters
- ☐ Samples that include above selection criteria plus one or more of these parameter codes separated by a comma (Limit: 200 codes).

[<--Find parameter codes](#)

- ☐ Samples that include above selection criteria plus one or more of these parameters in a file

Enter the full pathname of a file containing parameter codes. (Limit: 200 codes)

Choose File No file chosen

☐

[?](#)

Table of data Default attributes ▼

☐

[?](#)

Tab-separated data One sample per row with remark codes combined with values ▼ Default attributes ▼

YYYY-MM-DD ▼ Save to file ▼ *

* Save compressed files with a .gz file extension.

Submit

Reset

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Water Quality Samples -- 1 sites found

URL: <https://nwis.waterdata.usgs.gov/nwis/qwdata?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2024-11-21 16:45:30 EST

0.19 0.19 nadww02

Attachment V

Liner Inspection Report

Liner Inspection Form



Client Murchison Oil & Gas

Site Name Frosty Federal Com #1

Lat/Long 32.894739, -104.242337

Release Date 09-Jul-11

Incident Number nMLB1122439938

NMOCD Notified 09-Sep-24

Inspection Date 09/11/24

Observations	Yes	No	Comments
Is the liner present?	X		
Is the liner torn?	X		
Are there visible holes in the liner?	X		East side tank NW corner South of West tank
Is the liner retaining any liquids?		X	
Does it appear the liner had the ability to contain the leak?		X	

Type of liner:

Earthen with liner

Earthen no liner

Metal with Poly Lining

Metal with Spray Epoxy Lining

Other: _____

Other concerns or observations:

_____Inspector Name Roy Bell

Inspector Signature

A handwritten signature in blue ink, appearing to read "Roy Bell", is written over a horizontal line.

Attachment VI

Laboratory Analytical Reports



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

September 26, 2024

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: FROSTY FEDERAL COM #1

Enclosed are the results of analyses for samples received by the laboratory on 09/24/24 16:27.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2024	Sampling Date:	09/23/2024
Reported:	09/26/2024	Sampling Type:	Soil
Project Name:	FROSTY FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Tamara Oldaker
Project Location:	UL/ H SEC 26 T16S - R27E		

Sample ID: TT 1 - SURF (H245806-01)

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2024	ND	2.22	111	2.00	3.73	
Toluene*	<0.050	0.050	09/25/2024	ND	2.15	107	2.00	4.27	
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.19	110	2.00	4.49	
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.63	110	6.00	4.44	
Total BTX	<0.300	0.300	09/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	09/25/2024	ND	432	108	400	7.69	

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	09/25/2024	ND	200	100	200	2.46	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	189	94.4	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.3 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 1 - 1' (H245806-02)

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	09/25/2024	ND	2.22	111	2.00	3.73		
Toluene*	<0.050	0.050	09/25/2024	ND	2.15	107	2.00	4.27		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.19	110	2.00	4.49		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.63	110	6.00	4.44		
Total BTEX	<0.300	0.300	09/25/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/25/2024	ND	432	108	400	7.69		

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	09/25/2024	ND	200	100	200	2.46	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	189	94.4	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 102 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 1 - 2' (H245806-03)

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	09/25/2024	ND	2.22	111	2.00	3.73		
Toluene*	<0.050	0.050	09/25/2024	ND	2.15	107	2.00	4.27		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.19	110	2.00	4.49		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.63	110	6.00	4.44		
Total BTEX	<0.300	0.300	09/25/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/25/2024	ND	432	108	400	7.69		

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	09/25/2024	ND	200	100	200	2.46	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	189	94.4	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.4 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 1 - 3' (H245806-04)

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	09/25/2024	ND	2.22	111	2.00	3.73		
Toluene*	<0.050	0.050	09/25/2024	ND	2.15	107	2.00	4.27		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.19	110	2.00	4.49		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.63	110	6.00	4.44		
Total BTEX	<0.300	0.300	09/25/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/25/2024	ND	432	108	400	7.69		

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	09/25/2024	ND	200	100	200	2.46	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	189	94.4	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 1 - 4' (H245806-05)

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	09/25/2024	ND	2.22	111	2.00	3.73		
Toluene*	<0.050	0.050	09/25/2024	ND	2.15	107	2.00	4.27		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.19	110	2.00	4.49		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.63	110	6.00	4.44		
Total BTEX	<0.300	0.300	09/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	09/25/2024	ND	432	108	400	7.69		

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	09/25/2024	ND	200	100	200	2.46	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	189	94.4	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 2 - SURF (H245806-06)

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	09/25/2024	ND	2.22	111	2.00	3.73		
Toluene*	<0.050	0.050	09/25/2024	ND	2.15	107	2.00	4.27		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.19	110	2.00	4.49		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.63	110	6.00	4.44		
Total BTEX	<0.300	0.300	09/25/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/25/2024	ND	432	108	400	7.69		

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	09/25/2024	ND	200	100	200	2.46	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	189	94.4	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.3 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 2 - 1' (H245806-07)

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	09/25/2024	ND	2.22	111	2.00	3.73		
Toluene*	<0.050	0.050	09/25/2024	ND	2.15	107	2.00	4.27		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.19	110	2.00	4.49		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.63	110	6.00	4.44		
Total BTEx	<0.300	0.300	09/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	09/25/2024	ND	432	108	400	7.69		

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	09/25/2024	ND	200	100	200	2.46	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	189	94.4	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.8 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 2 - 2' (H245806-08)

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	09/25/2024	ND	2.22	111	2.00	3.73		
Toluene*	<0.050	0.050	09/25/2024	ND	2.15	107	2.00	4.27		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.19	110	2.00	4.49		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.63	110	6.00	4.44		
Total BTEX	<0.300	0.300	09/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	112	16.0	09/25/2024	ND	432	108	400	7.69		

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	09/25/2024	ND	200	100	200	2.46	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	189	94.4	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.3 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 2 - 3' (H245806-09)

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	09/25/2024	ND	2.22	111	2.00	3.73		
Toluene*	<0.050	0.050	09/25/2024	ND	2.15	107	2.00	4.27		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.19	110	2.00	4.49		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.63	110	6.00	4.44		
Total BTEx	<0.300	0.300	09/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	64.0	16.0	09/25/2024	ND	432	108	400	7.69		

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	09/25/2024	ND	200	100	200	2.46	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	189	94.4	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.9 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 2 - 4' (H245806-10)

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	09/25/2024	ND	2.22	111	2.00	3.73		
Toluene*	<0.050	0.050	09/25/2024	ND	2.15	107	2.00	4.27		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.19	110	2.00	4.49		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.63	110	6.00	4.44		
Total BTEx	<0.300	0.300	09/25/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/25/2024	ND	432	108	400	7.69		

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	09/25/2024	ND	200	100	200	2.46	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	189	94.4	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 3 - SURF (H245806-11)

