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Final Closure Report

Grand Banks Energy Co
Anderson Ranch Unit #14
Lea County, New Mexico
Unit Letter "Q", Lot 1, Section 2, Township 16 South, Range 32 East
Latitude 32.94858 North, Longitude 103.73068 West
NMOCD Incident # NAPP2035233416
API# 30-025-00365

Prepared For:

Grand Banks Energy Co.
P.O. Box 272
Midland, TX 79702

Prepared By:

Hungry Horse, LLC
4024 Plains Hwy
Lovington, NM 88260

March 2021

Lindsey Nevels
Project Manager

Daniel Dominguez
Sr. Project Manager

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HUNGRY HORSE, LLC

The following *Final Closure Report* serves as a condensed update on field activities undertaken at the afore referenced Site.

Background:

The site is located in Unit Letter Q (NE/SW), Lot 1, Section 2, Township 15 South, Range 32 East, approximately 28 miles northwest of Lovington, in Lea County, New Mexico. The property is owned by the State of New Mexico. 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 at an active tank battery; latitude 32.94858 North, Longitude 103.73068 West. The Initial NMOCD Form C-141 indicated that on December 15, 2020 approximately 100 bbls of oil were released when a 2 inch nipple broke on the power oil pump. Lined containment held the majority of the standing liquid but due to high gusts of wind there was some overspray onto the pasture. A vacuum truck was dispatched to the site and recovered approximately 97 bbls of oil from the containment area. The over spray area was immediately scraped up and contaminated soil hauled to an NMOCD approved disposal facility. Previously submitted pages of the NMOCD Form C-141 are available on the NMOCD Imaging System. NMOCD Form C-141 Remediation and Closure pages are included as Attachment V.

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. USGS well 325650103435601 was located .15 miles southwest of the Release Site. Well data indicates completion in Ogallala Aquafer. Gauging in 2006 indicated depth to water of approximately 213.20 feet bgs. Approximate depth to groundwater was determined using maintained and published water well data. Karst mapping indicates the site is not located in a Karst designated area. Depth to groundwater information is provided as Attachment II and the results are depicted on Figures 2 & 3.

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	20,000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2,500 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Methods 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Methods 8021B or 8260B	10 mg/kg

Delineation and Remediation Activities:

On December 30 and 31, 2020, Hungry Horse conducted an initial site assessment and a series of sampling events. During the sampling events, sample test trenches were advanced throughout the affected area in an effort to determine the vertical extent of contamination. In addition, sample test trenches were advanced along the inferred edges of the affected area in an effort to determine the horizontal extent of contamination. During the advancement of the test trenches, soil samples were collected and field screened for the presence of volatile organic compounds via a photoionization detector (PID) and chloride concentrations utilizing a Hach Quantab ® chloride test kit.

Based on field observations and field test data, sixteen (16) representative soil samples were selected for laboratory analysis. Delineation soil samples SP1 through SP5, and HZ1 through HZ3, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria with the exception of SP1 at surf, SP2 at surf, SP3 at sur, and HZ1 at 1', which exhibited TPH concentrations in excess of NMOCD Closure Criteria.

On January 18, 2021 Hungry Horse conducted additional sampling at the area characterized by sample location HZ1. A total of two (2) horizontal delineation soil samples, HZ1-B Surf and HZ1-B 1' were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria.

On February 8, 2021, Hungry Horse conducted an inspection of the tank battery liner; the integrity of the liner was verified. Photos of the liner inspection are included in Attachment I. On February 11, 2021, remediation activities commenced on location. The overspray area behind the tank battery was excavated to a depth of approximately three (3) feet bgs. The floor and sidewalls of the excavation were advanced until laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria. Excavated soil was hauled to a state approved facility for disposal.

On March 5, 2021, thirteen (13) composite confirmation soil samples were collected from the excavation floor and sidewalls. FL1 through FL9 and SW1 though SW4, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples with the exception of SW1, which exhibited a TPH concentration of 1,430 mg/kg.

On March 17, 2021, Hungry Horse returned to the site for excavation activities. Impacted soil in the area characterized by sample location SW1 was excavated approximately one (1) foot

laterally. After removal of impacted soil, one confirmation soil sample, SW1a, was collected and submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria.

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

The excavated area measured approximately 64 ft. in length and 37 ft. in width and 3 ft. in depth. During remediation activities approximately 558 cubic yards of impacted soil were hauled to an NMOCD approved disposal facility.

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 area was contoured to achieve erosion control and preserve surface water flow. The affected area will be reseeded with an approved seed mixture, that is free of noxious weeds, during the first favorable growing season.

Closure Request:

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

Based on laboratory analytical results and field activities conducted to date, Hungry Horse recommends Grand Banks Energy provide copies of this *Final Closure Report* to the appropriate agencies and request closure be granted to the Anderson Ranch Unit #14.

Limitations:

Hungry Horse, LLC, has prepared this *Final Closure Report* 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.
P.O. Box 272
Midland, TX 79702

New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
1625 N. French Drive
Hobbs, NM 88240

New Mexico State Land Office
914 N. Linam St.
Hobbs, NM 88240

Figures

Figure 1
Topographic Map
Grand Banks Energy
Anderson Ranch Unit #14
GPS: 32.94858, -103.73068
Lea County

Legend:

- Anderson Ranch Unit #14 Location

Drafted: lmn
Checked: dd
Date: 1/21/21

Hungry-Horse, LLC
Oil & Gas Services

Figure 2

OSE POD Locations Map
Grand Banks Energy
Anderson Ranch Unit #14
GPS: 32.94858, -103.73068
Lea County

Legend:

- Anderson Ranch Unit #14 Location
- Active OSE Water Well
- 2 Multiple OSE Water Wells

Drafted: lmn
Checked: dd
Date: 1/21/21

Hungry-Horse, LLC
Oil & Gas Services

Figure 3

USGS Well Locations Map
Grand Banks Energy
Anderson Ranch Unit #14
GPS: 32.94858, -103.73068
Lea County

Legend:

- Anderson Ranch Unit #14 Location
- USGS Well Location

Drafted: lmn
Checked: dd
Date: 1/21/21

Hungry-Horse, LLC
Oil & Gas Services

Figure 4
Delineation Sample Map
Grand Banks Energy
Anderson Ranch Unit #14
GPS: 32.94858, -103.73068
Lea County

Legend:
- Release Area
- Overspray Area
- SP1 Sample Location

Drafted: lmn
Checked: dd
Date: 1/21/21

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Oil & Gas Services

Figure 5

Excavation Sample Map

Grand Banks Energy

Anderson Ranch Unit #14

GPS: 32.94858, -103.73068

Lea County

Legend:

