



Volume Calculation

Location: ARU #4

Fluid: Oil

Area: 12,132 (ft²)

Depth: 2.78 (in)

Porosity/Saturation: 0.03 %

Volume of oil released: 10.5 bbls

Volume of water released: 4.5 bbls

Volume of oil recovered: 0 bbls

Volume of water recovered: 0 bbls

Volume of liquid remaining in soil: 15.0 bbls

Volume recovered: 0 bbls

Total Volume: 15.0 bbls



Remediation Summary and Closure Request

Grand Banks Energy Co.

ARU #4

Lea County, New Mexico

Unit Letter "B", Section 11, Township 16 South, Range 32 East

Latitude 32.940186 North, Longitude 103.736002 West

NMOCD Incident # nAPP2329041834

Prepared For:

Grand Banks Energy Co.

PO Box 272

Midland, TX 79702

Prepared By:

Hungry Horse, LLC

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January 2024

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HUNGRY HORSE, LLC

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

Background:

The site is located in Unit Letter B (NW/NE), Section 11, Township 16 South, Range 32 East, approximately six miles northeast of Maljamar, in Lea County, New Mexico. The site is located on New Mexico State Trust Land. Topographic Map, OSE POD Locations Map, and USGS Well Locations Map are included as Figure 1, Figure 2, and Figure 3, respectively.

The release occurred on an active pipeline; Latitude 32.940186 North, Longitude 103.736002 West. The Initial NMOCD Form C-141 indicated that on October 11, 2023 approximately 10.5 bbls of crude oil and 4.5 bbls of produced water were released caused by a poly flowline struck by lightning. A crew was dispatched to the release site and the line was repaired. No fluid was recovered. Previously submitted pages of the NMOCD Form C-141 are available on the NMOCD Imaging System. NMOCD Form Initial C-141 is also included as Attachment VIII.

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 Karst designated area. Depth to groundwater information is provided as Attachment IV and the results are depicted on Figures 2 & 3.

Six water wells were located within a half mile of the release area, with depth to groundwater ranging from two hundred twenty to two hundred seventy-five feet bgs. However, as the site is located within a Karst designated area, the release area was delineated and further 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
>100'	Chloride	EPA 300.0 or SM4500 CLB	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg
	GRO + DRO	EPA SW-846 Method 8015M Ext	N/A
	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 type in the area of reclamation. Web Soil Survey indicates the area is located in the Kimbrough gravelly loam complex comprised of gravelly loam soils with 0 to 3 percent slopes. NMSLO Coarse sites seed mixture will be utilized for seeding the area after reclamation activities are complete. Karst, Wetland, and Soil Maps are provided as Attachment I.



Delineation and Remediation Activities:

On October 16 and 23, 2023, Hungry Horse conducted an initial site assessment consisting of photographing and mapping the release area, and a series of sampling events. During the sampling events, hand augered soil bores were advanced within the release area in an effort to determine the vertical extent of contamination. These sample locations are identified by SP designation. In addition, hand augered soil bores were advanced along the outside edges of the release area in an effort to determine the horizontal extent of contamination. These sample locations are identified by HZ designation. During the advancement of the soil bores, soil samples were collected and field screened for the presence of chloride concentrations utilizing a Hach Quantab® chloride test kit.

Based on field observations and field test data noted above and provided in Attachment V, eighteen representative soil samples, two from each sample location, were selected for laboratory analysis. Delineation soil samples SP1 through SP5, HZ1 through HZ4, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples, with the exception of SP1, SP2, SP3, SP5, each at Surface, and HZ1 at Surface and one-foot bgs, which exhibited TPH and/or chloride concentrations in excess of the NMOCD Closure Criteria.

From October 30 through November 9, 2023, the release area was excavated to approximately two feet bgs. Soil impacted above the NMOCD Closure Criteria was excavated and temporarily stockpiled on site, atop plastic, before transport to an NMOCD approved disposal facility.

On November 14, 2023, seventy-seven composite confirmation soil samples were collected from the excavation floor and sidewalls, every 200 square feet and every 50 linear feet, respectively. Soil samples FL1 through FL61 and SW1 through SW16, 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 FL5 - FL8, FL11 - FL18, FL30 - FL34, FL36 - FL40, and FL46 - FL48 at two feet bgs, which exhibited TPH concentrations in excess of the NMOCD Closure Criteria.

On December 14, 2023, the areas in excess of NMOCD Closure Criteria were excavated an additional half foot bgs and resampled. Soil samples FL5B - FL8B, FL11B - FL18B, FL30B - FL34B, FL36B - FL40B, and FL46B - FL48B, each at two and half feet bgs, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples.

The excavated area measured approximately twelve thousand two hundred square feet, and ranged from two to two and half feet in depth. During remediation activities approximately



1,000 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.

Restoration, Reclamation, and Re-Vegetation:

Based upon laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally sourced, clean, non-impacted topsoil. The affected area was contoured and/or compacted to achieve erosion control, surface stability, and preserve surface water flow.

The affected area will be scarified to aid with infiltration, overall success of seed germination, and plant establishment. The affected area will then be seeded, via hand broadcast at double the recommended rate, with an NMSLO approved seed mixture, free of noxious weeds, during the first favorable growing season following these completed remediation activities. Site will also be monitored for growth and noxious weed management on a semi-annual basis until desired vegetation is achieved. NMSLO approved seed mix is provided as Attachment VII.

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, Grand Banks Energy Co. respectfully requests closure of the ARU #4 location, nAPP2329041834.

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:

Grand Banks Energy Co

PO Box 272
Midland, TX 79702

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2
811 S. First St.
Artesia, NM 88210

New Mexico State Land Office

914 N. Linam St.
Hobbs, NM 88240

Figures

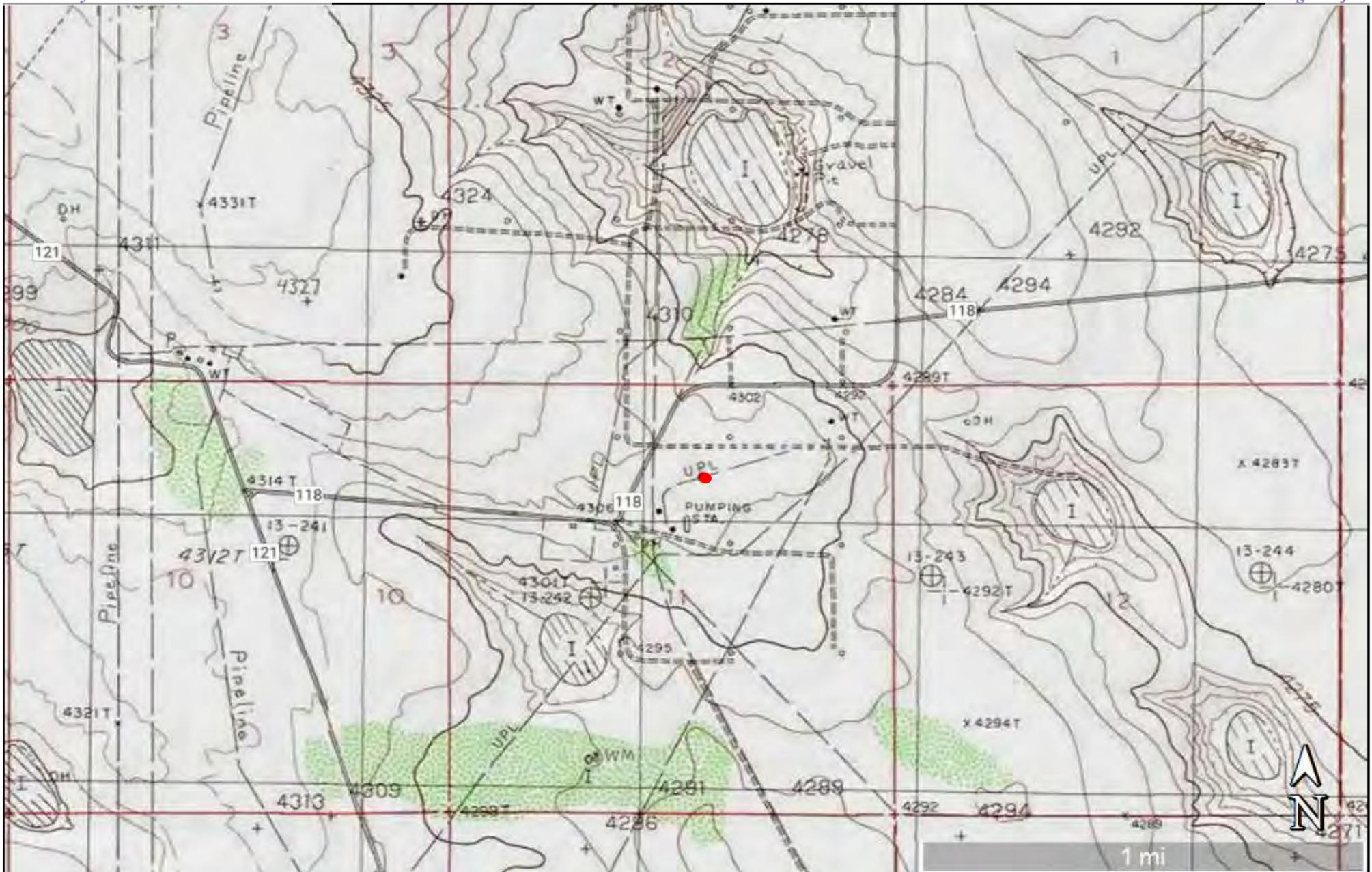


Figure 1

Topographic Map
 Grand Banks Energy Co
 ARU #4
 GPS: 32.940186, -103.736002
 Lea County

Legend:

- ARU #4 Location

Drafted: bw
 Checked: dd
 Date: 10/13/23





Figure 2

OSE POD Locations Map
 Grand Banks Energy Co
 ARU #4
 GPS: 32.940186, -103.736002
 Lea County

Legend:

- ARU #4 Location
- Active OSE Water Well



Drafted: bw
 Checked: dd
 Date: 10/13/23



Figure 3

USGS Well Locations Map
 Grand Banks Energy Co
 ARU #4
 GPS: 32.940186, -103.736002
 Lea County

Legend:

- ARU #4 Location
- USGS Well Location

Drafted: bw
 Checked: dd
 Date: 10/13/23





Figure 4

Delineation Sample Map
 Grand Banks Energy Co
 ARU #4
 GPS: 32.940186, -103.736002
 Lea County

Legend:

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

Drafted: bw
 Checked: dd
 Date: 10/23/23





Figure 5
 Excavation Sample Map
 Grand Banks Energy Co
 ARU #4
 GPS: 32.940186, -103.736002
 Lea County

- Legend:**
- Excavated Area
 - FL1 Composite Confirmation Sample Location
 - SW1 Sidewall Confirmation Sample Location

Drafted: dd
 Checked: bw
 Date: 12/14/23



Table

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
Grand Banks Energy Co
ARU #4
NMOCD Ref. #: nAPP2329041834

Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SP1	10/16/23	Surf	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,400
	10/23/23	2	Excavated	<0.050	<0.300	26.3	421	447	52.8	500.1	656
SP2	10/16/23	Surf	Excavated	<0.050	<0.300	<10.0	716	716	451	1,167	24,000
	10/23/23	2	Excavated	<0.050	<0.300	<10.0	40.5	40.5	<10.0	40.5	864
SP3	10/16/23	Surf	Excavated	<0.050	<0.300	<10.0	190	190	131	321	41,200
	10/23/23	2	Excavated	<0.050	<0.300	<10.0	47.4	47.4	<10.0	47.4	112
SP4	10/16/23	Surf	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	10/23/23	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SP5	10/16/23	Surf	Excavated	<0.050	<0.300	<10.0	617	617	448	1,065	64.0
	10/23/23	2	Excavated	<0.050	<0.300	<10.0	131	131	14.7	145.7	144
HZ1	10/16/23	Surf	Excavated	<0.050	<0.300	<10.0	1,660	1,660	1,080	2,740	16.0
	10/16/23	1	Excavated	<0.050	<0.300	<10.0	193	193	109	302	16.0
HZ1b	11/14/23	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	11/14/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
HZ2	10/16/23	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	10/16/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
HZ3	10/16/23	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	10/16/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
HZ4	10/16/23	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	10/16/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NMOCD Closure Criteria				10	50	-	-	NA	-	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
Grand Banks Energy Co
ARU #4
NMOCD Ref. #: nAPP2329041834

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	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL2	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	40.8	40.8	11.6	52.4	<16.0
FL3	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	54.3	54.3	15.1	69.4	<16.0
FL4	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	55.0	55.0	13.6	68.6	<16.0
FL5	11/14/23	2	Excavated	<0.050	<0.300	<10.0	96.6	96.6	24.0	120.6	<16.0
FL5B	12/14/23	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL6	11/14/23	2	Excavated	<0.050	<0.300	<10.0	98.0	98.0	24.8	122.8	<16.0
FL6B	12/14/23	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL7	11/14/23	2	Excavated	<0.050	<0.300	<10.0	92.0	92.0	27.2	119.2	<16.0
FL7B	12/14/23	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL8	11/14/23	2	Excavated	<0.050	<0.300	<10.0	93.9	93.9	24.7	118.6	<16.0
FL8B	12/14/23	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL9	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	52.4	52.4	16.9	69.3	<16.0
FL10	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	31.1	31.1	<10.0	31.1	<16.0
FL11	11/14/23	2	Excavated	<0.050	<0.300	<10.0	271	271	64.9	335.9	112
FL11B	12/14/23	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL12	11/14/23	2	Excavated	<0.050	<0.300	<10.0	183	183	42.9	225.9	112
FL12B	12/14/23	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL13	11/14/23	2	Excavated	<0.050	<0.300	<10.0	286	286	47.4	333.4	96.0
FL13B	12/14/23	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL14	11/14/23	2	Excavated	<0.050	<0.300	<10.0	456	456	74.3	530.3	144
FL14B	12/14/23	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL15	11/14/23	2	Excavated	<0.050	<0.300	<10.0	429	429	87.9	516.9	176
FL15B	12/14/23	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL16	11/14/23	2	Excavated	<0.050	<0.300	<10.0	242	242	35.5	277.5	160
FL16B	12/14/23	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL17	11/14/23	2	Excavated	<0.050	<0.300	<10.0	483	483	73.6	556.6	176
FL17B	12/14/23	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL18	11/14/23	2	Excavated	<0.050	<0.300	<10.0	314	314	42.3	356.3	208
FL18B	12/14/23	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL19	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL20	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	38.4	38.4	<10.0	38.4	32.0
FL21	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL22	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	13.2	<20.0	<10.0	<30.0	48.0
FL23	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL24	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	44.8	44.8	<10.0	44.8	32.0
FL25	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	31.7	31.7	<10.0	31.7	16.0
FL26	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	23.7	23.7	<10.0	<30.0	48.0
FL27	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	14.9	<20.0	<10.0	<30.0	48.0
FL28	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	13.9	<20.0	<10.0	<30.0	48.0
NMOCD Closure Criteria				10	50	-	-	NA	-	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
Grand Banks Energy Co
ARU #4
NMOCD Ref. #: nAPP2329041834

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)
FL29	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	18.7	<20.0	<10.0	<30.0	32.0
FL30	11/14/23	2	Excavated	<0.050	<0.300	<10.0	127	127	21.8	148.8	32.0
FL30B	12/14/23	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL31	11/14/23	2	Excavated	<0.050	<0.300	<10.0	150	150	42.6	192.6	32.0
FL31B	12/14/23	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL32	11/14/23	2	Excavated	<0.050	<0.300	<10.0	133	133	38.0	171.0	16.0
FL32B	12/14/23	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL33	11/14/23	2	Excavated	<0.050	<0.300	<10.0	214	214	60.5	274.5	48.0
FL33B	12/14/23	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL34	11/14/23	2	Excavated	<0.050	<0.300	<10.0	81.3	81.3	27.9	109.2	32.0
FL34B	12/14/23	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL35	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	61.1	61.1	18.7	79.8	<16.0
FL36	11/14/23	2	Excavated	<0.050	<0.300	<10.0	142	142	37.7	179.7	16.0
FL36B	12/14/23	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL37	11/14/23	2	Excavated	<0.050	<0.300	<10.0	98.5	98.5	29.6	128.1	16.0
FL37B	12/14/23	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL38	11/14/23	2	Excavated	<0.050	<0.300	<10.0	95.9	95.9	29.4	125.3	32.0
FL38B	12/14/23	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL39	11/14/23	2	Excavated	<0.050	<0.300	<10.0	117	117	34.1	151.1	16.0
FL39B	12/14/23	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL40	11/14/23	2	Excavated	<0.050	<0.300	<10.0	128	128	37.4	165.4	32.0
FL40B	12/14/23	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL41	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	62.0	62.0	23.6	85.6	16.0
FL42	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	62.4	62.4	19.6	82.0	16.0
FL43	11/14/23	2	In-Situ	<0.050	<0.300	26.3	71.6	71.6	24.4	96.0	32.0
FL44	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	44.1	44.1	16.0	60.1	<16.0
FL45	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	51.7	51.7	17.5	69.2	16.0
FL46	11/14/23	2	Excavated	<0.050	<0.300	<10.0	88.9	88.9	28.5	117.4	32.0
FL46B	12/14/23	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL47	11/14/23	2	Excavated	<0.050	<0.300	<10.0	82.7	82.7	26.2	108.9	16.0
FL47B	12/14/23	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL48	11/14/23	2	Excavated	<0.050	<0.300	<10.0	86.1	86.1	27.1	113.2	32.0
FL48B	12/14/23	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL49	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	62.6	62.6	20.6	83.2	16.0
FL50	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL51	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL52	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL53	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL54	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL55	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NMOCD Closure Criteria				10	50	-	-	NA	-	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
Grand Banks Energy Co
ARU #4
NMOCD Ref. #: nAPP2329041834