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	09/25/2024	ND	2.22	111	2.00	3.73		
Toluene*	<0.050	0.050	09/25/2024	ND	2.15	107	2.00	4.27		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.19	110	2.00	4.49		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.63	110	6.00	4.44		
Total BTEX	<0.300	0.300	09/25/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/25/2024	ND	432	108	400	7.69		

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	09/25/2024	ND	200	100	200	2.46	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	189	94.4	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.3 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 3 - 1' (H245806-12)

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	09/25/2024	ND	2.22	111	2.00	3.73		
Toluene*	<0.050	0.050	09/25/2024	ND	2.15	107	2.00	4.27		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.19	110	2.00	4.49		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.63	110	6.00	4.44		
Total BTEX	<0.300	0.300	09/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	192	16.0	09/25/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	200	100	200	2.46	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	189	94.4	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 3 - 2' (H245806-13)

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	09/25/2024	ND	2.22	111	2.00	3.73		
Toluene*	<0.050	0.050	09/25/2024	ND	2.15	107	2.00	4.27		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.19	110	2.00	4.49		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.63	110	6.00	4.44		
Total BTEX	<0.300	0.300	09/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	09/25/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	200	100	200	2.46	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	189	94.4	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.2 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 3 - 3' (H245806-14)

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	09/25/2024	ND	2.22	111	2.00	3.73		
Toluene*	<0.050	0.050	09/25/2024	ND	2.15	107	2.00	4.27		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.19	110	2.00	4.49		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.63	110	6.00	4.44		
Total BTEx	<0.300	0.300	09/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	09/25/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	200	100	200	2.46	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	189	94.4	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 3 - 4' (H245806-15)

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	09/25/2024	ND	2.27	113	2.00	9.18	
Toluene*	<0.050	0.050	09/25/2024	ND	2.44	122	2.00	8.84	
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.64	132	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/25/2024	ND	8.17	136	6.00	12.0	
Total BTEX	<0.300	0.300	09/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	09/25/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	208	104	200	1.74	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	201	100	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 93.5 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 4 - SURF (H245806-16)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	2.27	113	2.00	9.18	QM-07	
Toluene*	<0.050	0.050	09/25/2024	ND	2.44	122	2.00	8.84		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.64	132	2.00	10.7		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	8.17	136	6.00	12.0		
Total BTX	<0.300	0.300	09/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 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	09/25/2024	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	208	104	200	1.74	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	201	100	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 4 - 1' (H245806-17)

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	09/25/2024	ND	2.27	113	2.00	9.18	
Toluene*	<0.050	0.050	09/25/2024	ND	2.44	122	2.00	8.84	
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.64	132	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/25/2024	ND	8.17	136	6.00	12.0	
Total BTEX	<0.300	0.300	09/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	09/25/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	208	104	200	1.74	
DRO >C10-C28*	1420	10.0	09/25/2024	ND	201	100	200	4.64	
EXT DRO >C28-C36	528	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 4 - 2' (H245806-18)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	2.27	113	2.00	9.18		
Toluene*	<0.050	0.050	09/25/2024	ND	2.44	122	2.00	8.84		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.64	132	2.00	10.7		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	8.17	136	6.00	12.0		
Total BTX	<0.300	0.300	09/25/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/25/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	208	104	200	1.74	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	201	100	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 4 - 3' (H245806-19)

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	09/25/2024	ND	2.27	113	2.00	9.18	
Toluene*	<0.050	0.050	09/25/2024	ND	2.44	122	2.00	8.84	
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.64	132	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/25/2024	ND	8.17	136	6.00	12.0	
Total BTEX	<0.300	0.300	09/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	09/25/2024	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	208	104	200	1.74	
DRO >C10-C28*	2280	10.0	09/25/2024	ND	201	100	200	4.64	
EXT DRO >C28-C36	823	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 4 - 4' (H245806-20)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	2.27	113	2.00	9.18		
Toluene*	<0.050	0.050	09/25/2024	ND	2.44	122	2.00	8.84		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.64	132	2.00	10.7		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	8.17	136	6.00	12.0		
Total BTX	<0.300	0.300	09/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/25/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	208	104	200	1.74	
DRO >C10-C28*	<10.0	10.0	09/25/2024	ND	201	100	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 5 - SURF (H245806-21)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2024	ND	2.27	113	2.00	9.18	
Toluene*	<0.050	0.050	09/25/2024	ND	2.44	122	2.00	8.84	
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.64	132	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/25/2024	ND	8.17	136	6.00	12.0	
Total BTX	<0.300	0.300	09/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	496	16.0	09/25/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	208	104	200	1.74	
DRO >C10-C28*	2210	10.0	09/25/2024	ND	201	100	200	4.64	
EXT DRO >C28-C36	729	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 75.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 5 - 1' (H245806-22)

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	09/25/2024	ND	2.27	113	2.00	9.18	
Toluene*	<0.050	0.050	09/25/2024	ND	2.44	122	2.00	8.84	
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.64	132	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/25/2024	ND	8.17	136	6.00	12.0	
Total BTEX	<0.300	0.300	09/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	528	16.0	09/25/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	208	104	200	1.74	
DRO >C10-C28*	1980	10.0	09/25/2024	ND	201	100	200	4.64	
EXT DRO >C28-C36	584	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 5 - 2' (H245806-23)

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	09/25/2024	ND	2.27	113	2.00	9.18	
Toluene*	<0.050	0.050	09/25/2024	ND	2.44	122	2.00	8.84	
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.64	132	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/25/2024	ND	8.17	136	6.00	12.0	
Total BTEX	<0.300	0.300	09/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	09/25/2024	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	208	104	200	1.74	
DRO >C10-C28*	703	10.0	09/25/2024	ND	201	100	200	4.64	
EXT DRO >C28-C36	197	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 5 - 3' (H245806-24)

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	09/25/2024	ND	2.27	113	2.00	9.18	
Toluene*	<0.050	0.050	09/25/2024	ND	2.44	122	2.00	8.84	
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.64	132	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/25/2024	ND	8.17	136	6.00	12.0	
Total BTEX	<0.300	0.300	09/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	09/25/2024	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	208	104	200	1.74	
DRO >C10-C28*	2700	10.0	09/25/2024	ND	201	100	200	4.64	
EXT DRO >C28-C36	927	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 5 - 4' (H245806-25)

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	09/25/2024	ND	2.27	113	2.00	9.18	
Toluene*	<0.050	0.050	09/25/2024	ND	2.44	122	2.00	8.84	
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.64	132	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/25/2024	ND	8.17	136	6.00	12.0	
Total BTEX	<0.300	0.300	09/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	09/25/2024	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	208	104	200	1.74	
DRO >C10-C28*	1940	10.0	09/25/2024	ND	201	100	200	4.64	
EXT DRO >C28-C36	674	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 6 - SURF (H245806-26)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2024	ND	2.27	113	2.00	9.18	
Toluene*	<0.050	0.050	09/25/2024	ND	2.44	122	2.00	8.84	
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.64	132	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/25/2024	ND	8.17	136	6.00	12.0	
Total BTX	<0.300	0.300	09/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	09/25/2024	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	208	104	200	1.74	
DRO >C10-C28*	2110	10.0	09/25/2024	ND	201	100	200	4.64	
EXT DRO >C28-C36	784	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 142 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 6 - 1' (H245806-27)