Excavated Area

FL1 Composite Sample Location

Drafted: dd

Checked: lmn

Date: 3/15/21

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Tables

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
Grand Banks Energy
Anderson Ranch Unit #14
NMOCD Ref. #: NAPP2035233416

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	12/30/20	Surf	Excavated	0.03	118	2,070	17,000	19,070	1,400	**20,500**	13.3
	12/30/20	3	Excavated	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	13.8
SP2	12/30/20	Surf	Excavated	<0.00200	1.13	1,070	8,740	9,810	653	**10,500**	10.7
	12/30/20	3	Excavated	<0.00199	0.0246	<50.0	<50.0	<50.0	<50.0	<50.0	16.1
SP3	12/30/20	Surf	Excavated	<0.00202	0.427	129	6,160	6,289	480	**6,770**	9.64
	12/30/20	3	Excavated	<0.00200	0.00249	<50.0	<50.0	<50.0	<50.0	<50.0	12.0
SP4	12/30/20	Surf	Excavated	<0.00201	0.0069	<49.9	81.9	81.9	<49.9	81.9	9.09
	12/30/20	1	Excavated	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	10.0
SP5	12/30/20	Surf	Excavated	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	7.91
	12/30/20	1	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	20.5
HZ1	12/31/20	Surf	Excavated	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	16.6
	12/31/20	1	Excavated	<0.00201	<0.00201	<49.8	115	115	<49.9	**115**	46.4
HZ2	12/31/20	Surf	In-Situ	<0.00202	<0.00202	<49.9	81.3	81.3	<49.9	81.3	10.0
	12/31/20	1	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	9.15
HZ3	12/31/20	Surf	In-Situ	<0.00199	<0.00199	<49.8	52.1	52.1	<49.8	52.1	9.71
	12/31/20	1	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	21.8
HZ1B	1/18/21	Surf	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	8.84
	1/18/21	1	In-Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	7.93
FL1	3/5/21	3	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	13.5
FL2	3/5/21	3	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	<4.97
FL3	3/5/21	3	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	12.4
FL4	3/5/21	3	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	15.1
FL5	3/5/21	3	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	16.7
FL6	3/5/21	3	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	18.4
FL7	3/5/21	3	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	<5.00
FL8	3/5/21	3	In-Situ	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	13.9
FL9	3/5/21	3	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	16.2
SW1	3/5/21	1.5	Excavated	<0.00199	<0.00199	236	1,110	1,346	86.1	**1,430**	13.8
SW2	3/5/21	1.5	In-Situ	<0.00200	<0.00200	<50.0	95.1	95.1	<50.0	95.1	19.0
SW3	3/5/21	1.5	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	16.5
SW4	3/5/21	1.5	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	26.0
SW1a	3/17/21	1.5	In-Situ	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	29.9
NMOCD Closure Criteria				**10**	**50**	**-**	**-**	**1,000**	**-**	**2,500**	**20,000**

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

Attachment I
Site Photographs

Photographs

Photo: 1 **Direction:** South **Description:** Release within containment.	
Photo: 2 **Direction:** South **Description:** Release within containment.	

Photographs

Photo: 3 **Direction:** West **Description:** Overspray area behind tank battery after initial surface scrape.	

Photo: 4 **Direction:** West **Description:** Overspray area behind tank battery after initial surface scrape.	

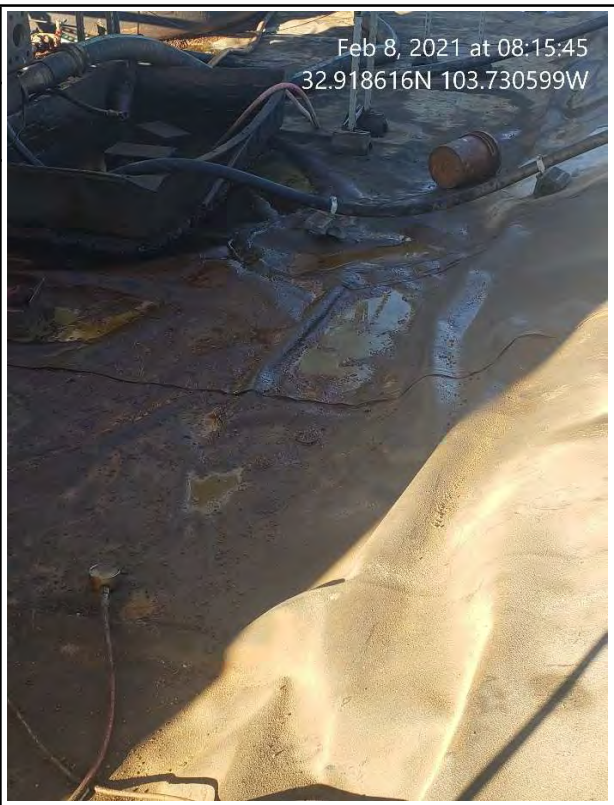
Photographs

Photo: 5 **Direction:** Southwest **Description:** Overspray area behind tank battery after initial surface scrape.	

Photo: 6 **Direction:** Southwest **Description:** Overspray area behind tank battery after initial surface scrape.	

Photographs

Photo: 7 **Direction:** South **Description:** Liner inspection.	

Photo: 8 **Direction:** West **Description:** Liner inspection.	

Photographs

Photo: 9 **Direction:** West **Description:** Liner inspection.	

Photo: 10 **Direction:** East **Description:** Liner inspection.	