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)
FL56	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL57	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL58	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	34.2	34.2	<10.0	34.2	32.0
FL59	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL60	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL61	11/14/23	2	In-Situ	<0.050	<0.300	<10.0	67.8	67.8	<10.0	67.8	32.0
SW1	11/14/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW2	11/14/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW3	11/14/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW4	11/14/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW5	11/14/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW6	11/14/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW7	11/14/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW8	11/14/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW9	11/14/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW10	11/14/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW11	11/14/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW12	11/14/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW13	11/14/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW14	11/14/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW15	11/14/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW16	11/14/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NMOCD Closure Criteria				10	50	-	-	NA	-	100	600

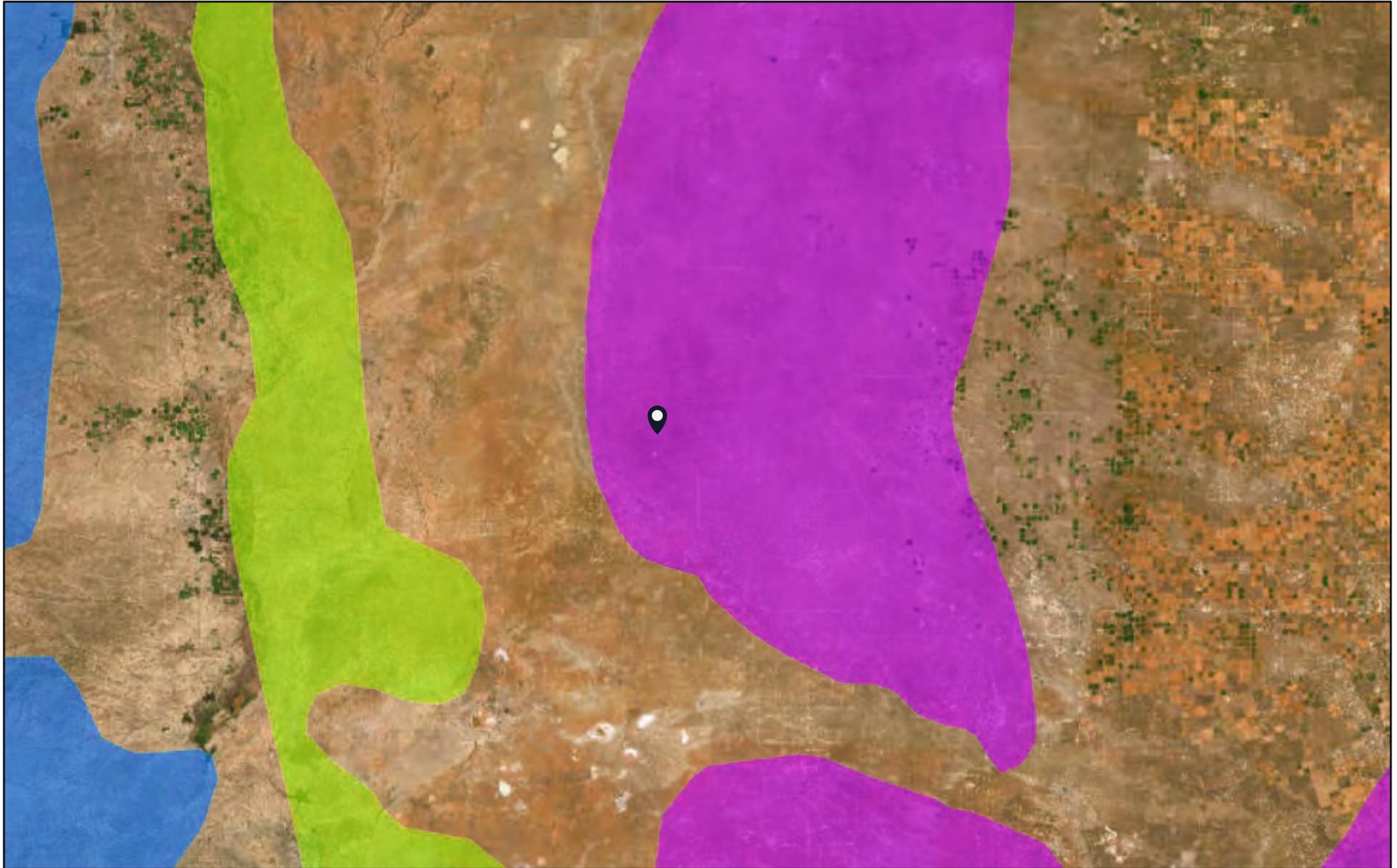
NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Attachment I
Karst, Wetland, and Soil Maps

ARU #4



1/8/2024

Karst Type

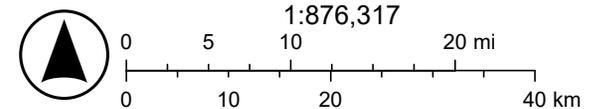
- Carbonate
- Erosional
- Gypsum

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

High Resolution 30cm Imagery

Citations

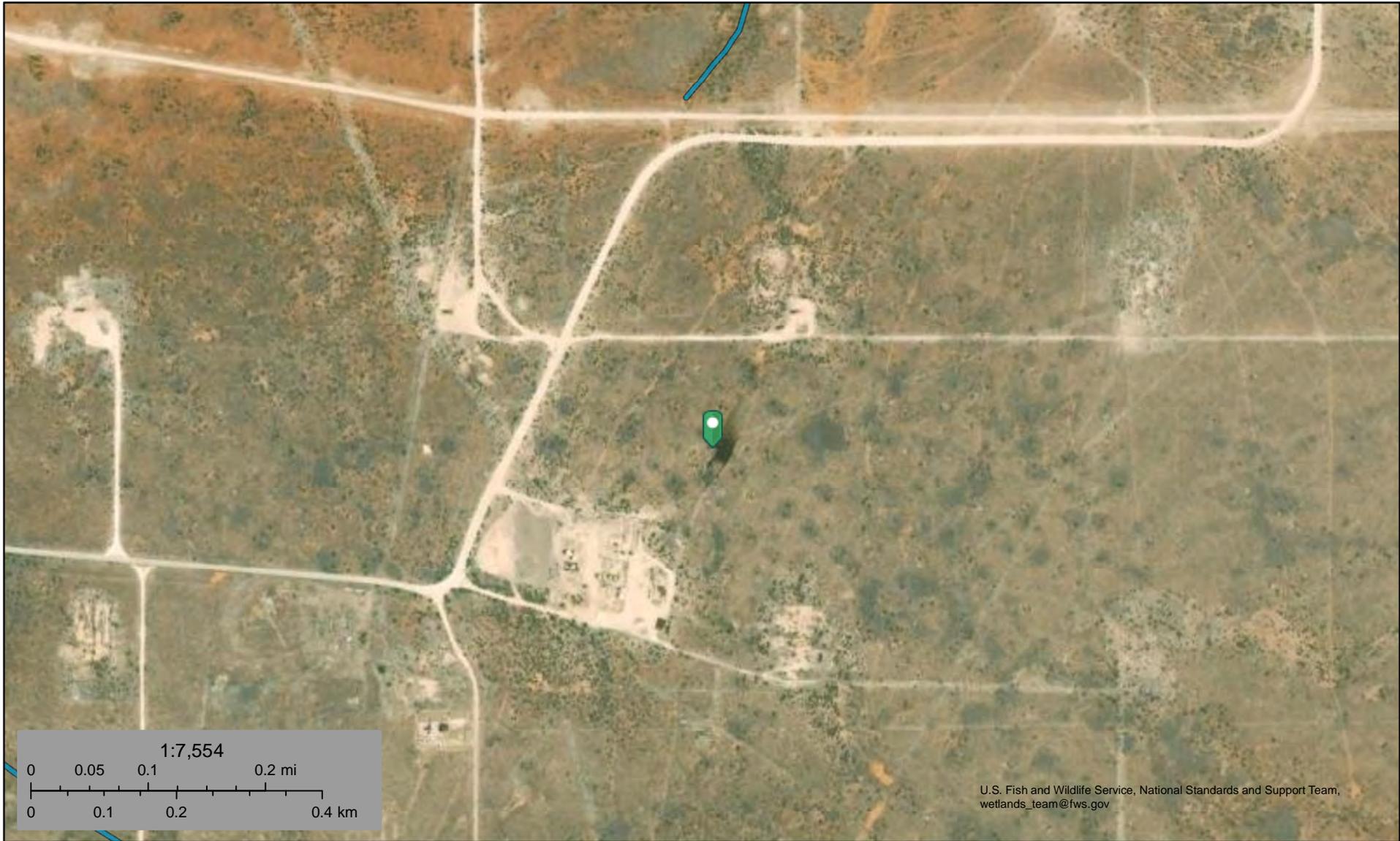
150m Resolution Metadata



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



ARU #4



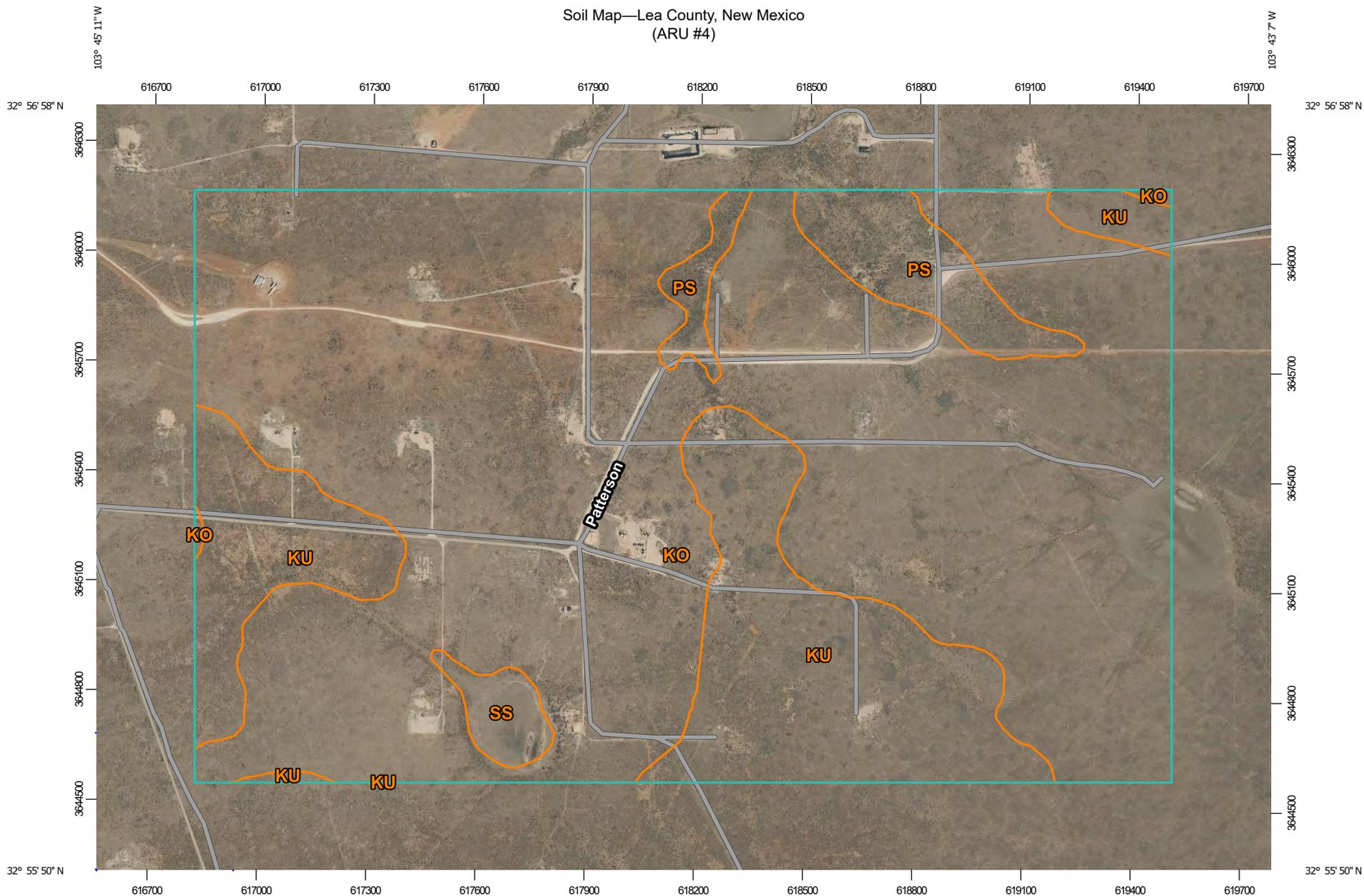
January 8, 2024

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—Lea County, New Mexico
(ARU #4)



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



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

10/30/2023
Page 1 of 3

Soil Map—Lea County, New Mexico
(ARU #4)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features

-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features

Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

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

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

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

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

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

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

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KO	Kimbrough gravelly loam, dry, 0 to 3 percent slopes	809.0	75.1%
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	205.1	19.0%
PS	Portales-Stegall loams	49.9	4.6%
SS	Stegall and Slaughter soils	13.7	1.3%
Totals for Area of Interest		1,077.8	100.0%

Map Unit Description: Kimbrough gravelly loam, dry, 0 to 3 percent slopes---Lea County, New Mexico

ARU #4

Lea County, New Mexico

KO—Kimbrough gravelly loam, dry, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw43

Elevation: 2,500 to 4,800 feet

Mean annual precipitation: 14 to 16 inches

Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 180 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough, dry, and similar soils: 80 percent

Minor components: 20 percent

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

Description of Kimbrough, Dry

Setting

Landform: Playa rims, plains

Down-slope shape: Convex, linear

Across-slope shape: Concave, linear

Parent material: Loamy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 3 inches: gravelly loam

Bw - 3 to 10 inches: loam

Bkkm1 - 10 to 16 inches: cemented material

Bkkm2 - 16 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 4 to 18 inches to petrocalcic

Drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.01 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 95 percent

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

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Map Unit Description: Kimbrough gravelly loam, dry, 0 to 3 percent slopes---Lea County, New Mexico

ARU #4

Hydrologic Soil Group: D
Ecological site: R077DY049TX - Very Shallow 12-17" PZ
Hydric soil rating: No

Minor Components

Eunice

Percent of map unit: 10 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: R077DY049TX - Very Shallow 12-17" PZ
Hydric soil rating: No

Spraberry

Percent of map unit: 6 percent
Landform: Playa rims, plains
Down-slope shape: Convex, linear
Across-slope shape: Linear
Ecological site: R077DY049TX - Very Shallow 12-17" PZ
Hydric soil rating: No

Kenhill

Percent of map unit: 4 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077DY038TX - Clay Loam 12-17" PZ
Hydric soil rating: No

Data Source Information

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

Attachment II NMOCD Correspondence

Daniel Dominguez

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, November 9, 2023 8:57 AM
To: Daniel Dominguez
Cc: Velez, Nelson, EMNRD; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] Closure Samples

Good morning Daniel,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

[Shelly Wells](#) * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Daniel Dominguez <ddominguez@hungry-horse.com>
Sent: Thursday, November 9, 2023 6:56 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Closure Samples

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

We will be collecting closure samples at the ARU #4 (nAPP2329041834) on Tuesday November 14, 2023 at 8 am.
This is our 2 day notice.