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	09/25/2024	ND	2.27	113	2.00	9.18	
Toluene*	<0.050	0.050	09/25/2024	ND	2.44	122	2.00	8.84	
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.64	132	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/25/2024	ND	8.17	136	6.00	12.0	
Total BTEX	<0.300	0.300	09/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	09/25/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	208	104	200	1.74	
DRO >C10-C28*	1690	10.0	09/25/2024	ND	201	100	200	4.64	
EXT DRO >C28-C36	519	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 6 - 2' (H245806-28)

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	09/25/2024	ND	2.27	113	2.00	9.18	
Toluene*	<0.050	0.050	09/25/2024	ND	2.44	122	2.00	8.84	
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.64	132	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/25/2024	ND	8.17	136	6.00	12.0	
Total BTEX	<0.300	0.300	09/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	320	16.0	09/25/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	208	104	200	1.74	
DRO >C10-C28*	2570	10.0	09/25/2024	ND	201	100	200	4.64	
EXT DRO >C28-C36	860	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 6 - 3' (H245806-29)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2024	ND	2.27	113	2.00	9.18	
Toluene*	<0.050	0.050	09/25/2024	ND	2.44	122	2.00	8.84	
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.64	132	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/25/2024	ND	8.17	136	6.00	12.0	
Total BTEx	<0.300	0.300	09/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	09/25/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	208	104	200	1.74	
DRO >C10-C28*	1640	10.0	09/25/2024	ND	201	100	200	4.64	
EXT DRO >C28-C36	595	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 6 - 4' (H245806-30)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	2.27	113	2.00	9.18		
Toluene*	<0.050	0.050	09/25/2024	ND	2.44	122	2.00	8.84		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.64	132	2.00	10.7		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	8.17	136	6.00	12.0		
Total BTEx	<0.300	0.300	09/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	368	16.0	09/25/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	208	104	200	1.74	
DRO >C10-C28*	1980	10.0	09/25/2024	ND	201	100	200	4.64	
EXT DRO >C28-C36	691	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 7 - SURF (H245806-31)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2024	ND	2.27	113	2.00	9.18	
Toluene*	<0.050	0.050	09/25/2024	ND	2.44	122	2.00	8.84	
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.64	132	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/25/2024	ND	8.17	136	6.00	12.0	
Total BTEX	<0.300	0.300	09/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	192	16.0	09/25/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	208	104	200	1.74	
DRO >C10-C28*	2630	10.0	09/25/2024	ND	201	100	200	4.64	
EXT DRO >C28-C36	961	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 147 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 7 - 1' (H245806-32)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2024	ND	2.27	113	2.00	9.18	
Toluene*	<0.050	0.050	09/25/2024	ND	2.44	122	2.00	8.84	
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.64	132	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/25/2024	ND	8.17	136	6.00	12.0	
Total BTEX	<0.300	0.300	09/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	464	16.0	09/25/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	208	104	200	1.74	
DRO >C10-C28*	1090	10.0	09/25/2024	ND	201	100	200	4.64	
EXT DRO >C28-C36	401	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 7 - 2' (H245806-33)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2024	ND	2.27	113	2.00	9.18	
Toluene*	<0.050	0.050	09/25/2024	ND	2.44	122	2.00	8.84	
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.64	132	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/25/2024	ND	8.17	136	6.00	12.0	
Total BTEX	<0.300	0.300	09/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	320	16.0	09/25/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	208	104	200	1.74	
DRO >C10-C28*	3060	10.0	09/25/2024	ND	201	100	200	4.64	
EXT DRO >C28-C36	1030	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 7 - 3' (H245806-34)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	2.27	113	2.00	9.18		
Toluene*	<0.050	0.050	09/25/2024	ND	2.44	122	2.00	8.84		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.64	132	2.00	10.7		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	8.17	136	6.00	12.0		
Total BTEX	<0.300	0.300	09/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	368	16.0	09/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	208	104	200	1.74	
DRO >C10-C28*	1970	10.0	09/25/2024	ND	201	100	200	4.64	
EXT DRO >C28-C36	700	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 7 - 4' (H245806-35)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	2.00	100	2.00	0.918		
Toluene*	<0.050	0.050	09/25/2024	ND	2.12	106	2.00	0.596		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.18	109	2.00	0.682		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.66	111	6.00	0.346		
Total BTEX	<0.300	0.300	09/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	320	16.0	09/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	210	105	200	0.344	
DRO >C10-C28*	2600	10.0	09/25/2024	ND	194	97.2	200	0.155	QM-07, QR-03
EXT DRO >C28-C36	965	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 75.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 8 - SURF (H245806-36)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	2.00	100	2.00	0.918		
Toluene*	<0.050	0.050	09/25/2024	ND	2.12	106	2.00	0.596		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.18	109	2.00	0.682		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.66	111	6.00	0.346		
Total BTEX	<0.300	0.300	09/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	400	16.0	09/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	210	105	200	0.344	
DRO >C10-C28*	2440	10.0	09/25/2024	ND	194	97.2	200	0.155	
EXT DRO >C28-C36	1030	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 8 - 1' (H245806-37)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	2.00	100	2.00	0.918		
Toluene*	<0.050	0.050	09/25/2024	ND	2.12	106	2.00	0.596		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.18	109	2.00	0.682		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.66	111	6.00	0.346		
Total BTEX	<0.300	0.300	09/25/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	09/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	210	105	200	0.344	
DRO >C10-C28*	2260	10.0	09/25/2024	ND	194	97.2	200	0.155	
EXT DRO >C28-C36	967	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 8 - 2' (H245806-38)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2024	ND	2.00	100	2.00	0.918	
Toluene*	<0.050	0.050	09/25/2024	ND	2.12	106	2.00	0.596	
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.18	109	2.00	0.682	
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.66	111	6.00	0.346	
Total BTEX	<0.300	0.300	09/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	368	16.0	09/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	210	105	200	0.344	
DRO >C10-C28*	2390	10.0	09/25/2024	ND	194	97.2	200	0.155	
EXT DRO >C28-C36	1070	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 8 - 3' (H245806-39)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	2.00	100	2.00	0.918		
Toluene*	<0.050	0.050	09/25/2024	ND	2.12	106	2.00	0.596		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.18	109	2.00	0.682		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.66	111	6.00	0.346		
Total BTEX	<0.300	0.300	09/25/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	09/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	210	105	200	0.344	
DRO >C10-C28*	1940	10.0	09/25/2024	ND	194	97.2	200	0.155	
EXT DRO >C28-C36	817	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 70.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 8 - 4' (H245806-40)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	2.00	100	2.00	0.918		
Toluene*	<0.050	0.050	09/25/2024	ND	2.12	106	2.00	0.596		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.18	109	2.00	0.682		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.66	111	6.00	0.346		
Total BTEX	<0.300	0.300	09/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	352	16.0	09/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	210	105	200	0.344	
DRO >C10-C28*	1700	10.0	09/25/2024	ND	194	97.2	200	0.155	
EXT DRO >C28-C36	707	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 9 - SURF (H245806-41)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	2.00	100	2.00	0.918		
Toluene*	<0.050	0.050	09/25/2024	ND	2.12	106	2.00	0.596		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.18	109	2.00	0.682		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.66	111	6.00	0.346		
Total BTEX	<0.300	0.300	09/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	416	16.0	09/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	210	105	200	0.344	
DRO >C10-C28*	1930	10.0	09/25/2024	ND	194	97.2	200	0.155	
EXT DRO >C28-C36	856	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 9 - 1' (H245806-42)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	2.00	100	2.00	0.918		
Toluene*	<0.050	0.050	09/25/2024	ND	2.12	106	2.00	0.596		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.18	109	2.00	0.682		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.66	111	6.00	0.346		
Total BTEX	<0.300	0.300	09/25/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	09/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	210	105	200	0.344	
DRO >C10-C28*	2260	10.0	09/25/2024	ND	194	97.2	200	0.155	
EXT DRO >C28-C36	939	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 75.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 9 - 2' (H245806-43)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	2.00	100	2.00	0.918		
Toluene*	<0.050	0.050	09/25/2024	ND	2.12	106	2.00	0.596		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.18	109	2.00	0.682		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.66	111	6.00	0.346		
Total BTEX	<0.300	0.300	09/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	384	16.0	09/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	210	105	200	0.344	
DRO >C10-C28*	2240	10.0	09/25/2024	ND	194	97.2	200	0.155	
EXT DRO >C28-C36	1020	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 9 - 3' (H245806-44)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	2.00	100	2.00	0.918		
Toluene*	<0.050	0.050	09/25/2024	ND	2.12	106	2.00	0.596		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.18	109	2.00	0.682		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.66	111	6.00	0.346		
Total BTEX	<0.300	0.300	09/25/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	09/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	210	105	200	0.344	
DRO >C10-C28*	2820	10.0	09/25/2024	ND	194	97.2	200	0.155	
EXT DRO >C28-C36	1180	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 9 - 4' (H245806-45)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	2.00	100	2.00	0.918		
Toluene*	<0.050	0.050	09/25/2024	ND	2.12	106	2.00	0.596		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.18	109	2.00	0.682		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.66	111	6.00	0.346		
Total BTEx	<0.300	0.300	09/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	416	16.0	09/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	210	105	200	0.344	
DRO >C10-C28*	2480	10.0	09/25/2024	ND	194	97.2	200	0.155	
EXT DRO >C28-C36	1040	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 10 - SURF (H245806-46)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	2.00	100	2.00	0.918		
Toluene*	<0.050	0.050	09/25/2024	ND	2.12	106	2.00	0.596		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.18	109	2.00	0.682		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.66	111	6.00	0.346		
Total BTEX	<0.300	0.300	09/25/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	210	105	200	0.344	
DRO >C10-C28*	223	10.0	09/25/2024	ND	194	97.2	200	0.155	
EXT DRO >C28-C36	130	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.5 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 11 - SURF (H245806-47)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	2.00	100	2.00	0.918		
Toluene*	<0.050	0.050	09/25/2024	ND	2.12	106	2.00	0.596		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.18	109	2.00	0.682		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.66	111	6.00	0.346		
Total BTEX	<0.300	0.300	09/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	09/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	210	105	200	0.344	
DRO >C10-C28*	301	10.0	09/25/2024	ND	194	97.2	200	0.155	
EXT DRO >C28-C36	150	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 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: 09/24/2024
 Reported: 09/26/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHISON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 12 - SURF (H245806-48)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2024	ND	2.00	100	2.00	0.918		
Toluene*	<0.050	0.050	09/25/2024	ND	2.12	106	2.00	0.596		
Ethylbenzene*	<0.050	0.050	09/25/2024	ND	2.18	109	2.00	0.682		
Total Xylenes*	<0.150	0.150	09/25/2024	ND	6.66	111	6.00	0.346		
Total BTEX	<0.300	0.300	09/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	09/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2024	ND	210	105	200	0.344	
DRO >C10-C28*	2740	10.0	09/25/2024	ND	194	97.2	200	0.155	
EXT DRO >C28-C36	1450	10.0	09/25/2024	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