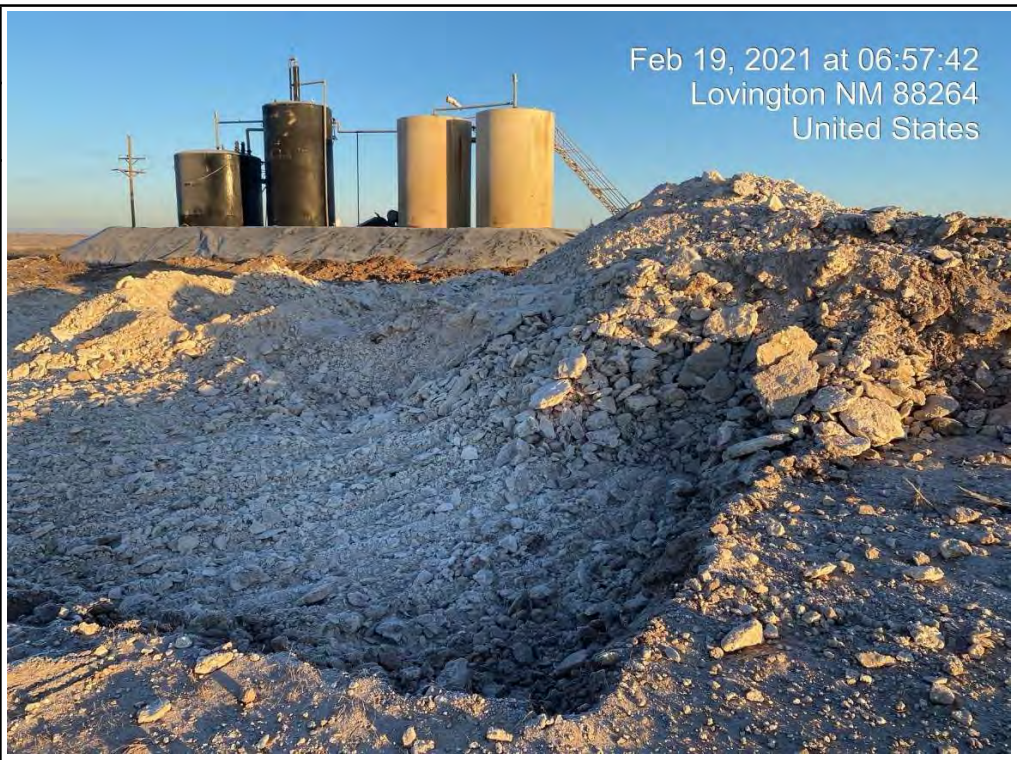
Photographs

Photo: 11 **Direction:** Southwest **Description:** Excavation activities.	

Photo: 12 **Direction:** South **Description:** Excavation activities.	

Photographs

Photo: 13 **Direction:** West **Description:** Excavation activities.	

Photo: 14 **Direction:** North **Description:** Excavation activities.	

Photographs

Photo: 15 **Direction:** Southwest **Description:** Excavation activities complete.	

Photo: 16 **Direction:** South **Description:** Excavation activities complete.	

Photographs

Photo: 17 **Direction:** Northeast **Description:** Backfill activities complete.	

Photo: 18 **Direction:** East **Description:** Backfill activities complete.	

Photographs

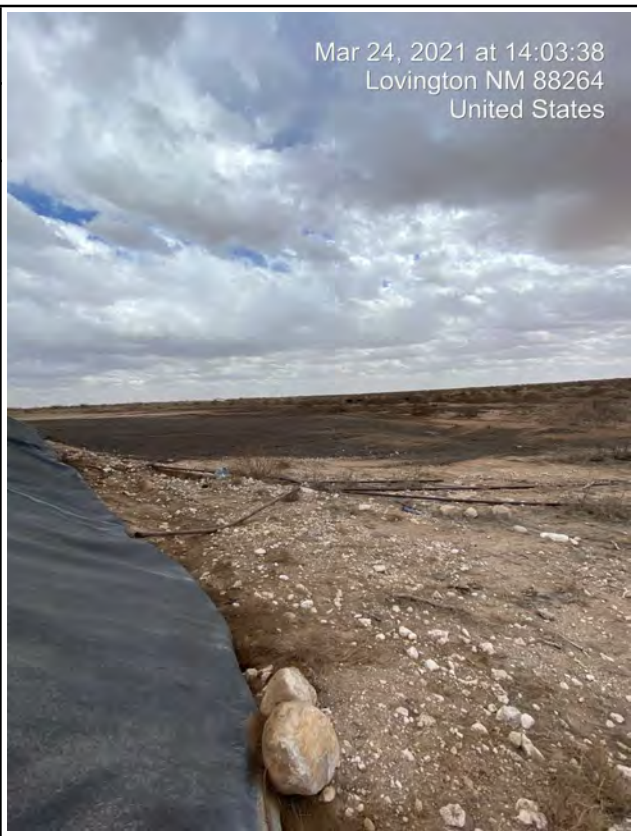
Photo: 19 **Direction:** Southeast **Description:** Backfill activities complete.	

Photo: 20 **Direction:** West **Description:** Backfill activities complete.	

Attachment II
Depth to Groundwater

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-basin Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 02467	L	LE	1	4	02	16S	32E	618250	3646322*		383	328	275	53
L 02617	L	LE	4	4	02	16S	32E	618656	3645924*		488	322	270	52
L 08241	L	LE	4	4	02	16S	32E	618656	3645924*		488	316		
L 03631	L	LE	1	2	02	16S	32E	618240	3647126*		811	315	250	65

Average Depth to Water: **265 feet**

Minimum Depth: **250 feet**

Maximum Depth: **275 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 618622.62 **Northing (Y):** 3646410.89 **Radius:** 880

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

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	L 02467		1	4	02	16S	32E	618250	3646322*

Driller License: 46 **Driller Company:** ABBOTT BROTHERS COMPANY

Driller Name: MURRILL ABBOTT

Drill Start Date:	01/19/1954	**Drill Finish Date:**	01/21/1954	**Plug Date:**	
Log File Date:	01/29/1954	**PCW Rcv Date:**	01/29/1954	**Source:**	Shallow
Pump Type:	TURBIN	**Pipe Discharge Size:**		**Estimated Yield:**	50 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
	270	328

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

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	L 02617	4	4		02	16S	32E	618656	3645924*

Driller License: 111 **Driller Company:** BURKE, EDWARD B.

Driller Name: BURKE, EDWARD B.

Drill Start Date:	08/06/1954	**Drill Finish Date:**	08/07/1954	**Plug Date:**	09/10/1957
Log File Date:	08/23/1954	**PCW Rcv Date:**	09/27/1954	**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	7.00	**Depth Well:**	322 feet	**Depth Water:**	270 feet

Water Bearing Stratifications:	Top	Bottom	Description
	280	301	Sandstone/Gravel/Conglomerate
	304	316	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	273	322

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

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	L 03631		1	2	02	16S	32E	618240	3647126*

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)
(NAD83 UTM in meters)

Driller License: 90 **Driller Company:** BETHEL & MATTHEWS

Driller Name: H R BETHEL

Drill Start Date:	07/24/1957	**Drill Finish Date:**	07/31/1957	**Plug Date:**	
Log File Date:	08/07/1957	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	7.00	**Depth Well:**	315 feet	**Depth Water:**	250 feet

Water Bearing Stratifications:	Top	Bottom	Description
	280	315	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	271	315

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

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	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 Rcv 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**

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 325650103435601

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

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 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	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source measur
1961-03-15		D	206.99			2		U		
1976-05-06		D	209.90			2		U		
1981-03-27		D	211.34			2		U		
1986-01-10		D	211.28			2		U		
1990-11-30		D	212.54			2		U		
2001-02-16		D	214.12			2		S		
2006-02-16	12:18 MST	m	213.20			2		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
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey

Section	Code	Description
Source of measurement	S	Measured by personnel of reporting agency.
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions about sites/data?
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Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2020-12-31 12:23:03 EST
0.29 0.26 nadww01