Daniel Dominguez
Environmental Manager
Hungry Horse, LLC
(m) 575-408-3134
ddominguez@hungry-horse.com

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	293031	Districts:	Hobbs
Operator:	[155471] GRAND BANKS ENERGY CO	Counties:	Lea
Description:	GRAND BANKS ENERGY CO [155471] , ARU #4 , nAPP2329041834		
Status:	APPROVED		
Status Date:	12/11/2023		
References (2):	30-025-00386, nAPP2329041834		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2329041834
Incident Name	NAPP2329041834 ARU #4 @ 30-025-00386
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-00386] ANDERSON RANCH UNIT #004

Location of Release Source

Site Name	ARU #4
Date Release Discovered	10/11/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	5,200
What is the estimated number of samples that will be gathered	26
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/14/2023
Time sampling will commence	08:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Hungry Horse, Daniel, 575-408-3134
Please provide any information necessary for navigation to sampling site	32.940186, -103.736002

[Searches](#)

[Operator Data](#)

[Hearing Fee Application](#)

Comments

No comments found for this submission.

Conditions

Summary:

shendry (12/11/2023), 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.

Reasons

No reasons found for this submission.

[Go Back](#)

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[EMNRD Home](#) [OCD Main Page](#) [OCD Rules](#) [Help](#)

Attachment III Site Photographs

Photographs



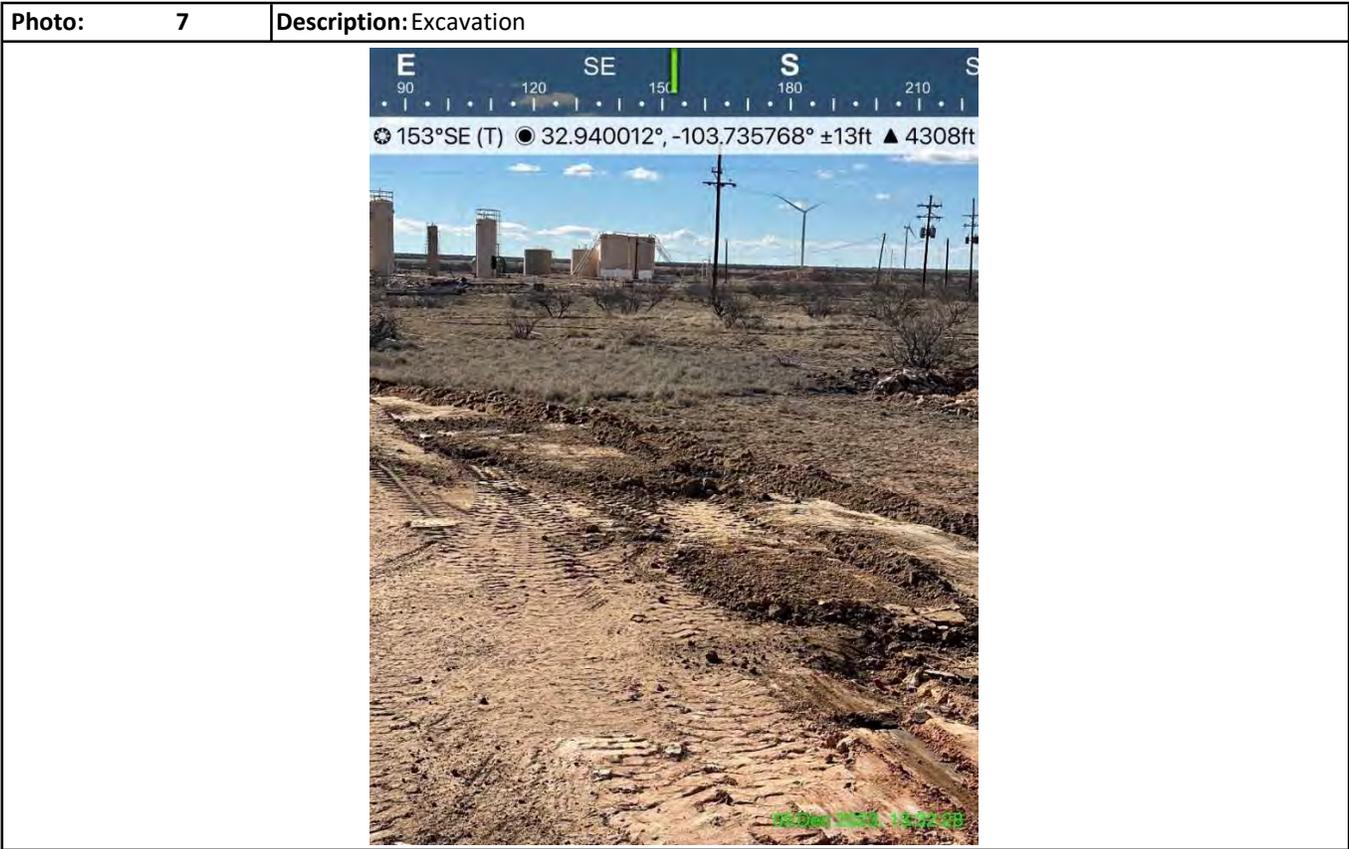
Photographs



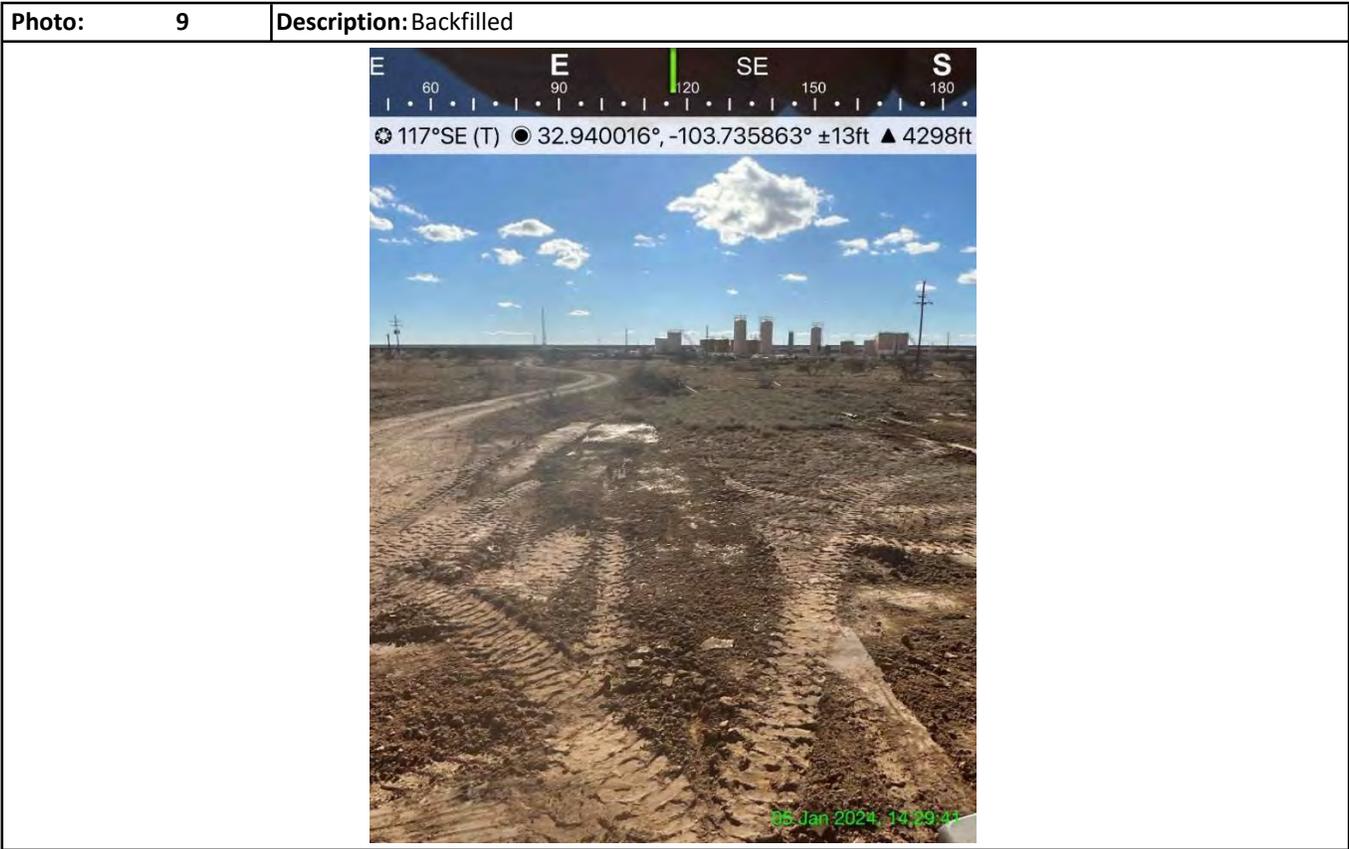
Photographs



Photographs



Photographs



Photographs

Photo: 11 **Description:** Backfilled



Photo: 12 **Description:** Backfilled



Attachment IV Depth to Groundwater



New Mexico Office of the State Engineer Wells with Well Log Information

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

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

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

(NAD83 UTM in meters)

(in feet)

POD Number	Code	Subbasin	County	Source	6416 4	4	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	Licens Number	
L_02846		L	LE	Shallow	4	2	1	11	16S	32E	617956	3645413*	210		05/06/1953	04/11/1955	328	275	CLYDE ABBOTT	46
L_02847	R	L	LE	Shallow	1	4	2	11	16S	32E	618564	3645219*	428	10/03/1952	10/03/1952	04/14/1955	317	220	GRADY ROBERTS	
L_02847	R	L	LE	Shallow	1	4	2	11	16S	32E	618564	3645219*	428	10/03/1952	10/03/1952	04/14/1955	317	220	GRADY ROBERTS	
L_02617		L	LE	Shallow	4	4	02		16S	32E	618656	3645924*	746	08/06/1954	08/07/1954	08/23/1954	322	270	BURKE, EDWARD B.	111
L_08241		L	LE	Shallow	4	4	02		16S	32E	618656	3645924*	746	04/04/1980	04/12/1980	04/24/1980	316		CORKY GLENN	421

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 618161 **Northing (Y):** 3645364.77 **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 particular purpose of the data.

1/8/24 8:50 AM

WELLS WITH WELL LOG INFORMATION



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)				
Well Tag	POD Number	(quarters are smallest to largest)	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L 02846			4	2	1	11	16S	32E	617956	3645413*

Driller License: 46	Driller Company: ABBOTT BROTHERS COMPANY	
Driller Name: CLYDE ABBOTT		
Drill Start Date:	Drill Finish Date: 05/06/1953	Plug Date:
Log File Date: 04/11/1955	PCW Rev Date: 03/16/1960	Source: Shallow
Pump Type: TURBIN	Pipe Discharge Size: 4	Estimated Yield: 60 GPM
Casing Size: 7.00	Depth Well: 328 feet	Depth Water: 275 feet

Water Bearing Stratifications:	Top	Bottom	Description
	275	328	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	275	328

*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.

10/16/23 7:12 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)					(NAD83 UTM in meters)
Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
L 02847		1 4 2	11	16S	32E	618564	3645219*

Driller License:		Driller Company:	
Driller Name: GRADY ROBERTS			
Drill Start Date:	10/03/1952	Drill Finish Date:	10/03/1952
Log File Date:	04/14/1955	PCW Rev Date:	04/23/1956
Pump Type:	TURBIN	Pipe Discharge Size:	3
Casing Size:	8.63	Depth Well:	317 feet
		Plug Date:	
		Source:	Shallow
		Estimated Yield:	80 GPM
		Depth Water:	220 feet

Water Bearing Stratifications:	Top	Bottom	Description
	220	312	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	220	312

*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.

1/8/24 12:51 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)				
Well Tag	POD Number	(quarters are smallest to largest)	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L	02954		2	4	03	16S	32E	617043	3646310*	

Driller License: 46	Driller Company: ABBOTT BROTHERS COMPANY	
Driller Name: MURRELL ABBOTT		
Drill Start Date: 07/28/1955	Drill Finish Date: 07/28/1955	Plug Date:
Log File Date: 08/11/1955	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size:	Depth Well: 120 feet	Depth Water: 65 feet

Water Bearing Stratifications:	Top	Bottom	Description
	65	120	Sandstone/Gravel/Conglomerate

*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.

1/8/24 1:01 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)				
Well Tag	POD Number	(quarters are smallest to largest)	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	L 08241		4	4	02	16S	32E	618656	3645924*	

Driller License: 421	Driller Company: GLENN'S WATER WELL SERVICE	
Driller Name: CORKY GLENN		
Drill Start Date: 04/04/1980	Drill Finish Date: 04/12/1980	Plug Date:
Log File Date: 04/24/1980	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 6.63	Depth Well: 316 feet	Depth Water:

Casing Perforations:	Top	Bottom
	296	316

*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.

1/8/24 12:52 PM

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Search Results -- 1 sites found

Agency code = usgs
 site_no list =

- 325614103434001

Minimum number of levels = 1

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USGS 325614103434001 16S.32E.11.24143

Lea County, New Mexico

Latitude 32°56'17", Longitude 103°43'52" NAD27

Land-surface elevation 4,301.00 feet above NGVD29

The depth of the well is 317 feet below land surface.

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1961-03-15			D 62610		4084.14	NGVD29	1	Z		
1961-03-15			D 62611		4085.84	NAVD88	1	Z		
1961-03-15			D 72019	216.86			1	Z		
1966-02-16			D 62610		4076.83	NGVD29	1	Z		
1966-02-16			D 62611		4078.53	NAVD88	1	Z		
1966-02-16			D 72019	224.17			1	Z		
1971-03-23			D 62610		4084.94	NGVD29	1	Z		
1971-03-23			D 62611		4086.64	NAVD88	1	Z		
1971-03-23			D 72019	216.06			1	Z		
1976-05-07			D 62610		4085.05	NGVD29	1	Z		
1976-05-07			D 62611		4086.75	NAVD88	1	Z		
1976-05-07			D 72019	215.95			1	Z		
1981-03-27			D 62610		4084.26	NGVD29	1	Z		
1981-03-27			D 62611		4085.96	NAVD88	1	Z		
1981-03-27			D 72019	216.74			1	Z		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for USA: Water Levels

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



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0.38 0.29 nadww02



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Search Results -- 1 sites found

Agency code = usgs
 site_no list =

- 325650103435601

Minimum number of levels = 1
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USGS 325650103435601 16S.32E.02.41341

Lea County, New Mexico
 Latitude 32°56'50", Longitude 103°43'56" NAD27
 Land-surface elevation 4,277 feet above NAVD88
 The depth of the well is 328 feet below land surface.
 This well is completed in the High Plains aquifer (N100HGHLN) national aquifer.
 This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1961-03-15			D 62610		4068.31	NGVD29	1	Z		
1961-03-15			D 62611		4070.01	NAVD88	1	Z		
1961-03-15			D 72019	206.99			1	Z		
1976-05-06			D 62610		4065.40	NGVD29	1	Z		
1976-05-06			D 62611		4067.10	NAVD88	1	Z		
1976-05-06			D 72019	209.90			1	Z		
1981-03-27			D 62610		4063.96	NGVD29	1	Z		
1981-03-27			D 62611		4065.66	NAVD88	1	Z		
1981-03-27			D 72019	211.34			1	Z		
1986-01-10			D 62610		4064.02	NGVD29	1	Z		
1986-01-10			D 62611		4065.72	NAVD88	1	Z		
1986-01-10			D 72019	211.28			1	Z		
1990-11-30			D 62610		4062.76	NGVD29	1	Z		
1990-11-30			D 62611		4064.46	NAVD88	1	Z		
1990-11-30			D 72019	212.54			1	Z		
2001-02-16			D 62610		4061.18	NGVD29	1	S		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
2001-02-16			D	62611		4062.88	NAVD88	1	S	
2001-02-16			D	72019	214.12			1	S	
2006-02-16	19:18 UTC		m	62610		4062.10	NGVD29	1	S	USGS
2006-02-16	19:18 UTC		m	62611		4063.80	NAVD88	1	S	USGS
2006-02-16	19:18 UTC		m	72019	213.20			1	S	USGS

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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



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Page Last Modified: 2024-01-08 14:42:31 EST

0.29 0.25 nadww02

Attachment V Field Data

Sample Log

Hungry Horse, LLC

Project: ARU #4

Karst: Yes Water: >100'