BILL TO

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMF	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride	TPH	BTEX 8021
H458N																	
21	TT5-Surf	G	1		X					X			9/23/24		X	X	X
22	TT5-1'	G	1		X					X			9/23/24		X	X	X
23	TT5-2'	G	1		X					X			9/23/24		X	X	X
24	TT5-3'	G	1		X					X			9/23/24		X	X	X
25	TT5-4'	G	1		X					X			9/23/24		X	X	X
26	TT6-Surf	G	1		X					X			9/23/24		X	X	X
27	TT6-1'	G	1		X					X			9/23/24		X	X	X
28	TT6-2'	G	1		X					X			9/23/24		X	X	X
29	TT6-3'	G	1		X					X			9/23/24		X	X	X
30	TT6-4'	G	1		X					X			9/23/24		X	X	X

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gboans@jdmii.com

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+ 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	State: NM	Zip: 88230																						
Project #:	Project Owner: Murchison Oil & Gas	State: NM	Phone #: 575 706-0667	Fax #:																						
Project Name: Frosty Federal Com #1	Project Location: U/L H Sec 26 T16S - R27E																									
Sampler Name: Roy Bell																										
FOR LAB USE ONLY																										
Lab I.D. Sample I.D.	31 32 33 34 35 36 37 38 39 40	TT7-Surf TT7-1' TT7-2' TT7-3' TT7-4' TT8-Surf TT8-1' TT8-2' TT8-3' TT8-4'	G G G G G G G G G G	1 1 1 1 1 1 1 1 1 1	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME	Chloride	TPH	BTEX 8021										
							GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE															
							OTHER :	ACID/BASE:	ICE / COOL	OTHER :																

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Relinquished By: [Signature]	Date: 9/24/24	Received By: [Signature]	Date: 9/24/24
Relinquished By: [Signature]	Date: 10/03/24	Received By: [Signature]	Date: 10/03/24

Delivered By: (Circle One) CF-O.E.E. #140	Sample Condition Cool Intact	CHECKED BY: [Signature]
Sampler - UPS - Bus - Other: 2.5/1.9	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	(Initials)

REMARKS: 48 hr RUSH

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
Email results to: pm@hungry-horse.com gboans@idmii.com

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



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

October 07, 2024

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: FROSTY FEDERAL COM #1

Enclosed are the results of analyses for samples received by the laboratory on 10/03/24 14:47.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/03/2024	Sampling Date:	10/02/2024
Reported:	10/07/2024	Sampling Type:	Soil
Project Name:	FROSTY FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHINSON	Sample Received By:	Alyssa Parras
Project Location:	UL/ H SEC 26 T16S - R27E		