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 325707103430901

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 325707103430901 16S.32E.01.14143

Lea County, New Mexico
Latitude 32°57'07", Longitude 103°43'09" NAD27
Land-surface elevation 4,274 feet above NAVD88
The depth of the well is 330 feet below land surface.
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	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source o measure
1961-03-15		D	200.74			2		U		
1966-02-15		D	200.03			2		U		
1971-03-23		D	200.55			2		U		
1976-05-06		D	201.22			2		U		
1981-03-27		D	202.80			2		U		
1986-01-10		D	203.27			2		U		
1990-12-04		D	204.90			2		U		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2020-12-31 12:21:30 EST
0.26 0.24 nadww01

Click to hideNews Bulletins

- Explore the **NEW** USGS National Water Dashboard to access real-time data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 325715103435101

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 325715103435101 16S.32E.02.21431

Lea County, New Mexico
Latitude 32°57'15", Longitude 103°43'51" NAD27
Land-surface elevation 4,298 feet above NAVD88
The depth of the well is 315 feet below land surface.
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	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source o measure
1961-03-31		D	207.52			2		U		
1966-02-14		D	203.38			2		U		
1971-03-23		D	207.66			2		U		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help

Data Tips
Explanation of terms
Subscribe for system changes
News

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2020-12-31 12:14:28 EST
0.27 0.25 nadww01

Attachment III
Field Data

Hungry Horse, LLC

Sample Log

Date: 12-30-2020

Project: Anderson Ranch Unit #14

Latitude: 32.94858 Longitude: -103.73068 Sampler: Ashton Rich

Sample ID	PID/Odor	Chloride Conc.	GPS
Sp1 Surf	162.5	Less than 100	
1'	69.60	Less than 100	
2'	19.45	Less than 100	
3'	1.1	Less than 100	
Sp 2-Surf	24.00	Less than 100	
1'	2.25	Less than 100	
2'	2.0	Less than 100	
3'	1.2	Less than 100	
Sp 3 - Surf	25.65	Less than 100	
1'	3.40	Less than 100	
2'	2.35	Less than 100	
3'	1.1	Less than 100	
Sp4 - surf	0.70	Less than 100	
1'	1.0	Less than 100	
Sp5 - Surf	0.60	Less than 100	
1'	0.70	Less than 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

Hungry Horse, LLC

Sample Log

Date: 12-31-2020

Project: Anderson Ranch Unit #14

Latitude: 32.94858 Longitude: -103.73068 Sampler: Ashton Rich

Sample ID	PID/Odor	Chloride Conc.	GPS
Hz 1-surf	0.20	Less than 100	
1'	0.25	Less than 100	
Hz 2-surf	0.35	Less than 100	
1'	0.30	Less than 100	
Hz 3-surf	0.20	Less than 100	
1'	0.25	Less than 100	
1-18-21			
Hz 1b - surf	0.20	Less than 100	
1'	0.18	Less than 100	

Sample Point = SP1 @ ## etc
Floor = FL1 etc
Sidewall = SW1 etc

Horizontal = HZ1 etc
Refusal = SP1 @ 4'-R
GPS Sample Points, Center of Comp Areas

Test Trench = TT1 @ ##
Resamples= SP1b @ 5' or SW #1b
Stockpile = Stockpile #1

Sample Log

Hungry Horse, LLC

Date: 3-5-21

Project: Anderson Ranch Unit #14

Latitude: 32.94858 Longitude: -103.73068 Sampler: Bradley

Sample ID	PID/Odor	Chloride Conc.	GPS
FL1	—	<100	
FL2	—	<100	
FL3	—	<100	
FL4	—	<100	
FL5	—	<100	
FL6	—	<100	
FL7	—	<100	
FL8	—	<100	
FL9	—	<100	
~~FL10~~			
SW1	—	<100	
SW2	—	<100	
SW3	—	<100	
SW4	—	<100	
3-17-21			
SW1a	—	<100	

Sample Point = SP1 @ ## etc
Floor = FL1 etc
Sidewall = SW1 etc

Horizontal = HZ1 etc
Refusal = SP1 @ 4'-R
GPS Sample Points, Center of Comp Areas

Test Trench = TT1 @ ##
Resamples= SP1b @ 5' or SW #1b
Stockpile = Stockpile #1

Attachment IV
Laboratory Analytical Reports

Attachment V
NMOCD Form C-141 Remediation and Closure Pages

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Certificate of Analysis Summary 683559

Hungry Horse LLC, Hobbs, NM

Project Name: ARU #14

Project Id: ARU #14
Contact: Daniel Dominquez
Project Location: Grandbanks

Date Received in Lab: Wed 01.06.2021 12:42
Report Date: 01.13.2021 13:31
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	683559-001		683559-002		683559-003		683559-004		683559-005		683559-006	
	Field Id:	SP1		SP1		SP2		SP2		SP3		SP3	
	Depth:			3- ft				3- ft				3- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	12.30.2020 00:00		12.30.2020 00:00		12.30.2020 00:00		12.30.2020 00:00		12.30.2020 00:00		12.30.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	01.06.2021 13:00		01.06.2021 14:15		01.06.2021 13:00		01.06.2021 13:00		01.06.2021 13:00		01.06.2021 13:00	
	Analyzed:	01.06.2021 19:59		01.07.2021 09:45		01.06.2021 20:40		01.06.2021 21:01		01.06.2021 21:22		01.06.2021 21:42	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		0.0343	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202	<0.00200	0.00200
Toluene		12.0 D	0.200	<0.00198	0.00198	0.0602	0.00200	<0.00199	0.00199	0.0384	0.00202	<0.00200	0.00200
Ethylbenzene		7.58 D	0.200	<0.00198	0.00198	0.0639	0.00200	<0.00199	0.00199	0.0249	0.00202	<0.00200	0.00200
m,p-Xylenes		71.8 D	0.401	<0.00396	0.00396	0.672	0.00399	0.0209	0.00398	0.236	0.00404	<0.00401	0.00401
o-Xylene		26.7 D	0.200	<0.00198	0.00198	0.331	0.00200	0.00366	0.00199	0.128	0.00202	0.00249	0.00200
Total Xylenes		98.5	0.200	<0.00198	0.00198	1.00	0.00200	0.0246	0.00199	0.364	0.00202	0.00249	0.00200
Total BTEX		118	0.00200	<0.00198	0.00198	1.13	0.00200	0.0246	0.00199	0.427	0.00202	0.00249	0.00200
Chloride by EPA 300	***Extracted:***	01.08.2021 11:25		01.08.2021 11:25		01.08.2021 11:25		01.08.2021 11:25		01.08.2021 11:25		01.08.2021 11:25	
	Analyzed:	01.08.2021 19:56		01.08.2021 20:01		01.08.2021 20:17		01.08.2021 20:22		01.08.2021 20:27		01.08.2021 20:32	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		13.3	5.04	13.8	4.96	10.7	5.00	16.1	5.00	9.64	5.00	12.0	5.03
TPH By SW8015 Mod	***Extracted:***	01.08.2021 11:00		01.08.2021 11:00		01.08.2021 11:00		01.08.2021 11:00		01.08.2021 11:00		01.08.2021 11:00	
	Analyzed:	01.09.2021 09:13		01.08.2021 15:03		01.09.2021 09:35		01.08.2021 16:50		01.08.2021 17:13		01.08.2021 17:35	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		2070	249	<50.0	50.0	1070	249	<50.0	50.0	129	49.9	<50.0	50.0
Diesel Range Organics (DRO)		17000	249	<50.0	50.0	8740	249	<50.0	50.0	6160	49.9	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		1400	249	<50.0	50.0	653	249	<50.0	50.0	480	49.9	<50.0	50.0
Total TPH		20500	249	<50.0	50.0	10500	249	<50.0	50.0	6770	49.9	<50.0	50.0