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

Date: 10-16-23

GPS: 32.940186, -103.736002

Sampler: Jerry Heidelberg

Sample ID	Depth	PID/Odor	Chloride	GPS
HZ 1	Surf		2.8@ 88X4 = 352	
	1'		0.6 > 100	
HZ 2	Surf		2.8@ 88X4 = 352	
	1'		3.0@ 98X4 = 392	
HZ 3	Surf		2.8@ 88X4 = 352	
	1'		2.8@ 88X4 = 352	
HZ 4	Surf		2.8@ 88X4 = 352	
	1'		2.0@ 52X4 = 208	
SP1	Surf		6.0 @ 1639X4 = 6,556	8' 4.8@ 223X4 = 892
	1'		4.4@ 190X4 = 760	10'
	2'		3.8@ 146X4 = 584	12'
	3'		5.4@ 280X4 = 1,120	14'
	4'		4.8@ 223X4 = 892	16'
	6'		3.8@ 146X4 = 584	
SP2	Surf		9.0@ 6442X4 = 25,768	8'
	1'		5.8@ 324X4 = 1,296	10'
	2'		5.0@ 241X4 = 964	12'
	3'		5.2@ 260X4 = 1,040	14'
	4'		5.4@ 280X4 = 1,120	16'
	6'			
SP3	Surf		9.0@ 6442X4 = 25,768	10'
	1'		4.6@ 286X4 = 824	12'
	2'		3.8@ 146X4 = 584	14'
	3'		4.2@ 174X4 = 696	16'
	4'		3.6@ 133X4 = 532	
	6'			
SP4	Surf		1.2@ >100	10'
	1'		3.8@ 146X4 = 584	12'
	2'		3.4@ 121X4 = 484	14'
	3'		2.4@ 68X4 = 272	16'
	4'		1.6@ 37X4 = 148	
	6'			
SP5	Surf		1.2@ >100	

Sample Point = SP1 @ ## etc

Horizontal = HZ1 etc

Test Trench = TT1 @ ##

Floor = FL1 etc

Refusal = SP1 @ 4'-R

Resamples = SP1b @ 5' or SW #1b

Sidewall = SW1 etc

GPS Sample Points, Center of Comp Areas

Stockpile = Stockpile #1

Attachment VI

Laboratory Analytical Reports



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

October 20, 2023

BRADLEY WELLS

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: ARU #4

Enclosed are the results of analyses for samples received by the laboratory on 10/17/23 16:11.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/17/2023	Sampling Date:	10/16/2023
Reported:	10/20/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: SP 1 - SURF (H235687-01)

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	10/19/2023	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	10/19/2023	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.01	100	2.00	0.780	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.93	98.8	6.00	0.600	
Total BTEX	<0.300	0.300	10/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	10/18/2023	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	10/18/2023	ND	180	90.0	200	0.0128	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	186	92.8	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/17/2023	Sampling Date:	10/16/2023
Reported:	10/20/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: SP 2 - SURF (H235687-02)

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	10/19/2023	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	10/19/2023	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.01	100	2.00	0.780	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.93	98.8	6.00	0.600	
Total BTEX	<0.300	0.300	10/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24000	16.0	10/18/2023	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	10/18/2023	ND	180	90.0	200	0.0128	
DRO >C10-C28*	716	10.0	10/18/2023	ND	186	92.8	200	2.13	
EXT DRO >C28-C36	451	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/17/2023	Sampling Date:	10/16/2023
Reported:	10/20/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: SP 3 - SURF (H235687-03)

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	10/19/2023	ND	2.02	101	2.00	1.87		
Toluene*	<0.050	0.050	10/19/2023	ND	1.97	98.3	2.00	1.16		
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.01	100	2.00	0.780		
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.93	98.8	6.00	0.600		
Total BTEX	<0.300	0.300	10/19/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	41200	16.0	10/18/2023	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	10/18/2023	ND	180	90.0	200	0.0128		
DRO >C10-C28*	190	10.0	10/18/2023	ND	186	92.8	200	2.13		
EXT DRO >C28-C36	131	10.0	10/18/2023	ND						

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/17/2023	Sampling Date:	10/16/2023
Reported:	10/20/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: SP 4 - SURF (H235687-04)

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	10/19/2023	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	10/19/2023	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.01	100	2.00	0.780	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.93	98.8	6.00	0.600	
Total BTEX	<0.300	0.300	10/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	10/18/2023	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	10/18/2023	ND	176	88.2	200	4.41	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	171	85.3	200	0.844	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received:	10/17/2023	Sampling Date:	10/16/2023
Reported:	10/20/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: SP 5 - SURF (H235687-05)

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	10/19/2023	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	10/19/2023	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.01	100	2.00	0.780	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.93	98.8	6.00	0.600	
Total BTEX	<0.300	0.300	10/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	64.0	16.0	10/18/2023	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	10/18/2023	ND	176	88.2	200	4.41	
DRO >C10-C28*	617	10.0	10/18/2023	ND	171	85.3	200	0.844	
EXT DRO >C28-C36	448	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 93.9 % 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
 BRADLEY WELLS
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	10/17/2023	Sampling Date:	10/16/2023
Reported:	10/20/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: HZ 1 - SURF (H235687-06)

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	10/19/2023	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	10/19/2023	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.01	100	2.00	0.780	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.93	98.8	6.00	0.600	
Total BTEX	<0.300	0.300	10/19/2023	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	10/18/2023	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	10/18/2023	ND	176	88.2	200	4.41	
DRO >C10-C28*	1660	10.0	10/18/2023	ND	171	85.3	200	0.844	
EXT DRO >C28-C36	1080	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

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

Received:	10/17/2023	Sampling Date:	10/16/2023
Reported:	10/20/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: HZ 1 - 1' (H235687-07)

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	10/19/2023	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	10/19/2023	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.01	100	2.00	0.780	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.93	98.8	6.00	0.600	
Total BTEX	<0.300	0.300	10/19/2023	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	16.0	16.0	10/18/2023	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	10/18/2023	ND	176	88.2	200	4.41	
DRO >C10-C28*	193	10.0	10/18/2023	ND	171	85.3	200	0.844	
EXT DRO >C28-C36	109	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

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

Received:	10/17/2023	Sampling Date:	10/16/2023
Reported:	10/20/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: HZ 2 - SURF (H235687-08)

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	10/19/2023	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	10/19/2023	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.01	100	2.00	0.780	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.93	98.8	6.00	0.600	
Total BTEX	<0.300	0.300	10/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/18/2023	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	10/18/2023	ND	176	88.2	200	4.41	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	171	85.3	200	0.844	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received:	10/17/2023	Sampling Date:	10/16/2023
Reported:	10/20/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: HZ 2 - 1' (H235687-09)

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	10/19/2023	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	10/19/2023	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.01	100	2.00	0.780	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.93	98.8	6.00	0.600	
Total BTEX	<0.300	0.300	10/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/18/2023	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	10/18/2023	ND	176	88.2	200	4.41	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	171	85.3	200	0.844	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

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

Received:	10/17/2023	Sampling Date:	10/16/2023
Reported:	10/20/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: HZ 3 - SURF (H235687-10)

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	10/19/2023	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	10/19/2023	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.01	100	2.00	0.780	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.93	98.8	6.00	0.600	
Total BTEX	<0.300	0.300	10/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/18/2023	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	10/18/2023	ND	176	88.2	200	4.41	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	171	85.3	200	0.844	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

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

Received:	10/17/2023	Sampling Date:	10/16/2023
Reported:	10/20/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: HZ 3 - 1' (H235687-11)

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	10/19/2023	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	10/19/2023	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.01	100	2.00	0.780	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.93	98.8	6.00	0.600	
Total BTEX	<0.300	0.300	10/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/18/2023	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	10/18/2023	ND	176	88.2	200	4.41	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	171	85.3	200	0.844	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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

Received:	10/17/2023	Sampling Date:	10/16/2023
Reported:	10/20/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: HZ 4 - SURF (H235687-12)

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	10/19/2023	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	10/19/2023	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.01	100	2.00	0.780	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.93	98.8	6.00	0.600	
Total BTEX	<0.300	0.300	10/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/18/2023	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	10/18/2023	ND	176	88.2	200	4.41	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	171	85.3	200	0.844	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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

Received:	10/17/2023	Sampling Date:	10/16/2023
Reported:	10/20/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: HZ 4 - 1' (H235687-13)

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	10/19/2023	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	10/19/2023	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.01	100	2.00	0.780	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.93	98.8	6.00	0.600	
Total BTEX	<0.300	0.300	10/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/18/2023	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	10/18/2023	ND	176	88.2	200	4.41	
DRO >C10-C28*	<10.0	10.0	10/18/2023	ND	171	85.3	200	0.844	
EXT DRO >C28-C36	<10.0	10.0	10/18/2023	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

Cardinal Laboratories

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Hungry Horse LLC		BILL TO				ANALYSIS REQUEST														
Project Manager: Bradley Wells		P.O. #:																		
Address: PO Box 1058		Company: Grand Banks Energy Co																		
City: Hobbs		State: NM		Zip: 88241		Attn: Jason Wacker														
Phone #: 575 393-3386		Fax #:		Address: PO Box 272																
Project #:		Project Owner: Grand Banks Energy Co		City: Midland																
Project Name: ARU #4		State: TX		Zip: 79702																
Project Location: UL/ B Sec 11 T16S - R32E		Phone #: 432-631-2142																		
Sampler Name: Jerry Heidelberg		Fax #:																		
FOR LAB USE ONLY																				
Lab I.D.		Sample I.D.		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			
H235687				C	1	X					X		10/16/23		X	X	X			
1		SP1-Surf		C	1	X					X		10/16/23		X	X	X			
2		SP2-Surf		C	1	X					X		10/16/23		X	X	X			
3		SP3-Surf		C	1	X					X		10/16/23		X	X	X			
4		SP4-Surf		C	1	X					X		10/16/23		X	X	X			
5		SP5-Surf		C	1	X					X		10/16/23		X	X	X			

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Relinquished By:		Date: 10-17-23		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 7:11				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS: Email results to: pm@hungry-horse.com jason.wacker@octane-energy.com			
		Time:							
Delivered By: (Circle One)		#140		Sample Condition		CHECKED BY: (Initials)			
Sampler - UPS - Bus - Other: -4.2°C				Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		T.O.			
				Yes <input type="checkbox"/> No <input type="checkbox"/>					

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



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

October 30, 2023

BRUCE BAKER

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: ARU #4

Enclosed are the results of analyses for samples received by the laboratory on 10/24/23 8:02.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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
 BRUCE BAKER
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	10/24/2023	Sampling Date:	10/23/2023
Reported:	10/30/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: SP 1 - 2' (H235805-01)

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	10/27/2023	ND	1.92	96.0	2.00	1.43	
Toluene*	<0.050	0.050	10/27/2023	ND	2.00	100	2.00	2.22	
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.02	101	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.05	101	6.00	2.77	
Total BTEX	<0.300	0.300	10/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	10/27/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	26.3	10.0	10/26/2023	ND	189	94.3	200	17.1	
DRO >C10-C28*	421	10.0	10/26/2023	ND	175	87.3	200	22.5	
EXT DRO >C28-C36	52.8	10.0	10/26/2023	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/24/2023	Sampling Date:	10/23/2023
Reported:	10/30/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: SP 2 - 2' (H235805-02)

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	10/27/2023	ND	2.05	103	2.00	2.81		
Toluene*	<0.050	0.050	10/27/2023	ND	2.03	101	2.00	2.71		
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.06	103	2.00	2.46		
Total Xylenes*	<0.150	0.150	10/27/2023	ND	5.90	98.4	6.00	2.15		
Total BTEX	<0.300	0.300	10/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 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	864	16.0	10/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/26/2023	ND	189	94.3	200	17.1		
DRO >C10-C28*	40.5	10.0	10/26/2023	ND	175	87.3	200	22.5		
EXT DRO >C28-C36	<10.0	10.0	10/26/2023	ND						

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/24/2023	Sampling Date:	10/23/2023
Reported:	10/30/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: SP 3 - 2' (H235805-03)

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	10/27/2023	ND	2.05	103	2.00	2.81	
Toluene*	<0.050	0.050	10/27/2023	ND	2.03	101	2.00	2.71	
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.06	103	2.00	2.46	
Total Xylenes*	<0.150	0.150	10/27/2023	ND	5.90	98.4	6.00	2.15	
Total BTEX	<0.300	0.300	10/27/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/27/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2023	ND	189	94.3	200	17.1	
DRO >C10-C28*	47.4	10.0	10/26/2023	ND	175	87.3	200	22.5	
EXT DRO >C28-C36	<10.0	10.0	10/26/2023	ND					

Surrogate: 1-Chlorooctane 73.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.7 % 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
 BRUCE BAKER
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	10/24/2023	Sampling Date:	10/23/2023
Reported:	10/30/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: SP 4 - 2' (H235805-04)

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	10/27/2023	ND	2.05	103	2.00	2.81		
Toluene*	<0.050	0.050	10/27/2023	ND	2.03	101	2.00	2.71		
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.06	103	2.00	2.46		
Total Xylenes*	<0.150	0.150	10/27/2023	ND	5.90	98.4	6.00	2.15		
Total BTEX	<0.300	0.300	10/27/2023	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	32.0	16.0	10/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/26/2023	ND	189	94.3	200	17.1		
DRO >C10-C28*	<10.0	10.0	10/26/2023	ND	175	87.3	200	22.5		
EXT DRO >C28-C36	<10.0	10.0	10/26/2023	ND						

Surrogate: 1-Chlorooctane 76.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.4 % 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
 BRUCE BAKER
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	10/24/2023	Sampling Date:	10/23/2023
Reported:	10/30/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: SP 5 - 2' (H235805-05)

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	10/27/2023	ND	2.05	103	2.00	2.81	
Toluene*	<0.050	0.050	10/27/2023	ND	2.03	101	2.00	2.71	
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.06	103	2.00	2.46	
Total Xylenes*	<0.150	0.150	10/27/2023	ND	5.90	98.4	6.00	2.15	
Total BTEX	<0.300	0.300	10/27/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/27/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2023	ND	189	94.3	200	17.1	
DRO >C10-C28*	131	10.0	10/26/2023	ND	175	87.3	200	22.5	
EXT DRO >C28-C36	14.7	10.0	10/26/2023	ND					

Surrogate: 1-Chlorooctane 68.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.0 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
- 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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Form containing company and project information, analysis request details, and a table with columns for Lab I.D., Sample I.D., Matrix, Preserv., and Sampling. Includes handwritten entries like 'H235805' and '1.8'.

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.

Signature and date fields for Relinquished By, Received By, and Delivered By. Includes checkboxes for Phone/Fax Result and Sample Condition.