Sample ID: TT 5-6' (H246032-01)

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	10/04/2024	ND	2.22	111	2.00	0.00617	
Toluene*	<0.050	0.050	10/04/2024	ND	2.27	113	2.00	0.309	
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	2.28	114	2.00	1.10	
Total Xylenes*	<0.150	0.150	10/04/2024	ND	6.91	115	6.00	1.14	
Total BTEX	<0.300	0.300	10/04/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/04/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2024	ND	198	99.1	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/04/2024	ND	193	96.7	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 115 % 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: 10/03/2024
 Reported: 10/07/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHINSON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT 6-6' (H246032-02)

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	10/04/2024	ND	2.22	111	2.00	0.00617	
Toluene*	<0.050	0.050	10/04/2024	ND	2.27	113	2.00	0.309	
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	2.28	114	2.00	1.10	
Total Xylenes*	<0.150	0.150	10/04/2024	ND	6.91	115	6.00	1.14	
Total BTEX	<0.300	0.300	10/04/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/04/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2024	ND	198	99.1	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/04/2024	ND	193	96.7	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/03/2024
 Reported: 10/07/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHINSON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT 7-6' (H246032-03)

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	10/04/2024	ND	2.22	111	2.00	0.00617	
Toluene*	<0.050	0.050	10/04/2024	ND	2.27	113	2.00	0.309	
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	2.28	114	2.00	1.10	
Total Xylenes*	<0.150	0.150	10/04/2024	ND	6.91	115	6.00	1.14	
Total BTEX	<0.300	0.300	10/04/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/04/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2024	ND	198	99.1	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/04/2024	ND	193	96.7	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 108 % 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: 10/03/2024
 Reported: 10/07/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHINSON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT 8-6' (H246032-04)

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	10/04/2024	ND	2.22	111	2.00	0.00617	
Toluene*	<0.050	0.050	10/04/2024	ND	2.27	113	2.00	0.309	
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	2.28	114	2.00	1.10	
Total Xylenes*	<0.150	0.150	10/04/2024	ND	6.91	115	6.00	1.14	
Total BTEX	<0.300	0.300	10/04/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/04/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2024	ND	198	99.1	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/04/2024	ND	193	96.7	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 116 % 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: 10/03/2024
 Reported: 10/07/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHINSON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT 9-6' (H246032-05)

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	10/04/2024	ND	2.22	111	2.00	0.00617	
Toluene*	<0.050	0.050	10/04/2024	ND	2.27	113	2.00	0.309	
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	2.28	114	2.00	1.10	
Total Xylenes*	<0.150	0.150	10/04/2024	ND	6.91	115	6.00	1.14	
Total BTEX	<0.300	0.300	10/04/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/04/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2024	ND	198	99.1	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/04/2024	ND	193	96.7	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 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: 10/03/2024
 Reported: 10/07/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHINSON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP 10-2' (H246032-06)

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	10/04/2024	ND	2.22	111	2.00	0.00617	
Toluene*	<0.050	0.050	10/04/2024	ND	2.27	113	2.00	0.309	
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	2.28	114	2.00	1.10	
Total Xylenes*	<0.150	0.150	10/04/2024	ND	6.91	115	6.00	1.14	
Total BTEX	<0.300	0.300	10/04/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/04/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2024	ND	198	99.1	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/04/2024	ND	193	96.7	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 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: 10/03/2024
 Reported: 10/07/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHINSON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP 11-2' (H246032-07)

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	10/04/2024	ND	2.22	111	2.00	0.00617	
Toluene*	<0.050	0.050	10/04/2024	ND	2.27	113	2.00	0.309	
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	2.28	114	2.00	1.10	
Total Xylenes*	<0.150	0.150	10/04/2024	ND	6.91	115	6.00	1.14	
Total BTEX	<0.300	0.300	10/04/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/04/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2024	ND	198	99.1	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/04/2024	ND	193	96.7	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 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: 10/03/2024
 Reported: 10/07/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: MURCHINSON
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP 12-4' (H246032-08)

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	10/04/2024	ND	2.22	111	2.00	0.00617	
Toluene*	<0.050	0.050	10/04/2024	ND	2.27	113	2.00	0.309	
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	2.28	114	2.00	1.10	
Total Xylenes*	<0.150	0.150	10/04/2024	ND	6.91	115	6.00	1.14	
Total BTEX	<0.300	0.300	10/04/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/04/2024	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	10/04/2024	ND	198	99.1	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/04/2024	ND	193	96.7	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Caley D. Keene, Lab Director/Quality Manager



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

Page 11 of 11



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

October 31, 2024

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: FROSTY FEDERAL COM #1

Enclosed are the results of analyses for samples received by the laboratory on 10/29/24 16:10.

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: 10/29/2024
 Reported: 10/31/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: NONE GIVEN
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 1 5' (H246584-01)

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	10/30/2024	ND	2.00	100	2.00	4.73	
Toluene*	<0.050	0.050	10/30/2024	ND	2.12	106	2.00	5.86	
Ethylbenzene*	<0.050	0.050	10/30/2024	ND	2.23	112	2.00	7.05	
Total Xylenes*	<0.150	0.150	10/30/2024	ND	6.71	112	6.00	7.38	
Total BTEx	<0.300	0.300	10/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	10/30/2024	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	10/30/2024	ND	224	112	200	2.75	
DRO >C10-C28*	<10.0	10.0	10/30/2024	ND	224	112	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/29/2024
 Reported: 10/31/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: NONE GIVEN
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 2 5' (H246584-02)

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	10/30/2024	ND	2.00	100	2.00	4.73	
Toluene*	<0.050	0.050	10/30/2024	ND	2.12	106	2.00	5.86	
Ethylbenzene*	<0.050	0.050	10/30/2024	ND	2.23	112	2.00	7.05	
Total Xylenes*	<0.150	0.150	10/30/2024	ND	6.71	112	6.00	7.38	
Total BTEX	<0.300	0.300	10/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/30/2024	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	10/30/2024	ND	224	112	200	2.75	
DRO >C10-C28*	<10.0	10.0	10/30/2024	ND	224	112	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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: 10/29/2024
 Reported: 10/31/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: NONE GIVEN
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 3 2' (H246584-03)

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	10/30/2024	ND	2.00	100	2.00	4.73	
Toluene*	<0.050	0.050	10/30/2024	ND	2.12	106	2.00	5.86	
Ethylbenzene*	<0.050	0.050	10/30/2024	ND	2.23	112	2.00	7.05	
Total Xylenes*	<0.150	0.150	10/30/2024	ND	6.71	112	6.00	7.38	
Total BTEX	<0.300	0.300	10/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 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	10/30/2024	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	10/30/2024	ND	224	112	200	2.75	
DRO >C10-C28*	<10.0	10.0	10/30/2024	ND	224	112	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane 105 % 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: 10/29/2024
 Reported: 10/31/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: NONE GIVEN
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 4 4' (H246584-04)