BRL - Below Reporting Limit

Holly Taylor

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Certificate of Analysis Summary 683559

Hungry Horse LLC, Hobbs, NM

Project Name: ARU #14

Project Id: ARU #14
Contact: Daniel Dominquez
Project Location: Grandbanks

Date Received in Lab: Wed 01.06.2021 12:42
Report Date: 01.13.2021 13:31
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	683559-007		683559-008		683559-009		683559-010					
	Field Id:	SP4		SP4		SP5		SP5					
	Depth:			1- ft				1- ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	12.30.2020 00:00		12.30.2020 00:00		12.30.2020 00:00		12.30.2020 00:00					
BTEX by EPA 8021B	***Extracted:***	01.06.2021 13:00		01.06.2021 13:00		01.06.2021 13:00		01.06.2021 13:00					
	Analyzed:	01.06.2021 22:03		01.06.2021 22:24		01.06.2021 22:44		01.06.2021 23:05					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00201	0.00201	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200				
Toluene		<0.00201	0.00201	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200				
Ethylbenzene		<0.00201	0.00201	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200				
m,p-Xylenes		0.00430	0.00402	<0.00396	0.00396	<0.00398	0.00398	<0.00399	0.00399				
o-Xylene		0.00260	0.00201	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200				
Total Xylenes		0.00690	0.00201	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200				
Total BTEX		0.00690	0.00201	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200				
Chloride by EPA 300	***Extracted:***	01.08.2021 11:25		01.08.2021 11:25		01.08.2021 11:25		01.08.2021 11:25					
	Analyzed:	01.08.2021 20:38		01.08.2021 20:43		01.08.2021 20:58		01.08.2021 21:04					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		9.09	4.95	10.4	4.99	7.91	4.99	20.5	4.97				
TPH By SW8015 Mod	***Extracted:***	01.08.2021 11:00		01.08.2021 11:00		01.08.2021 11:00		01.08.2021 11:00					
	Analyzed:	01.08.2021 17:56		01.08.2021 18:18		01.08.2021 18:39		01.08.2021 19:01					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<49.9	49.9	<49.8	49.8	<50.0	50.0				
Diesel Range Organics (DRO)		81.9	49.9	<49.9	49.9	<49.8	49.8	<50.0	50.0				
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<49.9	49.9	<49.8	49.8	<50.0	50.0				
Total TPH		81.9	49.9	<49.9	49.9	<49.8	49.8	<50.0	50.0				

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 683559

for

Hungry Horse LLC

Project Manager: Daniel Dominquez

ARU #14

ARU #14

01.13.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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01.13.2021

Project Manager: **Daniel Dominquez**
Hungry Horse LLC
P. O. Box 1058
Hobbs, NM 88241

Reference: Eurofins Xenco, LLC Report No(s): **683559**
ARU #14
Project Address: Grandbanks

Daniel Dominquez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 683559. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 683559 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor

Holly Taylor
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 683559

Hungry Horse LLC, Hobbs, NM

ARU #14

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP1	S	12.30.2020 00:00		683559-001
SP1	S	12.30.2020 00:00	3 ft	683559-002
SP2	S	12.30.2020 00:00		683559-003
SP2	S	12.30.2020 00:00	3 ft	683559-004
SP3	S	12.30.2020 00:00		683559-005
SP3	S	12.30.2020 00:00	3 ft	683559-006
SP4	S	12.30.2020 00:00		683559-007
SP4	S	12.30.2020 00:00	1 ft	683559-008
SP5	S	12.30.2020 00:00		683559-009
SP5	S	12.30.2020 00:00	1 ft	683559-010

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CASE NARRATIVE

Client Name: Hungry Horse LLC

Project Name: ARU #14

Project ID: *ARU #14*
Work Order Number(s): *683559*

Report Date: *01.13.2021*
Date Received: *01.06.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3146951 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected.
Samples affected are: 683559-009.

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Certificate of Analytical Results 683559

Hungry Horse LLC, Hobbs, NM

ARU #14

Sample Id:	**SP1**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683559-001	Date Collected:	12.30.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	01.08.2021 11:25	% Moisture:	
Seq Number:	3147240			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**13.3**	5.04	mg/kg	01.08.2021 19:56		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	MNR				
Analyst:	ARM	Date Prep:	01.08.2021 11:00	% Moisture:	
Seq Number:	3147377			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**2070**	249	mg/kg	01.09.2021 09:13		5
Diesel Range Organics (DRO)	C10C28DRO	**17000**	249	mg/kg	01.09.2021 09:13		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**1400**	249	mg/kg	01.09.2021 09:13		5
Total TPH	PHC635	**20500**	249	mg/kg	01.09.2021 09:13		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-130	01.09.2021 09:13	
o-Terphenyl	84-15-1	113	%	70-130	01.09.2021 09:13	

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Certificate of Analytical Results 683559

Hungry Horse LLC, Hobbs, NM

ARU #14

Sample Id:	**SP1**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683559-001	Date Collected:	12.30.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.06.2021 13:00	% Moisture:	
Seq Number:	3146951			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.0343**	0.00200	mg/kg	01.06.2021 19:59		1
Toluene	108-88-3	**12.0**	0.200	mg/kg	01.07.2021 10:06	D	100
Ethylbenzene	100-41-4	**7.58**	0.200	mg/kg	01.07.2021 10:06	D	100
m,p-Xylenes	179601-23-1	**71.8**	0.401	mg/kg	01.07.2021 10:06	D	100
o-Xylene	95-47-6	**26.7**	0.200	mg/kg	01.07.2021 10:06	D	100
Total Xylenes	1330-20-7	**98.5**	0.200	mg/kg	01.07.2021 10:06		100
Total BTEX		**118**	0.00200	mg/kg	01.07.2021 10:06		100