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



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

November 17, 2023

BRADLEY WELLS

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: ARU #4

Enclosed are the results of analyses for samples received by the laboratory on 11/14/23 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 1 (H236236-01)

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	11/15/2023	ND	2.15	107	2.00	2.64		
Toluene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.70		
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.88		
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.77	113	6.00	2.83		
Total BTEX	<0.300	0.300	11/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	11/16/2023	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	11/15/2023	ND	194	96.8	200	3.13		
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	185	92.3	200	8.12		
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND						

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 2 (H236236-02)

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	11/15/2023	ND	2.15	107	2.00	2.64	
Toluene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.70	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.88	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.77	113	6.00	2.83	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/16/2023	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	11/15/2023	ND	194	96.8	200	3.13	
DRO >C10-C28*	40.8	10.0	11/15/2023	ND	185	92.3	200	8.12	
EXT DRO >C28-C36	11.6	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 3 (H236236-03)

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	11/15/2023	ND	2.15	107	2.00	2.64	
Toluene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.70	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.88	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.77	113	6.00	2.83	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/16/2023	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	11/15/2023	ND	194	96.8	200	3.13	
DRO >C10-C28*	54.3	10.0	11/15/2023	ND	185	92.3	200	8.12	
EXT DRO >C28-C36	15.1	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 4 (H236236-04)

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	11/15/2023	ND	2.15	107	2.00	2.64	
Toluene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.70	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.88	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.77	113	6.00	2.83	
Total BTEX	<0.300	0.300	11/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	11/16/2023	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	11/15/2023	ND	194	96.8	200	3.13	
DRO >C10-C28*	55.0	10.0	11/15/2023	ND	185	92.3	200	8.12	
EXT DRO >C28-C36	13.6	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 5 (H236236-05)

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	11/15/2023	ND	2.15	107	2.00	2.64	
Toluene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.70	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.88	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.77	113	6.00	2.83	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/16/2023	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	11/15/2023	ND	194	96.8	200	3.13	
DRO >C10-C28*	96.6	10.0	11/15/2023	ND	185	92.3	200	8.12	
EXT DRO >C28-C36	24.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 6 (H236236-06)

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	11/15/2023	ND	2.15	107	2.00	2.64	
Toluene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.70	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.88	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.77	113	6.00	2.83	
Total BTEX	<0.300	0.300	11/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	11/16/2023	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	11/15/2023	ND	194	96.8	200	3.13	
DRO >C10-C28*	98.0	10.0	11/15/2023	ND	185	92.3	200	8.12	
EXT DRO >C28-C36	24.8	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.3 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 7 (H236236-07)

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	11/15/2023	ND	2.15	107	2.00	2.64	
Toluene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.70	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.88	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.77	113	6.00	2.83	
Total BTEX	<0.300	0.300	11/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	11/16/2023	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	11/15/2023	ND	194	96.8	200	3.13	
DRO >C10-C28*	92.0	10.0	11/15/2023	ND	185	92.3	200	8.12	
EXT DRO >C28-C36	27.2	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 8 (H236236-08)

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	11/15/2023	ND	2.15	107	2.00	2.64	
Toluene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.70	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.88	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.77	113	6.00	2.83	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/16/2023	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	11/15/2023	ND	194	96.8	200	3.13	
DRO >C10-C28*	93.9	10.0	11/15/2023	ND	185	92.3	200	8.12	
EXT DRO >C28-C36	24.7	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 9 (H236236-09)

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	11/15/2023	ND	2.15	107	2.00	2.64	
Toluene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.70	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.88	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.77	113	6.00	2.83	
Total BTEX	<0.300	0.300	11/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	11/16/2023	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	11/15/2023	ND	194	96.8	200	3.13	
DRO >C10-C28*	52.4	10.0	11/15/2023	ND	185	92.3	200	8.12	
EXT DRO >C28-C36	16.9	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 73.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 10 (H236236-10)

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	11/15/2023	ND	2.15	107	2.00	2.64	
Toluene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.70	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.88	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.77	113	6.00	2.83	
Total BTEX	<0.300	0.300	11/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	11/16/2023	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	11/15/2023	ND	194	96.8	200	3.13	
DRO >C10-C28*	31.1	10.0	11/15/2023	ND	185	92.3	200	8.12	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 11 (H236236-11)

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	11/15/2023	ND	2.15	107	2.00	2.64	
Toluene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.70	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.17	108	2.00	2.88	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.77	113	6.00	2.83	
Total BTEX	<0.300	0.300	11/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	11/16/2023	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	11/17/2023	ND	176	88.0	200	0.633	
DRO >C10-C28*	271	10.0	11/17/2023	ND	170	85.2	200	1.99	
EXT DRO >C28-C36	64.9	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 12 (H236236-12)

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	11/15/2023	ND	1.92	96.2	2.00	1.92	
Toluene*	<0.050	0.050	11/15/2023	ND	1.87	93.3	2.00	6.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.3	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.84	97.4	6.00	10.2	
Total BTEX	<0.300	0.300	11/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	11/16/2023	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	11/17/2023	ND	176	88.0	200	0.633	
DRO >C10-C28*	183	10.0	11/17/2023	ND	170	85.2	200	1.99	
EXT DRO >C28-C36	42.9	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 67.1 % 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
 BRADLEY WELLS
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 13 (H236236-13)

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	11/15/2023	ND	1.92	96.2	2.00	1.92	
Toluene*	<0.050	0.050	11/15/2023	ND	1.87	93.3	2.00	6.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.3	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.84	97.4	6.00	10.2	
Total BTEX	<0.300	0.300	11/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	96.0	16.0	11/16/2023	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	11/15/2023	ND	176	88.0	200	0.633	
DRO >C10-C28*	286	10.0	11/15/2023	ND	170	85.2	200	1.99	
EXT DRO >C28-C36	47.4	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 14 (H236236-14)

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	11/15/2023	ND	1.92	96.2	2.00	1.92	
Toluene*	<0.050	0.050	11/15/2023	ND	1.87	93.3	2.00	6.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.3	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.84	97.4	6.00	10.2	
Total BTEX	<0.300	0.300	11/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	11/16/2023	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	11/17/2023	ND	176	88.0	200	0.633	
DRO >C10-C28*	456	10.0	11/17/2023	ND	170	85.2	200	1.99	
EXT DRO >C28-C36	74.3	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 73.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 15 (H236236-15)

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	11/15/2023	ND	1.92	96.2	2.00	1.92	
Toluene*	<0.050	0.050	11/15/2023	ND	1.87	93.3	2.00	6.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.3	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.84	97.4	6.00	10.2	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/16/2023	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	11/17/2023	ND	176	88.0	200	0.633	
DRO >C10-C28*	429	10.0	11/17/2023	ND	170	85.2	200	1.99	
EXT DRO >C28-C36	87.9	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 73.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 16 (H236236-16)

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	11/15/2023	ND	1.92	96.2	2.00	1.92	
Toluene*	<0.050	0.050	11/15/2023	ND	1.87	93.3	2.00	6.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.3	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.84	97.4	6.00	10.2	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/16/2023	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	11/15/2023	ND	176	88.0	200	0.633	
DRO >C10-C28*	242	10.0	11/15/2023	ND	170	85.2	200	1.99	
EXT DRO >C28-C36	35.5	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 17 (H236236-17)

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	11/15/2023	ND	1.92	96.2	2.00	1.92	
Toluene*	<0.050	0.050	11/15/2023	ND	1.87	93.3	2.00	6.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.3	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.84	97.4	6.00	10.2	
Total BTEX	<0.300	0.300	11/15/2023	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	176	16.0	11/16/2023	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	11/15/2023	ND	176	88.0	200	0.633	
DRO >C10-C28*	483	10.0	11/15/2023	ND	170	85.2	200	1.99	
EXT DRO >C28-C36	73.6	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 18 (H236236-18)

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	11/15/2023	ND	1.92	96.2	2.00	1.92	
Toluene*	<0.050	0.050	11/15/2023	ND	1.87	93.3	2.00	6.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.3	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.84	97.4	6.00	10.2	
Total BTEX	<0.300	0.300	11/15/2023	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	208	16.0	11/16/2023	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	11/15/2023	ND	176	88.0	200	0.633	
DRO >C10-C28*	314	10.0	11/15/2023	ND	170	85.2	200	1.99	
EXT DRO >C28-C36	42.3	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 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
 BRADLEY WELLS
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 19 (H236236-19)

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	11/15/2023	ND	1.92	96.2	2.00	1.92	
Toluene*	<0.050	0.050	11/15/2023	ND	1.87	93.3	2.00	6.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.3	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.84	97.4	6.00	10.2	
Total BTEX	<0.300	0.300	11/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	32.0	16.0	11/16/2023	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	11/15/2023	ND	176	88.0	200	0.633	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	170	85.2	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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Analytical Results For:

Hungry Horse Environmental
 BRADLEY WELLS
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 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 20 (H236236-20)

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	11/15/2023	ND	1.92	96.2	2.00	1.92	
Toluene*	<0.050	0.050	11/15/2023	ND	1.87	93.3	2.00	6.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.3	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.84	97.4	6.00	10.2	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/16/2023	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	11/15/2023	ND	176	88.0	200	0.633	
DRO >C10-C28*	38.4	10.0	11/15/2023	ND	170	85.2	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 21 (H236236-21)

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	11/15/2023	ND	1.92	96.2	2.00	1.92	
Toluene*	<0.050	0.050	11/15/2023	ND	1.87	93.3	2.00	6.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.3	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.84	97.4	6.00	10.2	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/16/2023	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	11/15/2023	ND	176	88.0	200	0.633	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	170	85.2	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 22 (H236236-22)

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	11/15/2023	ND	1.92	96.2	2.00	1.92	
Toluene*	<0.050	0.050	11/15/2023	ND	1.87	93.3	2.00	6.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.3	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.84	97.4	6.00	10.2	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/16/2023	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	11/15/2023	ND	176	88.0	200	0.633	
DRO >C10-C28*	13.2	10.0	11/15/2023	ND	170	85.2	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 23 (H236236-23)

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	11/15/2023	ND	1.92	96.2	2.00	1.92	
Toluene*	<0.050	0.050	11/15/2023	ND	1.87	93.3	2.00	6.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.3	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.84	97.4	6.00	10.2	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/16/2023	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	11/15/2023	ND	176	88.0	200	0.633	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	170	85.2	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 24 (H236236-24)

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	11/15/2023	ND	1.92	96.2	2.00	1.92	
Toluene*	<0.050	0.050	11/15/2023	ND	1.87	93.3	2.00	6.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.3	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.84	97.4	6.00	10.2	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/16/2023	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	11/15/2023	ND	176	88.0	200	0.633	
DRO >C10-C28*	44.8	10.0	11/15/2023	ND	170	85.2	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 25 (H236236-25)

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	11/15/2023	ND	1.92	96.2	2.00	1.92	
Toluene*	<0.050	0.050	11/15/2023	ND	1.87	93.3	2.00	6.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.3	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.84	97.4	6.00	10.2	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/16/2023	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	11/15/2023	ND	176	88.0	200	0.633	
DRO >C10-C28*	31.7	10.0	11/15/2023	ND	170	85.2	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 26 (H236236-26)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.92	96.2	2.00	1.92	
Toluene*	<0.050	0.050	11/15/2023	ND	1.87	93.3	2.00	6.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.3	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.84	97.4	6.00	10.2	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/16/2023	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	11/15/2023	ND	176	88.0	200	0.633	
DRO >C10-C28*	23.7	10.0	11/15/2023	ND	170	85.2	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 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
 BRADLEY WELLS
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 27 (H236236-27)

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	11/15/2023	ND	1.92	96.2	2.00	1.92	
Toluene*	<0.050	0.050	11/15/2023	ND	1.87	93.3	2.00	6.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.3	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.84	97.4	6.00	10.2	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/16/2023	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	11/15/2023	ND	176	88.0	200	0.633	
DRO >C10-C28*	14.9	10.0	11/15/2023	ND	170	85.2	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 60.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.2 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 28 (H236236-28)

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	11/15/2023	ND	1.92	96.2	2.00	1.92	
Toluene*	<0.050	0.050	11/15/2023	ND	1.87	93.3	2.00	6.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.3	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.84	97.4	6.00	10.2	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/16/2023	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	11/15/2023	ND	176	88.0	200	0.633	
DRO >C10-C28*	13.9	10.0	11/15/2023	ND	170	85.2	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 29 (H236236-29)

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	11/15/2023	ND	1.92	96.2	2.00	1.92	
Toluene*	<0.050	0.050	11/15/2023	ND	1.87	93.3	2.00	6.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.3	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.84	97.4	6.00	10.2	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/16/2023	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	11/15/2023	ND	176	88.0	200	0.633	
DRO >C10-C28*	18.7	10.0	11/15/2023	ND	170	85.2	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 30 (H236236-30)

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	11/15/2023	ND	1.92	96.2	2.00	1.92	
Toluene*	<0.050	0.050	11/15/2023	ND	1.87	93.3	2.00	6.04	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.3	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.84	97.4	6.00	10.2	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/16/2023	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	11/17/2023	ND	176	88.0	200	0.633	
DRO >C10-C28*	127	10.0	11/17/2023	ND	170	85.2	200	1.99	
EXT DRO >C28-C36	21.8	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 31 (H236236-31)

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	11/16/2023	ND	1.92	96.2	2.00	1.92	
Toluene*	<0.050	0.050	11/16/2023	ND	1.87	93.3	2.00	6.04	
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	1.95	97.3	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/16/2023	ND	5.84	97.4	6.00	10.2	
Total BTEX	<0.300	0.300	11/16/2023	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	32.0	16.0	11/16/2023	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	11/15/2023	ND	172	86.1	200	0.169	
DRO >C10-C28*	150	10.0	11/15/2023	ND	190	94.8	200	0.569	
EXT DRO >C28-C36	42.6	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 32 (H236236-32)

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	11/15/2023	ND	2.10	105	2.00	6.63	
Toluene*	<0.050	0.050	11/15/2023	ND	1.97	98.6	2.00	11.9	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.09	104	2.00	15.2	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.13	102	6.00	17.0	
Total BTEX	<0.300	0.300	11/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	11/16/2023	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	11/15/2023	ND	172	86.1	200	0.169	
DRO >C10-C28*	133	10.0	11/15/2023	ND	190	94.8	200	0.569	
EXT DRO >C28-C36	38.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 33 (H236236-33)

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	11/15/2023	ND	2.10	105	2.00	6.63	
Toluene*	<0.050	0.050	11/15/2023	ND	1.97	98.6	2.00	11.9	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.09	104	2.00	15.2	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.13	102	6.00	17.0	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/16/2023	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	11/15/2023	ND	172	86.1	200	0.169	
DRO >C10-C28*	214	10.0	11/15/2023	ND	190	94.8	200	0.569	
EXT DRO >C28-C36	60.5	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 34 (H236236-34)

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	11/15/2023	ND	2.10	105	2.00	6.63	
Toluene*	<0.050	0.050	11/15/2023	ND	1.97	98.6	2.00	11.9	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.09	104	2.00	15.2	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.13	102	6.00	17.0	
Total BTEX	<0.300	0.300	11/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/16/2023	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	11/15/2023	ND	172	86.1	200	0.169	
DRO >C10-C28*	81.3	10.0	11/15/2023	ND	190	94.8	200	0.569	
EXT DRO >C28-C36	27.9	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 35 (H236236-35)

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	11/15/2023	ND	2.10	105	2.00	6.63	
Toluene*	<0.050	0.050	11/15/2023	ND	1.97	98.6	2.00	11.9	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.09	104	2.00	15.2	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.13	102	6.00	17.0	
Total BTEX	<0.300	0.300	11/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	11/16/2023	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	11/15/2023	ND	172	86.1	200	0.169	
DRO >C10-C28*	61.1	10.0	11/15/2023	ND	190	94.8	200	0.569	
EXT DRO >C28-C36	18.7	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 36 (H236236-36)

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	11/15/2023	ND	2.10	105	2.00	6.63	
Toluene*	<0.050	0.050	11/15/2023	ND	1.97	98.6	2.00	11.9	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.09	104	2.00	15.2	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.13	102	6.00	17.0	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/16/2023	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	11/15/2023	ND	172	86.1	200	0.169	
DRO >C10-C28*	142	10.0	11/15/2023	ND	190	94.8	200	0.569	
EXT DRO >C28-C36	37.7	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Analytical Results For:

Hungry Horse Environmental
 BRADLEY WELLS
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 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 37 (H236236-37)

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	11/15/2023	ND	2.10	105	2.00	6.63	
Toluene*	<0.050	0.050	11/15/2023	ND	1.97	98.6	2.00	11.9	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.09	104	2.00	15.2	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.13	102	6.00	17.0	
Total BTEX	<0.300	0.300	11/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	11/16/2023	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	11/15/2023	ND	172	86.1	200	0.169	
DRO >C10-C28*	98.5	10.0	11/15/2023	ND	190	94.8	200	0.569	
EXT DRO >C28-C36	29.6	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Analytical Results For:

Hungry Horse Environmental
 BRADLEY WELLS
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 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 38 (H236236-38)

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	11/15/2023	ND	2.10	105	2.00	6.63	
Toluene*	<0.050	0.050	11/15/2023	ND	1.97	98.6	2.00	11.9	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.09	104	2.00	15.2	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.13	102	6.00	17.0	
Total BTEX	<0.300	0.300	11/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/16/2023	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	11/15/2023	ND	172	86.1	200	0.169	
DRO >C10-C28*	95.9	10.0	11/15/2023	ND	190	94.8	200	0.569	
EXT DRO >C28-C36	29.4	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 39 (H236236-39)

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	11/15/2023	ND	2.10	105	2.00	6.63	
Toluene*	<0.050	0.050	11/15/2023	ND	1.97	98.6	2.00	11.9	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.09	104	2.00	15.2	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.13	102	6.00	17.0	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/16/2023	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	11/15/2023	ND	172	86.1	200	0.169	
DRO >C10-C28*	117	10.0	11/15/2023	ND	190	94.8	200	0.569	
EXT DRO >C28-C36	34.1	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 40 (H236236-40)

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	11/15/2023	ND	2.10	105	2.00	6.63	
Toluene*	<0.050	0.050	11/15/2023	ND	1.97	98.6	2.00	11.9	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.09	104	2.00	15.2	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.13	102	6.00	17.0	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/16/2023	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	11/15/2023	ND	172	86.1	200	0.169	
DRO >C10-C28*	128	10.0	11/15/2023	ND	190	94.8	200	0.569	
EXT DRO >C28-C36	37.4	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 41 (H236236-41)

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	11/15/2023	ND	2.10	105	2.00	6.63	
Toluene*	<0.050	0.050	11/15/2023	ND	1.97	98.6	2.00	11.9	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.09	104	2.00	15.2	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.13	102	6.00	17.0	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/16/2023	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	11/15/2023	ND	172	86.1	200	0.169	
DRO >C10-C28*	62.0	10.0	11/15/2023	ND	190	94.8	200	0.569	
EXT DRO >C28-C36	23.6	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 42 (H236236-42)