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	10/30/2024	ND	2.00	100	2.00	4.73	
Toluene*	<0.050	0.050	10/30/2024	ND	2.12	106	2.00	5.86	
Ethylbenzene*	<0.050	0.050	10/30/2024	ND	2.23	112	2.00	7.05	
Total Xylenes*	<0.150	0.150	10/30/2024	ND	6.71	112	6.00	7.38	
Total BTEX	<0.300	0.300	10/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	10/30/2024	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	10/30/2024	ND	224	112	200	2.75	
DRO >C10-C28*	<10.0	10.0	10/30/2024	ND	224	112	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/29/2024
 Reported: 10/31/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: NONE GIVEN
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 5 2' (H246584-05)

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	10/30/2024	ND	2.00	100	2.00	4.73	
Toluene*	<0.050	0.050	10/30/2024	ND	2.12	106	2.00	5.86	
Ethylbenzene*	<0.050	0.050	10/30/2024	ND	2.23	112	2.00	7.05	
Total Xylenes*	<0.150	0.150	10/30/2024	ND	6.71	112	6.00	7.38	
Total BTEX	<0.300	0.300	10/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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	10/30/2024	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	10/30/2024	ND	224	112	200	2.75	
DRO >C10-C28*	<10.0	10.0	10/30/2024	ND	224	112	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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: 10/29/2024
 Reported: 10/31/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: NONE GIVEN
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 6 4' (H246584-06)

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	10/30/2024	ND	2.00	100	2.00	4.73	
Toluene*	<0.050	0.050	10/30/2024	ND	2.12	106	2.00	5.86	
Ethylbenzene*	<0.050	0.050	10/30/2024	ND	2.23	112	2.00	7.05	
Total Xylenes*	<0.150	0.150	10/30/2024	ND	6.71	112	6.00	7.38	
Total BTEX	<0.300	0.300	10/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	10/30/2024	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	10/30/2024	ND	224	112	200	2.75	
DRO >C10-C28*	<10.0	10.0	10/30/2024	ND	224	112	200	3.89	
EXT DRO >C28-C36	<10.0	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/29/2024
 Reported: 10/31/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: NONE GIVEN
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 7 5' (H246584-07)

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	10/30/2024	ND	2.00	100	2.00	4.73	
Toluene*	<0.050	0.050	10/30/2024	ND	2.12	106	2.00	5.86	
Ethylbenzene*	<0.050	0.050	10/30/2024	ND	2.23	112	2.00	7.05	
Total Xylenes*	<0.150	0.150	10/30/2024	ND	6.71	112	6.00	7.38	
Total BTEX	<0.300	0.300	10/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	10/30/2024	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	10/30/2024	ND	218	109	200	0.0878	
DRO >C10-C28*	<10.0	10.0	10/30/2024	ND	217	109	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 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: 10/29/2024
 Reported: 10/31/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: NONE GIVEN
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 8 5' (H246584-08)

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	10/30/2024	ND	2.00	100	2.00	4.73	
Toluene*	<0.050	0.050	10/30/2024	ND	2.12	106	2.00	5.86	
Ethylbenzene*	<0.050	0.050	10/30/2024	ND	2.23	112	2.00	7.05	
Total Xylenes*	<0.150	0.150	10/30/2024	ND	6.71	112	6.00	7.38	
Total BTEx	<0.300	0.300	10/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	10/30/2024	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	10/30/2024	ND	218	109	200	0.0878	
DRO >C10-C28*	<10.0	10.0	10/30/2024	ND	217	109	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 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: 10/29/2024
 Reported: 10/31/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: NONE GIVEN
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 9 5' (H246584-09)

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	10/30/2024	ND	2.17	109	2.00	1.62		
Toluene*	<0.050	0.050	10/30/2024	ND	2.10	105	2.00	1.98		
Ethylbenzene*	<0.050	0.050	10/30/2024	ND	2.12	106	2.00	2.23		
Total Xylenes*	<0.150	0.150	10/30/2024	ND	6.28	105	6.00	2.14		
Total BTEX	<0.300	0.300	10/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/30/2024	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	10/30/2024	ND	218	109	200	0.0878	
DRO >C10-C28*	<10.0	10.0	10/30/2024	ND	217	109	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 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: 10/29/2024
 Reported: 10/31/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: NONE GIVEN
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 10 5' (H246584-10)

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	10/30/2024	ND	2.17	109	2.00	1.62		
Toluene*	<0.050	0.050	10/30/2024	ND	2.10	105	2.00	1.98		
Ethylbenzene*	<0.050	0.050	10/30/2024	ND	2.12	106	2.00	2.23		
Total Xylenes*	<0.150	0.150	10/30/2024	ND	6.28	105	6.00	2.14		
Total BTEX	<0.300	0.300	10/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	10/30/2024	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	10/30/2024	ND	218	109	200	0.0878	
DRO >C10-C28*	<10.0	10.0	10/30/2024	ND	217	109	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 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: 10/29/2024
 Reported: 10/31/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: NONE GIVEN
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 1 0-5' (H246584-11)

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	10/30/2024	ND	2.17	109	2.00	1.62		
Toluene*	<0.050	0.050	10/30/2024	ND	2.10	105	2.00	1.98		
Ethylbenzene*	<0.050	0.050	10/30/2024	ND	2.12	106	2.00	2.23		
Total Xylenes*	<0.150	0.150	10/30/2024	ND	6.28	105	6.00	2.14		
Total BTEx	<0.300	0.300	10/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/30/2024	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	10/30/2024	ND	218	109	200	0.0878	
DRO >C10-C28*	<10.0	10.0	10/30/2024	ND	217	109	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 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: 10/29/2024
 Reported: 10/31/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: NONE GIVEN
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 2 0-5' (H246584-12)

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	10/30/2024	ND	2.17	109	2.00	1.62	
Toluene*	<0.050	0.050	10/30/2024	ND	2.10	105	2.00	1.98	
Ethylbenzene*	<0.050	0.050	10/30/2024	ND	2.12	106	2.00	2.23	
Total Xylenes*	<0.150	0.150	10/30/2024	ND	6.28	105	6.00	2.14	
Total BTEX	<0.300	0.300	10/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	10/30/2024	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	10/30/2024	ND	218	109	200	0.0878	
DRO >C10-C28*	<10.0	10.0	10/30/2024	ND	217	109	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 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: 10/29/2024
 Reported: 10/31/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: NONE GIVEN
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 3 0-5' (H246584-13)

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	10/30/2024	ND	2.17	109	2.00	1.62		
Toluene*	<0.050	0.050	10/30/2024	ND	2.10	105	2.00	1.98		
Ethylbenzene*	<0.050	0.050	10/30/2024	ND	2.12	106	2.00	2.23		
Total Xylenes*	<0.150	0.150	10/30/2024	ND	6.28	105	6.00	2.14		
Total BTEX	<0.300	0.300	10/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/30/2024	ND	218	109	200	0.0878	
DRO >C10-C28*	<10.0	10.0	10/30/2024	ND	217	109	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 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: 10/29/2024
 Reported: 10/31/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: NONE GIVEN
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 4 0-5' (H246584-14)