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.06.2021 19:59	
4-Bromofluorobenzene	460-00-4	343	%	70-130	01.06.2021 19:59	**

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Certificate of Analytical Results 683559

Hungry Horse LLC, Hobbs, NM

ARU #14

Sample Id:	**SP1**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683559-002	Date Collected:	12.30.2020 00:00	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	01.08.2021 11:25	% Moisture:	
Seq Number:	3147240			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**13.8**	4.96	mg/kg	01.08.2021 20:01		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	MNR				
Analyst:	ARM	Date Prep:	01.08.2021 11:00	% Moisture:	
Seq Number:	3147377			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.08.2021 15:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.08.2021 15:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.08.2021 15:03	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.08.2021 15:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	01.08.2021 15:03	
o-Terphenyl	84-15-1	98	%	70-130	01.08.2021 15:03	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 683559

Hungry Horse LLC, Hobbs, NM

ARU #14

Sample Id:	**SP1**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683559-002	Date Collected:	12.30.2020 00:00	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.06.2021 14:15	% Moisture:	
Seq Number:	3146957			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.07.2021 09:45	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.07.2021 09:45	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.07.2021 09:45	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	01.07.2021 09:45	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.07.2021 09:45	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.07.2021 09:45	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.07.2021 09:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	01.07.2021 09:45	
1,4-Difluorobenzene	540-36-3	99	%	70-130	01.07.2021 09:45	

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Hungry Horse LLC, Hobbs, NM

ARU #14

Sample Id:	**SP2**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683559-003	Date Collected:	12.30.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	01.08.2021 11:25	% Moisture:	
Seq Number:	3147240			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**10.7**	5.00	mg/kg	01.08.2021 20:17		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	MNR				
Analyst:	ARM	Date Prep:	01.08.2021 11:00	% Moisture:	
Seq Number:	3147377			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**1070**	249	mg/kg	01.09.2021 09:35		5
Diesel Range Organics (DRO)	C10C28DRO	**8740**	249	mg/kg	01.09.2021 09:35		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**653**	249	mg/kg	01.09.2021 09:35		5
Total TPH	PHC635	**10500**	249	mg/kg	01.09.2021 09:35		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	121	%	70-130	01.09.2021 09:35	
o-Terphenyl	84-15-1	114	%	70-130	01.09.2021 09:35	

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Hungry Horse LLC, Hobbs, NM

ARU #14

Sample Id:	**SP2**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683559-003	Date Collected:	12.30.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.06.2021 13:00	% Moisture:	
Seq Number:	3146951			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.06.2021 20:40	U	1
Toluene	108-88-3	**0.0602**	0.00200	mg/kg	01.06.2021 20:40		1
Ethylbenzene	100-41-4	**0.0639**	0.00200	mg/kg	01.06.2021 20:40		1
m,p-Xylenes	179601-23-1	**0.672**	0.00399	mg/kg	01.06.2021 20:40		1
o-Xylene	95-47-6	**0.331**	0.00200	mg/kg	01.06.2021 20:40		1
Total Xylenes	1330-20-7	**1.00**	0.00200	mg/kg	01.06.2021 20:40		1
Total BTEX		**1.13**	0.00200	mg/kg	01.06.2021 20:40		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	171	%	70-130	01.06.2021 20:40	**
1,4-Difluorobenzene	540-36-3	94	%	70-130	01.06.2021 20:40	

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ARU #14

Sample Id:	**SP2**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683559-004	Date Collected:	12.30.2020 00:00	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	01.08.2021 11:25	% Moisture:	
Seq Number:	3147240			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**16.1**	5.00	mg/kg	01.08.2021 20:22		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	MNR				
Analyst:	ARM	Date Prep:	01.08.2021 11:00	% Moisture:	
Seq Number:	3147377			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.08.2021 16:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.08.2021 16:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.08.2021 16:50	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.08.2021 16:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	01.08.2021 16:50	
o-Terphenyl	84-15-1	90	%	70-130	01.08.2021 16:50	

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ARU #14

Sample Id:	**SP2**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683559-004	Date Collected:	12.30.2020 00:00	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.06.2021 13:00	% Moisture:	
Seq Number:	3146951			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.06.2021 21:01	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.06.2021 21:01	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.06.2021 21:01	U	1
m,p-Xylenes	179601-23-1	**0.0209**	0.00398	mg/kg	01.06.2021 21:01		1
o-Xylene	95-47-6	**0.00366**	0.00199	mg/kg	01.06.2021 21:01		1
Total Xylenes	1330-20-7	**0.0246**	0.00199	mg/kg	01.06.2021 21:01		1
Total BTEX		**0.0246**	0.00199	mg/kg	01.06.2021 21:01		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	01.06.2021 21:01	
4-Bromofluorobenzene	460-00-4	106	%	70-130	01.06.2021 21:01	

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ARU #14

Sample Id:	**SP3**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683559-005	Date Collected:	12.30.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	01.08.2021 11:25	% Moisture:	
Seq Number:	3147240			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.64**	5.00	mg/kg	01.08.2021 20:27		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	MNR				
Analyst:	ARM	Date Prep:	01.08.2021 11:00	% Moisture:	
Seq Number:	3147377			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**129**	49.9	mg/kg	01.08.2021 17:13		1
Diesel Range Organics (DRO)	C10C28DRO	**6160**	49.9	mg/kg	01.08.2021 17:13		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**480**	49.9	mg/kg	01.08.2021 17:13		1
Total TPH	PHC635	**6770**	49.9	mg/kg	01.08.2021 17:13		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-130	01.08.2021 17:13	
o-Terphenyl	84-15-1	107	%	70-130	01.08.2021 17:13	

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Sample Id:	**SP3**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683559-005	Date Collected:	12.30.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.06.2021 13:00	% Moisture:	
Seq Number:	3146951			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.06.2021 21:22	U	1
Toluene	108-88-3	**0.0384**	0.00202	mg/kg	01.06.2021 21:22		1
Ethylbenzene	100-41-4	**0.0249**	0.00202	mg/kg	01.06.2021 21:22		1
m,p-Xylenes	179601-23-1	**0.236**	0.00404	mg/kg	01.06.2021 21:22		1
o-Xylene	95-47-6	**0.128**	0.00202	mg/kg	01.06.2021 21:22		1
Total Xylenes	1330-20-7	**0.364**	0.00202	mg/kg	01.06.2021 21:22		1
Total BTEX		**0.427**	0.00202	mg/kg	01.06.2021 21:22		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	91	%	70-130	01.06.2021 21:22	
4-Bromofluorobenzene	460-00-4	122	%	70-130	01.06.2021 21:22	