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	11/15/2023	ND	2.10	105	2.00	6.63	
Toluene*	<0.050	0.050	11/15/2023	ND	1.97	98.6	2.00	11.9	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.09	104	2.00	15.2	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.13	102	6.00	17.0	
Total BTEX	<0.300	0.300	11/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/16/2023	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	11/15/2023	ND	172	86.1	200	0.169	
DRO >C10-C28*	62.4	10.0	11/15/2023	ND	190	94.8	200	0.569	
EXT DRO >C28-C36	19.6	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 43 (H236236-43)

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	11/15/2023	ND	2.10	105	2.00	6.63	
Toluene*	<0.050	0.050	11/15/2023	ND	1.97	98.6	2.00	11.9	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.09	104	2.00	15.2	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.13	102	6.00	17.0	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/16/2023	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	11/15/2023	ND	172	86.1	200	0.169	
DRO >C10-C28*	71.6	10.0	11/15/2023	ND	190	94.8	200	0.569	
EXT DRO >C28-C36	24.4	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 44 (H236236-44)

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	11/15/2023	ND	2.10	105	2.00	6.63	
Toluene*	<0.050	0.050	11/15/2023	ND	1.97	98.6	2.00	11.9	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.09	104	2.00	15.2	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.13	102	6.00	17.0	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/16/2023	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	11/15/2023	ND	172	86.1	200	0.169	
DRO >C10-C28*	44.1	10.0	11/15/2023	ND	190	94.8	200	0.569	
EXT DRO >C28-C36	16.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

Hungry Horse Environmental
 BRADLEY WELLS
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 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 45 (H236236-45)

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	11/15/2023	ND	2.10	105	2.00	6.63	
Toluene*	<0.050	0.050	11/15/2023	ND	1.97	98.6	2.00	11.9	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.09	104	2.00	15.2	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.13	102	6.00	17.0	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/16/2023	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	11/15/2023	ND	172	86.1	200	0.169	
DRO >C10-C28*	51.7	10.0	11/15/2023	ND	190	94.8	200	0.569	
EXT DRO >C28-C36	17.5	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

Hungry Horse Environmental
 BRADLEY WELLS
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 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 46 (H236236-46)

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	11/15/2023	ND	2.10	105	2.00	6.63	
Toluene*	<0.050	0.050	11/15/2023	ND	1.97	98.6	2.00	11.9	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.09	104	2.00	15.2	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.13	102	6.00	17.0	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/16/2023	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	11/15/2023	ND	172	86.1	200	0.169	
DRO >C10-C28*	88.9	10.0	11/15/2023	ND	190	94.8	200	0.569	
EXT DRO >C28-C36	28.5	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Analytical Results For:

Hungry Horse Environmental
 BRADLEY WELLS
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 Hobbs NM, 88240
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Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 47 (H236236-47)

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	11/15/2023	ND	2.10	105	2.00	6.63	
Toluene*	<0.050	0.050	11/15/2023	ND	1.97	98.6	2.00	11.9	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.09	104	2.00	15.2	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.13	102	6.00	17.0	
Total BTEX	<0.300	0.300	11/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	11/16/2023	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	11/15/2023	ND	172	86.1	200	0.169	
DRO >C10-C28*	82.7	10.0	11/15/2023	ND	190	94.8	200	0.569	
EXT DRO >C28-C36	26.2	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 48 (H236236-48)

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	11/15/2023	ND	2.10	105	2.00	6.63	
Toluene*	<0.050	0.050	11/15/2023	ND	1.97	98.6	2.00	11.9	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.09	104	2.00	15.2	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.13	102	6.00	17.0	
Total BTEX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/16/2023	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	11/15/2023	ND	172	86.1	200	0.169	
DRO >C10-C28*	86.1	10.0	11/15/2023	ND	190	94.8	200	0.569	
EXT DRO >C28-C36	27.1	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 49 (H236236-49)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	2.10	105	2.00	6.63	
Toluene*	<0.050	0.050	11/15/2023	ND	1.97	98.6	2.00	11.9	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.09	104	2.00	15.2	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.13	102	6.00	17.0	
Total BTEX	<0.300	0.300	11/15/2023	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	11/17/2023	ND	432	108	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	11/15/2023	ND	172	86.1	200	0.169	
DRO >C10-C28*	62.6	10.0	11/15/2023	ND	190	94.8	200	0.569	
EXT DRO >C28-C36	20.6	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 50 (H236236-50)

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	11/15/2023	ND	2.10	105	2.00	6.63	
Toluene*	<0.050	0.050	11/15/2023	ND	1.97	98.6	2.00	11.9	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.09	104	2.00	15.2	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.13	102	6.00	17.0	
Total BTEX	<0.300	0.300	11/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	11/17/2023	ND	432	108	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	11/15/2023	ND	172	86.1	200	0.169	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	190	94.8	200	0.569	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 51 (H236236-51)

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	11/16/2023	ND	2.10	105	2.00	6.63	
Toluene*	<0.050	0.050	11/16/2023	ND	1.97	98.6	2.00	11.9	
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.09	104	2.00	15.2	
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.13	102	6.00	17.0	
Total BTEX	<0.300	0.300	11/16/2023	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	11/17/2023	ND	432	108	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	11/15/2023	ND	183	91.6	200	0.204	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	192	96.2	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 52 (H236236-52)

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	11/15/2023	ND	1.81	90.7	2.00	3.34	
Toluene*	<0.050	0.050	11/15/2023	ND	1.99	99.3	2.00	2.29	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.00	100	2.00	1.35	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.09	102	6.00	1.41	
Total BTEX	<0.300	0.300	11/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	11/17/2023	ND	432	108	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	11/15/2023	ND	183	91.6	200	0.204	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	192	96.2	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 53 (H236236-53)

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	11/15/2023	ND	1.81	90.7	2.00	3.34	
Toluene*	<0.050	0.050	11/15/2023	ND	1.99	99.3	2.00	2.29	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.00	100	2.00	1.35	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.09	102	6.00	1.41	
Total BTEX	<0.300	0.300	11/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	11/17/2023	ND	432	108	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	11/15/2023	ND	183	91.6	200	0.204	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	192	96.2	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 69.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.6 % 49.1-148

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Analytical Results For:

Hungry Horse Environmental
 BRADLEY WELLS
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 Fax To: (505) 391-4585

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 54 (H236236-54)

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	11/15/2023	ND	1.81	90.7	2.00	3.34	
Toluene*	<0.050	0.050	11/15/2023	ND	1.99	99.3	2.00	2.29	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.00	100	2.00	1.35	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.09	102	6.00	1.41	
Total BTEX	<0.300	0.300	11/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	11/17/2023	ND	432	108	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	11/15/2023	ND	183	91.6	200	0.204	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	192	96.2	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 49.1-148

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Analytical Results For:

Hungry Horse Environmental
 BRADLEY WELLS
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 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 55 (H236236-55)

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	11/15/2023	ND	1.81	90.7	2.00	3.34	
Toluene*	<0.050	0.050	11/15/2023	ND	1.99	99.3	2.00	2.29	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.00	100	2.00	1.35	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.09	102	6.00	1.41	
Total BTEX	<0.300	0.300	11/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	32.0	16.0	11/17/2023	ND	432	108	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	11/15/2023	ND	183	91.6	200	0.204	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	192	96.2	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.3 % 49.1-148

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Analytical Results For:

Hungry Horse Environmental
 BRADLEY WELLS
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 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 56 (H236236-56)

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	11/15/2023	ND	1.81	90.7	2.00	3.34	
Toluene*	<0.050	0.050	11/15/2023	ND	1.99	99.3	2.00	2.29	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.00	100	2.00	1.35	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.09	102	6.00	1.41	
Total BTEX	<0.300	0.300	11/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	11/17/2023	ND	432	108	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	11/15/2023	ND	183	91.6	200	0.204	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	192	96.2	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 76.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.5 % 49.1-148

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Analytical Results For:

Hungry Horse Environmental
 BRADLEY WELLS
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 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 57 (H236236-57)

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	11/15/2023	ND	1.81	90.7	2.00	3.34	
Toluene*	<0.050	0.050	11/15/2023	ND	1.99	99.3	2.00	2.29	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.00	100	2.00	1.35	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.09	102	6.00	1.41	
Total BTEX	<0.300	0.300	11/15/2023	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	11/17/2023	ND	432	108	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	11/15/2023	ND	183	91.6	200	0.204	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	192	96.2	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 77.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.8 % 49.1-148

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Analytical Results For:

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 BRADLEY WELLS
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 58 (H236236-58)

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	11/15/2023	ND	1.81	90.7	2.00	3.34	
Toluene*	<0.050	0.050	11/15/2023	ND	1.99	99.3	2.00	2.29	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.00	100	2.00	1.35	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.09	102	6.00	1.41	
Total BTEX	<0.300	0.300	11/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	32.0	16.0	11/17/2023	ND	432	108	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	11/15/2023	ND	183	91.6	200	0.204	
DRO >C10-C28*	34.2	10.0	11/15/2023	ND	192	96.2	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.4 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 59 (H236236-59)

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	11/15/2023	ND	1.81	90.7	2.00	3.34	
Toluene*	<0.050	0.050	11/15/2023	ND	1.99	99.3	2.00	2.29	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.00	100	2.00	1.35	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.09	102	6.00	1.41	
Total BTEX	<0.300	0.300	11/15/2023	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	16.0	16.0	11/17/2023	ND	432	108	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	11/15/2023	ND	183	91.6	200	0.204	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	192	96.2	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 67.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.3 % 49.1-148

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Analytical Results For:

Hungry Horse Environmental
 BRADLEY WELLS
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 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 60 (H236236-60)

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	11/15/2023	ND	1.81	90.7	2.00	3.34	
Toluene*	<0.050	0.050	11/15/2023	ND	1.99	99.3	2.00	2.29	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.00	100	2.00	1.35	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.09	102	6.00	1.41	
Total BTEX	<0.300	0.300	11/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	11/17/2023	ND	432	108	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	11/15/2023	ND	183	91.6	200	0.204	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	192	96.2	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 72.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 61 (H236236-61)

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	11/16/2023	ND	1.81	90.7	2.00	3.34	
Toluene*	<0.050	0.050	11/16/2023	ND	1.99	99.3	2.00	2.29	
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.00	100	2.00	1.35	
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.09	102	6.00	1.41	
Total BTEX	<0.300	0.300	11/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	32.0	16.0	11/17/2023	ND	432	108	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	11/15/2023	ND	183	91.6	200	0.204	
DRO >C10-C28*	67.8	10.0	11/15/2023	ND	192	96.2	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.6 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: SW 1 (H236236-62)

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	11/16/2023	ND	1.81	90.7	2.00	3.34		
Toluene*	<0.050	0.050	11/16/2023	ND	1.99	99.3	2.00	2.29		
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.00	100	2.00	1.35		
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.09	102	6.00	1.41		
Total BTEX	<0.300	0.300	11/16/2023	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	16.0	16.0	11/17/2023	ND	432	108	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	11/15/2023	ND	183	91.6	200	0.204		
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	192	96.2	200	2.03		
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND						

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: SW 2 (H236236-63)

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	11/16/2023	ND	1.81	90.7	2.00	3.34		
Toluene*	<0.050	0.050	11/16/2023	ND	1.99	99.3	2.00	2.29		
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.00	100	2.00	1.35		
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.09	102	6.00	1.41		
Total BTEX	<0.300	0.300	11/16/2023	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	16.0	16.0	11/17/2023	ND	432	108	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	11/15/2023	ND	183	91.6	200	0.204		
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	192	96.2	200	2.03		
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND						

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.0 % 49.1-148

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Analytical Results For:

Hungry Horse Environmental
 BRADLEY WELLS
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 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: SW 3 (H236236-64)

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	11/16/2023	ND	1.81	90.7	2.00	3.34	
Toluene*	<0.050	0.050	11/16/2023	ND	1.99	99.3	2.00	2.29	
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.00	100	2.00	1.35	
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.09	102	6.00	1.41	
Total BTEX	<0.300	0.300	11/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	11/17/2023	ND	432	108	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	11/15/2023	ND	183	91.6	200	0.204	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	192	96.2	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 74.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.5 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: SW 4 (H236236-65)

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	11/16/2023	ND	1.81	90.7	2.00	3.34	
Toluene*	<0.050	0.050	11/16/2023	ND	1.99	99.3	2.00	2.29	
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.00	100	2.00	1.35	
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.09	102	6.00	1.41	
Total BTEX	<0.300	0.300	11/16/2023	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	32.0	16.0	11/17/2023	ND	432	108	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	11/15/2023	ND	183	91.6	200	0.204	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	192	96.2	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: SW 5 (H236236-66)

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	11/16/2023	ND	1.81	90.7	2.00	3.34	
Toluene*	<0.050	0.050	11/16/2023	ND	1.99	99.3	2.00	2.29	
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.00	100	2.00	1.35	
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.09	102	6.00	1.41	
Total BTEX	<0.300	0.300	11/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	11/17/2023	ND	432	108	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	11/15/2023	ND	183	91.6	200	0.204	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	192	96.2	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 73.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.1 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: SW 6 (H236236-67)

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	11/16/2023	ND	1.81	90.7	2.00	3.34	
Toluene*	<0.050	0.050	11/16/2023	ND	1.99	99.3	2.00	2.29	
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.00	100	2.00	1.35	
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.09	102	6.00	1.41	
Total BTEX	<0.300	0.300	11/16/2023	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	16.0	16.0	11/17/2023	ND	432	108	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	11/15/2023	ND	183	91.6	200	0.204	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	192	96.2	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: SW 7 (H236236-68)

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	11/16/2023	ND	1.81	90.7	2.00	3.34	
Toluene*	<0.050	0.050	11/16/2023	ND	1.99	99.3	2.00	2.29	
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.00	100	2.00	1.35	
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.09	102	6.00	1.41	
Total BTEX	<0.300	0.300	11/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	11/17/2023	ND	432	108	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	11/15/2023	ND	183	91.6	200	0.204	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	192	96.2	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 74.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.5 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: SW 8 (H236236-69)

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	11/16/2023	ND	1.81	90.7	2.00	3.34	
Toluene*	<0.050	0.050	11/16/2023	ND	1.99	99.3	2.00	2.29	
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.00	100	2.00	1.35	
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.09	102	6.00	1.41	
Total BTEX	<0.300	0.300	11/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	11/16/2023	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	11/15/2023	ND	183	91.6	200	0.204	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	192	96.2	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.0 % 49.1-148

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: SW 9 (H236236-70)

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	11/16/2023	ND	1.81	90.7	2.00	3.34	
Toluene*	<0.050	0.050	11/16/2023	ND	1.99	99.3	2.00	2.29	
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.00	100	2.00	1.35	
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.09	102	6.00	1.41	
Total BTEX	<0.300	0.300	11/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	11/16/2023	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	11/15/2023	ND	183	91.6	200	0.204	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	192	96.2	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 73.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: SW 10 (H236236-71)

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	11/16/2023	ND	1.81	90.7	2.00	3.34	
Toluene*	<0.050	0.050	11/16/2023	ND	1.99	99.3	2.00	2.29	
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.00	100	2.00	1.35	
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.09	102	6.00	1.41	
Total BTEX	<0.300	0.300	11/16/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/16/2023	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	11/15/2023	ND	190	95.1	200	1.49	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	197	98.4	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: SW 11 (H236236-72)

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	11/16/2023	ND	2.01	100	2.00	1.86	
Toluene*	<0.050	0.050	11/16/2023	ND	2.12	106	2.00	1.12	
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.18	109	2.00	1.91	
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.67	111	6.00	2.81	
Total BTEX	<0.300	0.300	11/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	11/16/2023	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	11/15/2023	ND	190	95.1	200	1.49	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	197	98.4	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: SW 12 (H236236-73)

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	11/16/2023	ND	2.01	100	2.00	1.86	
Toluene*	<0.050	0.050	11/16/2023	ND	2.12	106	2.00	1.12	
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.18	109	2.00	1.91	
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.67	111	6.00	2.81	
Total BTEX	<0.300	0.300	11/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	11/16/2023	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	11/15/2023	ND	190	95.1	200	1.49	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	197	98.4	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: SW 13 (H236236-74)

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	11/16/2023	ND	2.01	100	2.00	1.86	
Toluene*	<0.050	0.050	11/16/2023	ND	2.12	106	2.00	1.12	
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.18	109	2.00	1.91	
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.67	111	6.00	2.81	
Total BTEX	<0.300	0.300	11/16/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/16/2023	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	11/15/2023	ND	190	95.1	200	1.49	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	197	98.4	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: SW 14 (H236236-75)