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	10/30/2024	ND	2.17	109	2.00	1.62		
Toluene*	<0.050	0.050	10/30/2024	ND	2.10	105	2.00	1.98		
Ethylbenzene*	<0.050	0.050	10/30/2024	ND	2.12	106	2.00	2.23		
Total Xylenes*	<0.150	0.150	10/30/2024	ND	6.28	105	6.00	2.14		
Total BTEX	<0.300	0.300	10/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/30/2024	ND	218	109	200	0.0878	
DRO >C10-C28*	<10.0	10.0	10/30/2024	ND	217	109	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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: 10/29/2024
 Reported: 10/31/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: NONE GIVEN
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 5 0-4' (H246584-15)

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	10/30/2024	ND	2.17	109	2.00	1.62		
Toluene*	<0.050	0.050	10/30/2024	ND	2.10	105	2.00	1.98		
Ethylbenzene*	<0.050	0.050	10/30/2024	ND	2.12	106	2.00	2.23		
Total Xylenes*	<0.150	0.150	10/30/2024	ND	6.28	105	6.00	2.14		
Total BTEX	<0.300	0.300	10/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/30/2024	ND	218	109	200	0.0878	
DRO >C10-C28*	<10.0	10.0	10/30/2024	ND	217	109	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 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: 10/29/2024
 Reported: 10/31/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: NONE GIVEN
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 6 0-4' (H246584-16)

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	10/30/2024	ND	2.17	109	2.00	1.62		
Toluene*	<0.050	0.050	10/30/2024	ND	2.10	105	2.00	1.98		
Ethylbenzene*	<0.050	0.050	10/30/2024	ND	2.12	106	2.00	2.23		
Total Xylenes*	<0.150	0.150	10/30/2024	ND	6.28	105	6.00	2.14		
Total BTEX	<0.300	0.300	10/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/30/2024	ND	218	109	200	0.0878	
DRO >C10-C28*	<10.0	10.0	10/30/2024	ND	217	109	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/29/2024
 Reported: 10/31/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: NONE GIVEN
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 7 0-4' (H246584-17)

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	10/30/2024	ND	2.17	109	2.00	1.62	
Toluene*	<0.050	0.050	10/30/2024	ND	2.10	105	2.00	1.98	
Ethylbenzene*	<0.050	0.050	10/30/2024	ND	2.12	106	2.00	2.23	
Total Xylenes*	<0.150	0.150	10/30/2024	ND	6.28	105	6.00	2.14	
Total BTEx	<0.300	0.300	10/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/30/2024	ND	218	109	200	0.0878	
DRO >C10-C28*	<10.0	10.0	10/30/2024	ND	217	109	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 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: 10/29/2024
 Reported: 10/31/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: NONE GIVEN
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 8 0-4' (H246584-18)

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	10/30/2024	ND	2.17	109	2.00	1.62	
Toluene*	<0.050	0.050	10/30/2024	ND	2.10	105	2.00	1.98	
Ethylbenzene*	<0.050	0.050	10/30/2024	ND	2.12	106	2.00	2.23	
Total Xylenes*	<0.150	0.150	10/30/2024	ND	6.28	105	6.00	2.14	
Total BTEX	<0.300	0.300	10/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/30/2024	ND	218	109	200	0.0878	
DRO >C10-C28*	<10.0	10.0	10/30/2024	ND	217	109	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/29/2024
 Reported: 10/31/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: NONE GIVEN
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 9 0-2' (H246584-19)

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	10/30/2024	ND	2.17	109	2.00	1.62		
Toluene*	<0.050	0.050	10/30/2024	ND	2.10	105	2.00	1.98		
Ethylbenzene*	<0.050	0.050	10/30/2024	ND	2.12	106	2.00	2.23		
Total Xylenes*	<0.150	0.150	10/30/2024	ND	6.28	105	6.00	2.14		
Total BTEx	<0.300	0.300	10/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/30/2024	ND	218	109	200	0.0878	
DRO >C10-C28*	<10.0	10.0	10/30/2024	ND	217	109	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane 114 % 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: 10/29/2024
 Reported: 10/31/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: NONE GIVEN
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 10 0-2' (H246584-20)

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	10/30/2024	ND	2.17	109	2.00	1.62		
Toluene*	<0.050	0.050	10/30/2024	ND	2.10	105	2.00	1.98		
Ethylbenzene*	<0.050	0.050	10/30/2024	ND	2.12	106	2.00	2.23		
Total Xylenes*	<0.150	0.150	10/30/2024	ND	6.28	105	6.00	2.14		
Total BTEX	<0.300	0.300	10/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/30/2024	ND	218	109	200	0.0878	
DRO >C10-C28*	<10.0	10.0	10/30/2024	ND	217	109	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/29/2024
 Reported: 10/31/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: NONE GIVEN
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 11 0-5' (H246584-21)

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	10/30/2024	ND	2.17	109	2.00	1.62		
Toluene*	<0.050	0.050	10/30/2024	ND	2.10	105	2.00	1.98		
Ethylbenzene*	<0.050	0.050	10/30/2024	ND	2.12	106	2.00	2.23		
Total Xylenes*	<0.150	0.150	10/30/2024	ND	6.28	105	6.00	2.14		
Total BTEX	<0.300	0.300	10/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/30/2024	ND	218	109	200	0.0878	
DRO >C10-C28*	<10.0	10.0	10/30/2024	ND	217	109	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/29/2024
 Reported: 10/31/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: NONE GIVEN
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 12 0-5' (H246584-22)

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	10/30/2024	ND	2.17	109	2.00	1.62		
Toluene*	<0.050	0.050	10/30/2024	ND	2.10	105	2.00	1.98		
Ethylbenzene*	<0.050	0.050	10/30/2024	ND	2.12	106	2.00	2.23		
Total Xylenes*	<0.150	0.150	10/30/2024	ND	6.28	105	6.00	2.14		
Total BTEX	<0.300	0.300	10/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/30/2024	ND	218	109	200	0.0878	
DRO >C10-C28*	<10.0	10.0	10/30/2024	ND	217	109	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/29/2024
 Reported: 10/31/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: NONE GIVEN
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 13 0-5' (H246584-23)

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	10/30/2024	ND	2.17	109	2.00	1.62		
Toluene*	<0.050	0.050	10/30/2024	ND	2.10	105	2.00	1.98		
Ethylbenzene*	<0.050	0.050	10/30/2024	ND	2.12	106	2.00	2.23		
Total Xylenes*	<0.150	0.150	10/30/2024	ND	6.28	105	6.00	2.14		
Total BTEX	<0.300	0.300	10/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/30/2024	ND	218	109	200	0.0878	
DRO >C10-C28*	<10.0	10.0	10/30/2024	ND	217	109	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 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: 10/29/2024
 Reported: 10/31/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: NONE GIVEN
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 14 0-5' (H246584-24)