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ARU #14

Sample Id:	**SP3**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683559-006	Date Collected:	12.30.2020 00:00	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	01.08.2021 11:25	% Moisture:	
Seq Number:	3147240			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**12.0**	5.03	mg/kg	01.08.2021 20:32		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	MNR				
Analyst:	ARM	Date Prep:	01.08.2021 11:00	% Moisture:	
Seq Number:	3147377			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.08.2021 17:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.08.2021 17:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.08.2021 17:35	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.08.2021 17:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	01.08.2021 17:35	
o-Terphenyl	84-15-1	92	%	70-130	01.08.2021 17:35	

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ARU #14

Sample Id:	**SP3**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683559-006	Date Collected:	12.30.2020 00:00	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.06.2021 13:00	% Moisture:	
Seq Number:	3146951			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.06.2021 21:42	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.06.2021 21:42	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.06.2021 21:42	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.06.2021 21:42	U	1
o-Xylene	95-47-6	**0.00249**	0.00200	mg/kg	01.06.2021 21:42		1
Total Xylenes	1330-20-7	**0.00249**	0.00200	mg/kg	01.06.2021 21:42		1
Total BTEX		**0.00249**	0.00200	mg/kg	01.06.2021 21:42		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	01.06.2021 21:42	
4-Bromofluorobenzene	460-00-4	106	%	70-130	01.06.2021 21:42	

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ARU #14

Sample Id:	**SP4**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683559-007	Date Collected:	12.30.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	01.08.2021 11:25	% Moisture:	
Seq Number:	3147240			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.09**	4.95	mg/kg	01.08.2021 20:38		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	MNR				
Analyst:	ARM	Date Prep:	01.08.2021 11:00	% Moisture:	
Seq Number:	3147377			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.08.2021 17:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	**81.9**	49.9	mg/kg	01.08.2021 17:56		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.08.2021 17:56	U	1
Total TPH	PHC635	**81.9**	49.9	mg/kg	01.08.2021 17:56		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	01.08.2021 17:56	
o-Terphenyl	84-15-1	88	%	70-130	01.08.2021 17:56	

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ARU #14

Sample Id:	**SP4**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683559-007	Date Collected:	12.30.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.06.2021 13:00	% Moisture:	
Seq Number:	3146951			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.06.2021 22:03	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.06.2021 22:03	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.06.2021 22:03	U	1
m,p-Xylenes	179601-23-1	**0.00430**	0.00402	mg/kg	01.06.2021 22:03		1
o-Xylene	95-47-6	**0.00260**	0.00201	mg/kg	01.06.2021 22:03		1
Total Xylenes	1330-20-7	**0.00690**	0.00201	mg/kg	01.06.2021 22:03		1
Total BTEX		**0.00690**	0.00201	mg/kg	01.06.2021 22:03		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	01.06.2021 22:03	
4-Bromofluorobenzene	460-00-4	109	%	70-130	01.06.2021 22:03	

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ARU #14

Sample Id:	**SP4**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683559-008	Date Collected:	12.30.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	01.08.2021 11:25	% Moisture:	
Seq Number:	3147240			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**10.4**	4.99	mg/kg	01.08.2021 20:43		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	MNR				
Analyst:	ARM	Date Prep:	01.08.2021 11:00	% Moisture:	
Seq Number:	3147377			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.08.2021 18:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.08.2021 18:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.08.2021 18:18	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.08.2021 18:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	01.08.2021 18:18	
o-Terphenyl	84-15-1	88	%	70-130	01.08.2021 18:18	

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Sample Id:	**SP4**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683559-008	Date Collected:	12.30.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.06.2021 13:00	% Moisture:	
Seq Number:	3146951			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.06.2021 22:24	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.06.2021 22:24	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.06.2021 22:24	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	01.06.2021 22:24	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.06.2021 22:24	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.06.2021 22:24	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.06.2021 22:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	70-130	01.06.2021 22:24	
1,4-Difluorobenzene	540-36-3	87	%	70-130	01.06.2021 22:24	

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ARU #14

Sample Id:	**SP5**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683559-009	Date Collected:	12.30.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	01.08.2021 11:25	% Moisture:	
Seq Number:	3147240			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7.91**	4.99	mg/kg	01.08.2021 20:58		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	MNR				
Analyst:	ARM	Date Prep:	01.08.2021 11:00	% Moisture:	
Seq Number:	3147377			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.08.2021 18:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.08.2021 18:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.08.2021 18:39	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.08.2021 18:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	01.08.2021 18:39	
o-Terphenyl	84-15-1	85	%	70-130	01.08.2021 18:39	

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ARU #14

Sample Id:	**SP5**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683559-009	Date Collected:	12.30.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.06.2021 13:00	% Moisture:	
Seq Number:	3146951			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.06.2021 22:44	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.06.2021 22:44	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.06.2021 22:44	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.06.2021 22:44	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.06.2021 22:44	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.06.2021 22:44	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.06.2021 22:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	01.06.2021 22:44	
4-Bromofluorobenzene	460-00-4	67	%	70-130	01.06.2021 22:44	**

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Certificate of Analytical Results 683559

Hungry Horse LLC, Hobbs, NM

ARU #14

Sample Id:	**SP5**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683559-010	Date Collected:	12.30.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	01.08.2021 11:25	% Moisture:	
Seq Number:	3147240			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**20.5**	4.97	mg/kg	01.08.2021 21:04		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	MNR				
Analyst:	ARM	Date Prep:	01.08.2021 11:00	% Moisture:	
Seq Number:	3147377			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.08.2021 19:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.08.2021 19:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.08.2021 19:01	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.08.2021 19:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-130	01.08.2021 19:01	
o-Terphenyl	84-15-1	96	%	70-130	01.08.2021 19:01	

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Certificate of Analytical Results 683559

Hungry Horse LLC, Hobbs, NM

ARU #14

Sample Id:	**SP5**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683559-010	Date Collected:	12.30.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.06.2021 13:00	% Moisture:	
Seq Number:	3146951			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.06.2021 23:05	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.06.2021 23:05	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.06.2021 23:05	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.06.2021 23:05	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.06.2021 23:05	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.06.2021 23:05	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.06.2021 23:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	01.06.2021 23:05	
1,4-Difluorobenzene	540-36-3	90	%	70-130	01.06.2021 23:05	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 683559