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	11/16/2023	ND	2.01	100	2.00	1.86	
Toluene*	<0.050	0.050	11/16/2023	ND	2.12	106	2.00	1.12	
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.18	109	2.00	1.91	
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.67	111	6.00	2.81	
Total BTEX	<0.300	0.300	11/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	11/16/2023	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	11/15/2023	ND	190	95.1	200	1.49	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	197	98.4	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: SW 15 (H236236-76)

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	11/16/2023	ND	2.01	100	2.00	1.86	
Toluene*	<0.050	0.050	11/16/2023	ND	2.12	106	2.00	1.12	
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.18	109	2.00	1.91	
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.67	111	6.00	2.81	
Total BTEX	<0.300	0.300	11/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	11/16/2023	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	11/15/2023	ND	190	95.1	200	1.49	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	197	98.4	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 51.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 56.8 % 49.1-148

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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: SW 16 (H236236-77)

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	11/16/2023	ND	2.01	100	2.00	1.86	
Toluene*	<0.050	0.050	11/16/2023	ND	2.12	106	2.00	1.12	
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.18	109	2.00	1.91	
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.67	111	6.00	2.81	
Total BTEX	<0.300	0.300	11/16/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/16/2023	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	11/15/2023	ND	190	95.1	200	1.49	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	197	98.4	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 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
 BRADLEY WELLS
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: HZ 1B - SURF (H236236-78)

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	11/16/2023	ND	2.01	100	2.00	1.86	
Toluene*	<0.050	0.050	11/16/2023	ND	2.12	106	2.00	1.12	
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.18	109	2.00	1.91	
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.67	111	6.00	2.81	
Total BTEX	<0.300	0.300	11/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	11/16/2023	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	11/15/2023	ND	190	95.1	200	1.49	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	197	98.4	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 75.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/14/2023	Sampling Date:	11/14/2023
Reported:	11/17/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: HZ 1B - 1' (H236236-79)

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	11/16/2023	ND	2.01	100	2.00	1.86	
Toluene*	<0.050	0.050	11/16/2023	ND	2.12	106	2.00	1.12	
Ethylbenzene*	<0.050	0.050	11/16/2023	ND	2.18	109	2.00	1.91	
Total Xylenes*	<0.150	0.150	11/16/2023	ND	6.67	111	6.00	2.81	
Total BTEX	<0.300	0.300	11/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	11/16/2023	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	11/15/2023	ND	190	95.1	200	1.49	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	197	98.4	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Hungry Horse LLC
Project Manager: Bradley Wells
Address: PO Box 1058
City: Hobbs State: NM Zip: 88241
Phone #: 575 393-3386 Fax #:
Project #: Project Owner: Grand Banks Energy Co
Project Name: ARU #4
Project Location: UL/ B Sec 11 T16S - R32E
Sampler Name: Bradley Wells

Table with columns: Lab I.D., Sample I.D., (G)RAB OR (C)OMP., # CONTAINERS, MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV. (ACID/BASE, ICE / COOL, OTHER), SAMPLING (DATE, TIME), Chloride, TPH, BTEX 8021. Rows 1-10 with handwritten numbers 1-10.

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Relinquished By: [Signature] Date: 11-14-23 Time: 1615
Received By: [Signature]
Phone Result: [] Yes [] No Add'l Phone #:
Fax Result: [] Yes [] No Add'l Fax #:
REMARKS: Email results to: pm@hungry-horse.com jason.wacker@octane-energy.com
Delivered By: (Circle One) #140
Sampler - UPS - Bus - Other: -1.2c
Sample Condition: Cool Intact [] Yes [] No [] Yes [] No
CHECKED BY: (Initials) J.O.

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Hungry Horse LLC
Project Manager: Bradley Wells
Address: PO Box 1058
City: Hobbs State: NM Zip: 88241
Phone #: 575 393-3386 Fax #:
Project #: Project Owner: Grand Banks Energy Co
Project Name: ARU #4
Project Location: UL/ B Sec 11 T16S - R32E
Sampler Name: Bradley Wells

Table with columns: Lab I.D., Sample I.D., (G)RAB OR (C)OMP., # CONTAINERS, MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV. (ACID/BASE, ICE / COOL, OTHER), SAMPLING (DATE, TIME), Chloride, TPH, BTEX 8021. Rows 11-20.

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Relinquished By: [Signature] Date: 11-14-23 Time: 7:05
Received By: [Signature]
Phone Result: [] Yes [] No Add'l Phone #:
Fax Result: [] Yes [] No Add'l Fax #:
REMARKS: Email results to: pm@hungry-horse.com jason.wacker@octane-energy.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -1.2c #140
Sample Condition Cool Intact [] Yes [] No [] Yes [] No
CHECKED BY: (Initials) [Signature]

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Hungry Horse LLC
Project Manager: Bradley Wells
Address: PO Box 1058
City: Hobbs State: NM Zip: 88241
Phone #: 575 393-3386 Fax #:
Project #: Project Owner: Grand Banks Energy Co
Project Name: ARU #4
Project Location: UL/ B Sec 11 T16S - R32E
Sampler Name: Bradley Wells

Table with columns: Lab I.D., Sample I.D., (G)RAB OR (C)OMP, # CONTAINERS, MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV. (ACID/BASE, ICE / COOL, OTHER), SAMPLING (DATE, TIME), Chloride, TPH, BTEX 8021. Rows 21-30.

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Relinquished By: B. Wells Date: 11-14-23 Time: 1615
Received By: [Signature]
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -1.2c
Sample Condition: Cool Intact [checked]
CHECKED BY: [Signature]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Hungry Horse LLC
Project Manager: Bradley Wells
Address: PO Box 1058
City: Hobbs State: NM Zip: 88241
Phone #: 575 393-3386 Fax #:
Project #: Project Owner: Grand Banks Energy Co
Project Name: ARU #4
Project Location: UL/ B Sec 11 T16S - R32E
Sampler Name: Bradley Wells

Table with columns: Lab I.D., Sample I.D., (G)RAB OR (C)OMP., # CONTAINERS, MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV. (ACID/BASE, ICE / COOL, OTHER), SAMPLING (DATE, TIME), Chloride, TPH, BTEX 8021. Rows 31-40.

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.

Relinquished By: [Signature] Date: 11-14-23 Time: 1615
Received By: [Signature]
Phone Result: [] Yes [] No Add'l Phone #:
Fax Result: [] Yes [] No Add'l Fax #:
REMARKS: Email results to: pm@hungry-horse.com jason.wacker@octane-energy.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -1.2c #140
Sample Condition Cool Intact [] Yes [] No [] Yes [] No
CHECKED BY: (Initials) jo.

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Hungry Horse LLC		BILL TO				ANALYSIS REQUEST											
Project Manager: Bradley Wells		P.O. #:															
Address: PO Box 1058		Company: Grand Banks Energy Co															
City: Hobbs	State: NM	Zip: 88241	Attn: Jason Wacker														
Phone #: 575 393-3386	Fax #:		Address: PO Box 272														
Project #:	Project Owner: Grand Banks Energy Co		City: Midland														
Project Name: ARU #4	State: TX		Zip: 79702														
Project Location: UL/ B Sec 11 T16S - R32E	Phone #: 432-631-2142																
Sampler Name: Bradley Wells	Fax #:																
FOR LAB USE ONLY				MATRIX									PRESERV.		SAMPLING		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER								SOIL	OIL	SLUDGE	OTHER :	ACID/BASE
H236236																	
71	SW10	C	1			X					X		11/14/23		X	X	X
72	SW11	C	1			X					X		11/14/23		X	X	X
73	SW12	C	1			X					X		11/14/23		X	X	X
74	SW13	C	1			X					X		11/14/23		X	X	X
75	SW14	C	1			X					X		11/14/23		X	X	X
76	SW15	C	1			X					X		11/14/23		X	X	X
77	SW16	C	1			X					X		11/14/23		X	X	X
78	H21b - surf	C	1			X					X		11/14/23		X	X	X
79	H21b - 1'	C	1			X					X		11/14/23		X	X	X

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Relinquished By: <i>B. Wells</i>	Date: 11-14-23	Received By: <i>Jason Wacker</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1615		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		Email results to: pm@hungry-horse.com	
			jason.wacker@octane-energy.com	
Delivered By: (Circle One)	#140	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: -1.20		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>Jo</i>	

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



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

December 19, 2023

BRADLEY WELLS

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: ARU #4

Enclosed are the results of analyses for samples received by the laboratory on 12/14/23 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/19/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	GRAND BANKS	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 5 B - 2.5' (H236677-01)

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	12/14/2023	ND	2.21	111	2.00	0.605	
Toluene*	<0.050	0.050	12/14/2023	ND	2.18	109	2.00	0.231	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	2.16	108	2.00	0.156	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	6.79	113	6.00	0.678	
Total BTEX	<0.300	0.300	12/14/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/15/2023	ND	432	108	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	12/15/2023	ND	166	83.1	200	10.9	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	157	78.6	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/19/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	GRAND BANKS	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 6 B - 2.5' (H236677-02)

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	12/14/2023	ND	2.21	111	2.00	0.605	
Toluene*	<0.050	0.050	12/14/2023	ND	2.18	109	2.00	0.231	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	2.16	108	2.00	0.156	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	6.79	113	6.00	0.678	
Total BTEX	<0.300	0.300	12/14/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/15/2023	ND	432	108	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	12/15/2023	ND	166	83.1	200	10.9	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	157	78.6	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

Cardinal Laboratories

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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
 BRADLEY WELLS
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/19/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	GRAND BANKS	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 7 B - 2.5' (H236677-03)

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	12/14/2023	ND	2.21	111	2.00	0.605	
Toluene*	<0.050	0.050	12/14/2023	ND	2.18	109	2.00	0.231	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	2.16	108	2.00	0.156	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	6.79	113	6.00	0.678	
Total BTEX	<0.300	0.300	12/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	48.0	16.0	12/15/2023	ND	432	108	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	12/15/2023	ND	166	83.1	200	10.9	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	157	78.6	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Analytical Results For:

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

Received:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/19/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	GRAND BANKS	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 8 - 2.5' (H236677-04)

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	12/14/2023	ND	2.21	111	2.00	0.605	
Toluene*	<0.050	0.050	12/14/2023	ND	2.18	109	2.00	0.231	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	2.16	108	2.00	0.156	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	6.79	113	6.00	0.678	
Total BTEX	<0.300	0.300	12/14/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/15/2023	ND	432	108	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	12/15/2023	ND	166	83.1	200	10.9	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	157	78.6	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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Analytical Results For:

Hungry Horse Environmental
 BRADLEY WELLS
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 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/19/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	GRAND BANKS	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 11 - 2.5' (H236677-05)

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	12/14/2023	ND	2.21	111	2.00	0.605	
Toluene*	<0.050	0.050	12/14/2023	ND	2.18	109	2.00	0.231	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	2.16	108	2.00	0.156	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	6.79	113	6.00	0.678	
Total BTEX	<0.300	0.300	12/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	48.0	16.0	12/15/2023	ND	432	108	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	12/14/2023	ND	208	104	200	1.35	
DRO >C10-C28*	<10.0	10.0	12/14/2023	ND	206	103	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	12/14/2023	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

Hungry Horse Environmental
 BRADLEY WELLS
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 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/19/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	GRAND BANKS	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 12 - 2.5' (H236677-06)

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	12/14/2023	ND	2.21	111	2.00	0.605	
Toluene*	<0.050	0.050	12/14/2023	ND	2.18	109	2.00	0.231	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	2.16	108	2.00	0.156	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	6.79	113	6.00	0.678	
Total BTEX	<0.300	0.300	12/14/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/15/2023	ND	432	108	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	12/14/2023	ND	208	104	200	1.35	
DRO >C10-C28*	<10.0	10.0	12/14/2023	ND	206	103	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	12/14/2023	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/19/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	GRAND BANKS	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 13 - 2.5' (H236677-07)

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	12/14/2023	ND	2.21	111	2.00	0.605	
Toluene*	<0.050	0.050	12/14/2023	ND	2.18	109	2.00	0.231	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	2.16	108	2.00	0.156	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	6.79	113	6.00	0.678	
Total BTEX	<0.300	0.300	12/14/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/15/2023	ND	432	108	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	12/14/2023	ND	208	104	200	1.35	
DRO >C10-C28*	<10.0	10.0	12/14/2023	ND	206	103	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	12/14/2023	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 49.1-148

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Analytical Results For:

Hungry Horse Environmental
 BRADLEY WELLS
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 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/19/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	GRAND BANKS	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 14 - 2.5' (H236677-08)

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	12/14/2023	ND	2.21	111	2.00	0.605	
Toluene*	<0.050	0.050	12/14/2023	ND	2.18	109	2.00	0.231	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	2.16	108	2.00	0.156	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	6.79	113	6.00	0.678	
Total BTEX	<0.300	0.300	12/14/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/15/2023	ND	432	108	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	12/14/2023	ND	208	104	200	1.35	
DRO >C10-C28*	<10.0	10.0	12/14/2023	ND	206	103	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	12/14/2023	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

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

Received:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/19/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	GRAND BANKS	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 15 - 2.5' (H236677-09)

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	12/14/2023	ND	2.21	111	2.00	0.605	
Toluene*	<0.050	0.050	12/14/2023	ND	2.18	109	2.00	0.231	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	2.16	108	2.00	0.156	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	6.79	113	6.00	0.678	
Total BTEX	<0.300	0.300	12/14/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/15/2023	ND	432	108	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	12/14/2023	ND	208	104	200	1.35	
DRO >C10-C28*	<10.0	10.0	12/14/2023	ND	206	103	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	12/14/2023	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

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Analytical Results For:

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

Received:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/19/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	GRAND BANKS	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 16 - 2.5' (H236677-10)

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	12/14/2023	ND	2.21	111	2.00	0.605	
Toluene*	<0.050	0.050	12/14/2023	ND	2.18	109	2.00	0.231	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	2.16	108	2.00	0.156	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	6.79	113	6.00	0.678	
Total BTEX	<0.300	0.300	12/14/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/15/2023	ND	432	108	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	12/14/2023	ND	208	104	200	1.35	
DRO >C10-C28*	<10.0	10.0	12/14/2023	ND	206	103	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	12/14/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

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

Received:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/19/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	GRAND BANKS	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 17 B - 2.5' (H236677-11)

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	12/14/2023	ND	2.21	111	2.00	0.605	
Toluene*	<0.050	0.050	12/14/2023	ND	2.18	109	2.00	0.231	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	2.16	108	2.00	0.156	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	6.79	113	6.00	0.678	
Total BTEX	<0.300	0.300	12/14/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/15/2023	ND	432	108	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	12/14/2023	ND	208	104	200	1.35	
DRO >C10-C28*	<10.0	10.0	12/14/2023	ND	206	103	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	12/14/2023	ND					

Surrogate: 1-Chlorooctane 87.8 % 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
 BRADLEY WELLS
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/19/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	GRAND BANKS	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 18 B - 2.5' (H236677-12)

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	12/14/2023	ND	2.21	111	2.00	0.605	
Toluene*	<0.050	0.050	12/14/2023	ND	2.18	109	2.00	0.231	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	2.16	108	2.00	0.156	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	6.79	113	6.00	0.678	
Total BTEX	<0.300	0.300	12/14/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/15/2023	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	12/14/2023	ND	208	104	200	1.35	
DRO >C10-C28*	<10.0	10.0	12/14/2023	ND	206	103	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	12/14/2023	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

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

Received:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/19/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	GRAND BANKS	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 30 B - 2.5' (H236677-13)

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	12/14/2023	ND	2.21	111	2.00	0.605	
Toluene*	<0.050	0.050	12/14/2023	ND	2.18	109	2.00	0.231	
Ethylbenzene*	<0.050	0.050	12/14/2023	ND	2.16	108	2.00	0.156	
Total Xylenes*	<0.150	0.150	12/14/2023	ND	6.79	113	6.00	0.678	
Total BTEX	<0.300	0.300	12/14/2023	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	64.0	16.0	12/15/2023	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	12/14/2023	ND	208	104	200	1.35	
DRO >C10-C28*	<10.0	10.0	12/14/2023	ND	206	103	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	12/14/2023	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 49.1-148

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Analytical Results For:

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

Received:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/19/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	GRAND BANKS	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 31 - 2.5' (H236677-14)