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	10/30/2024	ND	2.17	109	2.00	1.62		
Toluene*	<0.050	0.050	10/30/2024	ND	2.10	105	2.00	1.98		
Ethylbenzene*	<0.050	0.050	10/30/2024	ND	2.12	106	2.00	2.23		
Total Xylenes*	<0.150	0.150	10/30/2024	ND	6.28	105	6.00	2.14		
Total BTEX	<0.300	0.300	10/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/30/2024	ND	218	109	200	0.0878	
DRO >C10-C28*	<10.0	10.0	10/30/2024	ND	217	109	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 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: 10/29/2024
 Reported: 10/31/2024
 Project Name: FROSTY FEDERAL COM #1
 Project Number: NONE GIVEN
 Project Location: UL/ H SEC 26 T16S - R27E

Sampling Date: 10/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 15 0-5' (H246584-25)

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	10/30/2024	ND	2.17	109	2.00	1.62		
Toluene*	<0.050	0.050	10/30/2024	ND	2.10	105	2.00	1.98		
Ethylbenzene*	<0.050	0.050	10/30/2024	ND	2.12	106	2.00	2.23		
Total Xylenes*	<0.150	0.150	10/30/2024	ND	6.28	105	6.00	2.14		
Total BTEx	<0.300	0.300	10/30/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/30/2024	ND	218	109	200	0.0878	
DRO >C10-C28*	<10.0	10.0	10/30/2024	ND	217	109	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/30/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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(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

Phone #: 575 393-3386

State: NM

Zip: 88260

Project #:

Fax #:

Project Owner: Ridge Runner Resources Operating, LLC

Project Name: Frosty Federal Com #1

Project Location: UL/H Sec 26 T16S - R27E

Sampler Name: Roy Bell

FOR LAB USE ONLY

BILL TO

P.O. #:

Company: Runner Resources Operating

Attn: Brad Grandstaff

Address: 5325 Sierra Vista

City: Carlsbad

State: NM

Zip: 88230

Phone #: 972-977-9221

Fax #:

ANALYSIS REQUEST

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

Chloride

TPH

BTEX 8021

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Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Received By:

Date:

Time:

Received By:

Date:

Time:

Received By:

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Received By:

Date:

Time:

Received By:

Date:

Time:

Received By:

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

2-30-00-00

1-70 #140

Sample Condition

Cool ☐ Intact ☐

Yes ☐ No ☐

Checked By:

(Initials)

SP

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

REMARKS:

48 hr RUSH

pm@hungry-horse.com

bgrandstaff@3roperating.com

48 hr RUSH

pm@hungry-horse.com

bgrandstaff@3roperating.com

48 hr RUSH

pm@hungry-horse.com

bgrandstaff@3roperating.com

48 hr RUSH

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48 hr RUSH

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bgrandstaff@3roperating.com

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Hungry Horse LLC		P.O. #:		BILL TO		ANALYSIS REQUEST									
Project Manager: Daniel Dominguez				Company: Runner Resources Operating											
Address: 4024 Plains Hwy				Attn: Brad Grandstaff											
City: Lovington	State: NM	Zip: 88260	Address: 5325 Sierra Vista												
Phone #: 575 393-3386	Fax #:	City: Carlsbad													
Project #:	Project Owner: Ridge Runner Resources Operating, LLC	State: NM		Zip: 88230											
Project Name: Frosty Federal Com #1	Project Location: UL/ H Sec 26 T16S - R27E	Phone #: 972-977-9221	Fax #:												
Sampler Name: Roy Bell															
FOR LAB USE ONLY															
Lab I.D.	Sample I.D.	Depth	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING					
					GROUNDWATER										
					WASTEWATER										
					SOIL										
					OIL										
					SLUDGE										
					OTHER :										
					ACID/BASE:										
					ICE / COOL										
					OTHER :										
					DATE	TIME	Chloride	TPH	BTEX 8021						
1	SW1	0-5	C	1	X	10/29/24	834	X	X						
13	SW2	0-5	C	1	X	10/29/24	837	X	X						
14	SW3	0-5	C	1	X	10/29/24	840	X	X						
15	SW4	0-5	C	1	X	10/29/24	843	X	X						
16	SW5	0-4	C	1	X	10/29/24	845	X	X						
17	SW6	0-4	C	1	X	10/29/24	850	X	X						
18	SW7	0-4	C	1	X	10/29/24	852	X	X						
19	SW8	0-4	C	1	X	10/29/24	855	X	X						
20	SW9	0-2	C	1	X	10/29/24	857	X	X						
21	SW10	0-2	C	1	X	10/29/24	900	X	X						
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.															
Relinquished By: [Signature]		Date: 10/29/24	Received By: [Signature]		Phone Result: [] Yes [] No		Add'l Phone #:								
Delivered By: (Circle One) 8328-0-10		Date: 10/29/24	Received By: [Signature]		Fax Result: [] Yes [] No		Add'l Fax #:								
Sampler - UPS - Bus - Other: 1-7c #140		Sample Condition: Cool Intact [] Yes [] No		CHECKED BY: [Signature]		REMARKS: 48 hr RUSH									
Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476		Email results to: pm@hungry-horse.com		bgrandstaff@3roperating.com											

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

QUESTIONS

Action 406607

QUESTIONS

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 406607
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nMLB1122439938
Incident Name	NMLB1122439938 FROSTY FEDERAL COM #1 @ 30-015-37003
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-37003] FROSTY FEDERAL COM #001

Location of Release Source

Please answer all the questions in this group.

Site Name	Frosty Federal Com #1
Date Release Discovered	07/11/2011
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

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

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

Crude Oil Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. Production Tank Crude Oil Released: 132 BBL Recovered: 90 BBL Lost: 42 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 406607

QUESTIONS (continued)

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 406607
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Bradley Wells Title: Enviro Manager Email: bwells@hungry-horse.com Date: 11/26/2024
--	--

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QUESTIONS, Page 3

Action 406607

QUESTIONS (continued)

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID:
	331569
	Action Number:
	406607
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)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (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	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	624
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	4190
GRO+DRO (EPA SW-846 Method 8015M)	3060
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	10/10/2024
On what date will (or did) the final sampling or liner inspection occur	10/29/2024
On what date will (or was) the remediation complete(d)	11/05/2024
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	300
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	300

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 406607

QUESTIONS (continued)

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 406607
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	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.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Bradley Wells Title: Enviro Manager Email: bwells@hungry-horse.com Date: 11/26/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 406607

QUESTIONS (continued)

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 406607
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 406607

QUESTIONS (continued)

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 406607
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	395562
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/29/2024
What was the (estimated) number of samples that were to be gathered	25
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	300
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.

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: 11/26/2024
--	--

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QUESTIONS, Page 7

Action 406607

QUESTIONS (continued)

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 406607
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 406607

CONDITIONS

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 406607
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation closure approved.	12/11/2024
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.	12/11/2024
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. The 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.	12/11/2024
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.	12/11/2024
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.	12/11/2024