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	12/15/2023	ND	1.78	88.8	2.00	19.6	
Toluene*	<0.050	0.050	12/15/2023	ND	1.74	87.1	2.00	19.8	
Ethylbenzene*	<0.050	0.050	12/15/2023	ND	1.72	85.8	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/15/2023	ND	5.59	93.2	6.00	17.7	
Total BTEX	<0.300	0.300	12/15/2023	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	32.0	16.0	12/15/2023	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	12/14/2023	ND	208	104	200	1.35	
DRO >C10-C28*	<10.0	10.0	12/14/2023	ND	206	103	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	12/14/2023	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

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

Received:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/19/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	GRAND BANKS	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 32 - 2.5' (H236677-15)

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	12/15/2023	ND	1.78	88.8	2.00	19.6		
Toluene*	<0.050	0.050	12/15/2023	ND	1.74	87.1	2.00	19.8		
Ethylbenzene*	<0.050	0.050	12/15/2023	ND	1.72	85.8	2.00	20.2		
Total Xylenes*	<0.150	0.150	12/15/2023	ND	5.59	93.2	6.00	17.7		
Total BTEX	<0.300	0.300	12/15/2023	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	64.0	16.0	12/15/2023	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	12/14/2023	ND	208	104	200	1.35		
DRO >C10-C28*	<10.0	10.0	12/14/2023	ND	206	103	200	1.95		
EXT DRO >C28-C36	<10.0	10.0	12/14/2023	ND						

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

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

Received:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/19/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	GRAND BANKS	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 33 - 2.5' (H236677-16)

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	12/15/2023	ND	1.78	88.8	2.00	19.6	
Toluene*	<0.050	0.050	12/15/2023	ND	1.74	87.1	2.00	19.8	
Ethylbenzene*	<0.050	0.050	12/15/2023	ND	1.72	85.8	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/15/2023	ND	5.59	93.2	6.00	17.7	
Total BTEX	<0.300	0.300	12/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/15/2023	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	12/14/2023	ND	208	104	200	1.35	
DRO >C10-C28*	<10.0	10.0	12/14/2023	ND	206	103	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	12/14/2023	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Analytical Results For:

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

Received:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/19/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	GRAND BANKS	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 34 - 2.5' (H236677-17)

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	12/15/2023	ND	1.78	88.8	2.00	19.6	
Toluene*	<0.050	0.050	12/15/2023	ND	1.74	87.1	2.00	19.8	
Ethylbenzene*	<0.050	0.050	12/15/2023	ND	1.72	85.8	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/15/2023	ND	5.59	93.2	6.00	17.7	
Total BTEX	<0.300	0.300	12/15/2023	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	48.0	16.0	12/15/2023	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	12/14/2023	ND	208	104	200	1.35	
DRO >C10-C28*	<10.0	10.0	12/14/2023	ND	206	103	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	12/14/2023	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

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

Received:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/19/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	GRAND BANKS	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 36 - 2.5' (H236677-18)

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	12/15/2023	ND	1.78	88.8	2.00	19.6	
Toluene*	<0.050	0.050	12/15/2023	ND	1.74	87.1	2.00	19.8	
Ethylbenzene*	<0.050	0.050	12/15/2023	ND	1.72	85.8	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/15/2023	ND	5.59	93.2	6.00	17.7	
Total BTEX	<0.300	0.300	12/15/2023	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	64.0	16.0	12/15/2023	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	12/14/2023	ND	208	104	200	1.35	
DRO >C10-C28*	<10.0	10.0	12/14/2023	ND	206	103	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	12/14/2023	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/19/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	GRAND BANKS	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 37 - 2.5' (H236677-19)

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	12/15/2023	ND	1.78	88.8	2.00	19.6	
Toluene*	<0.050	0.050	12/15/2023	ND	1.74	87.1	2.00	19.8	
Ethylbenzene*	<0.050	0.050	12/15/2023	ND	1.72	85.8	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/15/2023	ND	5.59	93.2	6.00	17.7	
Total BTEX	<0.300	0.300	12/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/15/2023	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	12/14/2023	ND	208	104	200	1.35	
DRO >C10-C28*	<10.0	10.0	12/14/2023	ND	206	103	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	12/14/2023	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/19/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	GRAND BANKS	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 38 - 2.5' (H236677-20)

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	12/15/2023	ND	1.78	88.8	2.00	19.6	
Toluene*	<0.050	0.050	12/15/2023	ND	1.74	87.1	2.00	19.8	
Ethylbenzene*	<0.050	0.050	12/15/2023	ND	1.72	85.8	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/15/2023	ND	5.59	93.2	6.00	17.7	
Total BTEX	<0.300	0.300	12/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/15/2023	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	12/15/2023	ND	208	104	200	1.35	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	206	103	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 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
 BRADLEY WELLS
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/19/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	GRAND BANKS	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 39 B - 2.5' (H236677-21)

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	12/15/2023	ND	1.78	88.8	2.00	19.6	
Toluene*	<0.050	0.050	12/15/2023	ND	1.74	87.1	2.00	19.8	
Ethylbenzene*	<0.050	0.050	12/15/2023	ND	1.72	85.8	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/15/2023	ND	5.59	93.2	6.00	17.7	
Total BTEX	<0.300	0.300	12/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/15/2023	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	12/15/2023	ND	208	104	200	1.35	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	206	103	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 85.9 % 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
 BRADLEY WELLS
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/19/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	GRAND BANKS	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 40 B - 2.5' (H236677-22)

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	12/15/2023	ND	1.78	88.8	2.00	19.6	
Toluene*	<0.050	0.050	12/15/2023	ND	1.74	87.1	2.00	19.8	
Ethylbenzene*	<0.050	0.050	12/15/2023	ND	1.72	85.8	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/15/2023	ND	5.59	93.2	6.00	17.7	
Total BTEX	<0.300	0.300	12/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/15/2023	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	12/15/2023	ND	208	104	200	1.35	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	206	103	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 92.9 % 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
 BRADLEY WELLS
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/19/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	GRAND BANKS	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 46 B - 2.5' (H236677-23)

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	12/15/2023	ND	1.78	88.8	2.00	19.6	
Toluene*	<0.050	0.050	12/15/2023	ND	1.74	87.1	2.00	19.8	
Ethylbenzene*	<0.050	0.050	12/15/2023	ND	1.72	85.8	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/15/2023	ND	5.59	93.2	6.00	17.7	
Total BTEX	<0.300	0.300	12/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/15/2023	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	12/15/2023	ND	208	104	200	1.35	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	206	103	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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
 BRADLEY WELLS
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/19/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	GRAND BANKS	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 47 B - 2.5' (H236677-24)

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	12/15/2023	ND	1.78	88.8	2.00	19.6	
Toluene*	<0.050	0.050	12/15/2023	ND	1.74	87.1	2.00	19.8	
Ethylbenzene*	<0.050	0.050	12/15/2023	ND	1.72	85.8	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/15/2023	ND	5.59	93.2	6.00	17.7	
Total BTEX	<0.300	0.300	12/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/15/2023	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	12/15/2023	ND	208	104	200	1.35	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	206	103	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 85.6 % 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
 BRADLEY WELLS
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	12/14/2023	Sampling Date:	12/14/2023
Reported:	12/19/2023	Sampling Type:	Soil
Project Name:	ARU #4	Sampling Condition:	Cool & Intact
Project Number:	GRAND BANKS	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / B SEC 11 T16S - R32E		

Sample ID: FL 48 B - 2.5' (H236677-25)

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	12/15/2023	ND	1.78	88.8	2.00	19.6	
Toluene*	<0.050	0.050	12/15/2023	ND	1.74	87.1	2.00	19.8	
Ethylbenzene*	<0.050	0.050	12/15/2023	ND	1.72	85.8	2.00	20.2	
Total Xylenes*	<0.150	0.150	12/15/2023	ND	5.59	93.2	6.00	17.7	
Total BTEX	<0.300	0.300	12/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/15/2023	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	12/15/2023	ND	214	107	200	2.79	
DRO >C10-C28*	<10.0	10.0	12/15/2023	ND	196	97.9	200	0.491	
EXT DRO >C28-C36	<10.0	10.0	12/15/2023	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.2 % 49.1-148

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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
A-01 CCV failed high. All samples ND. Data not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Hungry Horse LLC
Project Manager: Bradley Wells
Address: PO Box 1058
City: Hobbs State: NM Zip: 88241
Phone #: 575 393-3386 Fax #:
Project #: Project Owner: Grand Banks Energy Co
Project Name: ARU #4
Project Location: UL/ B Sec 11 T16S - R32E
Sampler Name: Jerry Heidelberg
BILL TO: P.O. #: Company: Grand Banks Energy Co
Attn: Jason Wacker
Address: PO Box 272
City: Midland
State: TX Zip: 79702
Phone #: 432-631-2142
FAX #:
ANALYSIS REQUEST table with columns: Lab I.D., Sample I.D., (G)RAB OR (C)OMP., # CONTAINERS, MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV. (ACID/BASE, ICE / COOL, OTHER), SAMPLING (DATE, TIME), Chloride, TPH, BTEX 8021

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Relinquished By: [Signature] Date: 12-14-23 Time: 1410
Received By: [Signature]
Phone Result: Yes No Add'l Phone #:
Fax Result: Yes No Add'l Fax #:
REMARKS: Email results to: pm@hungry-horse.com jason.wacker@octane-energy.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 3.9c #140
Sample Condition: Cool Intact Yes No
CHECKED BY: (Initials) [Signature]

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Hungry Horse LLC; Project Manager: Bradley Wells; Address: PO Box 1058; City: Hobbs; State: NM; Zip: 88241; Project Name: ARU #4; Project Location: UL/ B Sec 11 T16S - R32E; Sampler Name: Jerry Heidelberg; BILL TO; ANALYSIS REQUEST table with columns for Lab I.D., Sample I.D., MATRIX, PRESERV., SAMPLING, Chloride, TPH, BTEX 8021.

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.

Relinquished By: [Signature]; Date: 12-14-23; Time: 1410; Received By: [Signature]; Date: [Blank]; Time: [Blank]; Delivered By: (Circle One) 39; Sampler - UPS - Bus - Other: #140; Sample Condition: Cool Intact; CHECKED BY: [Signature]; Phone Result: [Blank]; Fax Result: [Blank]; REMARKS: Email results to: pm@hungry-horse.com; jason.wacker@octane-energy.com

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

Attachment VII
NMSLO Approved Seed Mix

NMSLO Seed Mix**Coarse (CS)****COARSE (CS) SITES SEED MIXTURE:**

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Sand bluestem	VNS, Southern	2.0	F
Sideoats grama	Vaughn, El Reno	2.0	F
Blue grama	Hachita, Lovington	1.5	D
Little bluestem	Cimmaron, Pastura	1.5	F
Sand dropseed	VNS, Southern	1.0	S
Plains bristlegrass	VNS, Southern	0.75	D
Forbs:			
Parry penstemon	VNS, Southern	1.0	D
Desert globemallow	VNS, Southern	1.0	D
White prairieclover	Kaneb, VNS	0.5	D
Sulfur buckwheat	VNS, Southern	0.5	D
Shrubs:			
Fourwing saltbush	VNS, Southern	1.0	D
Skunkbush sumac	VNS, Southern	1.0	D
Common winterfat	VNS, Southern	1.0	F
Fringed sagewort	VNS, Southern	0.5	F
Total PLS/acre		18.25	

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

- VNS, Southern – No Variety Stated, seed should be from a southern latitude collection of this species.
- Double above seed rates for broadcast or hydroseeding.
- If Parry is not available, substitute firecracker penstemon.
- If desert globemallow is not available, substitute scarlet globemallow.
- If one species is not available, provide a suggested substitute to the New Mexico Land Office for approval. Increasing all other species proportionately may be acceptable.



**Attachment VIII
NMOCD Form Initial C-141**

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2329041834
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Grand Banks Energy Co	OGRID	155471
Contact Name	Jason Wacker	Contact Telephone	432-631-2142
Contact email	jason.wacker@octane-energy.com	Incident #	(assigned by OCD)
Contact mailing address	PO Box 272, Midland, TX 79702		

Location of Release Source

Latitude 32.940186 _____ Longitude -103.736002 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	ARU #4	Site Type	Flowline
Date Release Discovered	10-11-23	API#	(if applicable)

Unit Letter	Section	Township	Range	County
B	11	16S	32E	Lea

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	10.5	Volume Recovered (bbls)	0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls)	4.5	Volume Recovered (bbls)	0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<input type="checkbox"/> Condensate	Volume Released (bbls)		Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)		Volume/Weight Recovered (provide units)	

Cause of Release
Lightning strike caused poly flowline to crack releasing oil and water.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2329041834
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
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.
Printed Name: <u>Socorro Henry</u> Title: <u>Regulatory Analyst</u> Signature: <u>Socorro Hendry</u> Date: <u>10-17-2023</u> email: <u>socorro.hendry@octane-energy.com</u> Telephone: <u>432-685-7736</u>
<u>OCD Only</u> Received by: <u>Shelly Wells</u> Date: <u>10/17/2023</u>

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Santa Fe, NM 87505

QUESTIONS

Action 305437

QUESTIONS

Operator: GRAND BANKS ENERGY CO 10 Desta Drive Midland, TX 79705	OGRID: 155471
	Action Number: 305437
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2329041834
Incident Name	NAPP2329041834 ARU #4 @ 30-025-00386
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-00386] ANDERSON RANCH UNIT #004

Location of Release Source

Please answer all the questions in this group.

Site Name	ARU #4
Date Release Discovered	10/11/2023
Surface Owner	State

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: Lightning Flow Line - Production Crude Oil Released: 10 BBL Recovered: 0 BBL Lost: 10 BBL.
Produced Water Released (bbls) Details	Cause: Lightning Flow Line - Production Produced Water Released: 5 BBL Recovered: 0 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 305437

QUESTIONS (continued)

Operator: GRAND BANKS ENERGY CO 10 Desta Drive Midland, TX 79705	OGRID: 155471
	Action Number: 305437
	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	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Socorro Hendry Title: Regulatory Manager Email: socorro.hendry@octane-energy.com Date: 01/19/2024
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QUESTIONS (continued)

Operator: GRAND BANKS ENERGY CO 10 Desta Drive Midland, TX 79705	OGRID: 155471
	Action Number: 305437
	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 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	41200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	2740
GRO+DRO (EPA SW-846 Method 8015M)	1660
BTEX (EPA SW-846 Method 8021B or 8260B)	0.3
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1

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	10/30/2023
On what date will (or did) the final sampling or liner inspection occur	12/14/2023
On what date will (or was) the remediation complete(d)	01/05/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	12200
What is the estimated volume (in cubic yards) that will be remediated	1000

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 305437

QUESTIONS (continued)

Operator: GRAND BANKS ENERGY CO 10 Desta Drive Midland, TX 79705	OGRID: 155471
	Action Number: 305437
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	GANDY MARLEY LANDFARM/LANDFILL [FEEM0112338393]
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)	Yes
Other Non-listed Remedial Process. Please specify	Based upon laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally sourced, clean, non-impacted topsoil. The affected area was contoured and/or compacted to achieve erosion control, surface stability, and preserve surface water flow. The affected area will be scarified to aid with infiltration, overall success of seed germination, and plant establishment. The affected area will then be seeded, via hand broadcast at double the recommended rate, with an NMSLO approved seed mixture, free of noxious weeds, during the first favorable growing season following these completed remediation activities. Site will also be monitored for growth and noxious weed management on a semi-annual basis until desired vegetation is achieved. NMSLO approved seed mix is provided as Attachment VII.

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

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

I hereby agree and sign off to the above statement	Name: Socorro Hendry Title: Regulatory Manager Email: socorro.hendry@octane-energy.com Date: 01/22/2024
--	--

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

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QUESTIONS, Page 5

Action 305437

QUESTIONS (continued)

Operator: GRAND BANKS ENERGY CO 10 Desta Drive Midland, TX 79705	OGRID: 155471
	Action Number: 305437
	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 305437

QUESTIONS (continued)

Operator: GRAND BANKS ENERGY CO 10 Desta Drive Midland, TX 79705	OGRID: 155471
	Action Number: 305437
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	293031
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/14/2023
What was the (estimated) number of samples that were to be gathered	26
What was the sampling surface area in square feet	5200

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	12200
What was the total volume (cubic yards) remediated	1000
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.

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: Socorro Hendry Title: Regulatory Manager Email: socorro.hendry@octane-energy.com Date: 01/22/2024
--	--

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QUESTIONS, Page 7

Action 305437

QUESTIONS (continued)

Operator: GRAND BANKS ENERGY CO 10 Desta Drive Midland, TX 79705	OGRID: 155471
	Action Number: 305437
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 305437

CONDITIONS

Operator: GRAND BANKS ENERGY CO 10 Desta Drive Midland, TX 79705	OGRID: 155471
	Action Number: 305437
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	3/27/2024