Hungry Horse LLC

ARU #14

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147240 — Matrix: Solid — Date Prep: 01.08.2021
MB Sample Id: 7718726-1-BLK — LCS Sample Id: 7718726-1-BKS — LCSD Sample Id: 7718726-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	256	102	256	102	90-110	0	20	mg/kg	01.08.2021 19:19	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147240 — Matrix: Soil — Date Prep: 01.08.2021
Parent Sample Id: 683555-016 — MS Sample Id: 683555-016 S — MSD Sample Id: 683555-016 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	317	248	570	102	570	102	90-110	0	20	mg/kg	01.08.2021 19:35	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147240 — Matrix: Soil — Date Prep: 01.08.2021
Parent Sample Id: 683559-008 — MS Sample Id: 683559-008 S — MSD Sample Id: 683559-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10.4	250	273	105	272	105	90-110	0	20	mg/kg	01.08.2021 20:48	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147377 — Matrix: Solid — Date Prep: 01.08.2021
MB Sample Id: 7718850-1-BLK — LCS Sample Id: 7718850-1-BKS — LCSD Sample Id: 7718850-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	944	94	873	87	70-130	8	20	mg/kg	01.08.2021 14:21	
Diesel Range Organics (DRO)	<50.0	1000	937	94	942	94	70-130	1	20	mg/kg	01.08.2021 14:21	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	95		96		96		70-130	%	01.08.2021 14:21
o-Terphenyl	101		95		96		70-130	%	01.08.2021 14:21

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147377 — Matrix: Solid — Date Prep: 01.08.2021
MB Sample Id: 7718850-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.08.2021 13:56	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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QC Summary 683559

Hungry Horse LLC

ARU #14

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3147377 Matrix: Soil Date Prep: 01.08.2021
Parent Sample Id: 683559-002 MS Sample Id: 683559-002 S MSD Sample Id: 683559-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	1070	107	1020	102	70-130	5	20	mg/kg	01.08.2021 15:24	
Diesel Range Organics (DRO)	<49.9	998	1080	108	1000	100	70-130	8	20	mg/kg	01.08.2021 15:24	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		91		70-130	%	01.08.2021 15:24
o-Terphenyl	103		88		70-130	%	01.08.2021 15:24

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3146951 Matrix: Solid Date Prep: 01.06.2021
MB Sample Id: 7718602-1-BLK LCS Sample Id: 7718602-1-BKS LCSD Sample Id: 7718602-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0968	97	0.102	102	70-130	5	35	mg/kg	01.06.2021 13:06	
Toluene	<0.00200	0.100	0.107	107	0.113	113	70-130	5	35	mg/kg	01.06.2021 13:06	
Ethylbenzene	<0.00200	0.100	0.101	101	0.108	108	70-130	7	35	mg/kg	01.06.2021 13:06	
m,p-Xylenes	<0.00400	0.200	0.200	100	0.218	109	70-130	9	35	mg/kg	01.06.2021 13:06	
o-Xylene	<0.00200	0.100	0.0957	96	0.105	105	70-130	9	35	mg/kg	01.06.2021 13:06	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	87		93		95		70-130	%	01.06.2021 13:06
4-Bromofluorobenzene	111		101		106		70-130	%	01.06.2021 13:06

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3146957 Matrix: Solid Date Prep: 01.06.2021
MB Sample Id: 7718603-1-BLK LCS Sample Id: 7718603-1-BKS LCSD Sample Id: 7718603-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.101	101	0.100	100	70-130	1	35	mg/kg	01.07.2021 00:08	
Toluene	<0.00200	0.100	0.107	107	0.109	109	70-130	2	35	mg/kg	01.07.2021 00:08	
Ethylbenzene	<0.00200	0.100	0.0976	98	0.0990	99	70-130	1	35	mg/kg	01.07.2021 00:08	
m,p-Xylenes	<0.00400	0.200	0.193	97	0.196	98	70-130	2	35	mg/kg	01.07.2021 00:08	
o-Xylene	<0.00200	0.100	0.0954	95	0.0960	96	70-130	1	35	mg/kg	01.07.2021 00:08	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	88		96		95		70-130	%	01.07.2021 00:08
4-Bromofluorobenzene	111		103		104		70-130	%	01.07.2021 00:08

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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QC Summary 683559

Hungry Horse LLC

ARU #14

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A

Seq Number: 3146951 Matrix: Solid Date Prep: 01.06.2021

Parent Sample Id: 683472-016 MS Sample Id: 683472-016 S MSD Sample Id: 683472-016 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0639	64	0.0609	60	70-130	5	35	mg/kg	01.06.2021 13:48	X
Toluene	<0.00200	0.100	0.0807	81	0.0838	83	70-130	4	35	mg/kg	01.06.2021 13:48	
Ethylbenzene	<0.00200	0.100	0.0804	80	0.0887	88	70-130	10	35	mg/kg	01.06.2021 13:48	
m,p-Xylenes	<0.00401	0.200	0.156	78	0.176	87	70-130	12	35	mg/kg	01.06.2021 13:48	
o-Xylene	<0.00200	0.100	0.0757	76	0.0851	84	70-130	12	35	mg/kg	01.06.2021 13:48	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		91		70-130	%	01.06.2021 13:48
4-Bromofluorobenzene	110		121		70-130	%	01.06.2021 13:48

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A

Seq Number: 3146957 Matrix: Soil Date Prep: 01.06.2021

Parent Sample Id: 683555-001 MS Sample Id: 683555-001 S MSD Sample Id: 683555-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0990	0.0827	84	0.0743	75	70-130	11	35	mg/kg	01.07.2021 00:49	
Toluene	<0.00198	0.0990	0.0852	86	0.0795	80	70-130	7	35	mg/kg	01.07.2021 00:49	
Ethylbenzene	<0.00198	0.0990	0.0826	83	0.0761	77	70-130	8	35	mg/kg	01.07.2021 00:49	
m,p-Xylenes	<0.00396	0.198	0.150	76	0.140	71	70-130	7	35	mg/kg	01.07.2021 00:49	
o-Xylene	<0.00198	0.0990	0.0746	75	0.0685	69	70-130	9	35	mg/kg	01.07.2021 00:49	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		96		70-130	%	01.07.2021 00:49
4-Bromofluorobenzene	103		101		70-130	%	01.07.2021 00:49

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 6903559

www.xenco.com Page 1 of 1

Project Manager:	Lindsey Nevels	Bill to: (if different)	Cambrian Management
Company Name:	Hungry Horse	Company Name:	arickard@cambrianmgmt.com
Address:	PO Box 1058	Address:	PO Box 272
City, State ZIP:	Hobbs, NM 88241	City, State ZIP:	Midland, Tx 79701
Phone:	432 241-2480	Email:	pm@hungry-horse.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	ARU #14	Turn Around	
Project Number:	Grandbanks	☑ Routine ☐ Rush	
Project Location	ARU #14	Due Date:	
Sampler's Name:	Ahston Rich	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID:	IR9
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0.5
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.2
Total Containers:		Corrected Temperature:	1.7

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: CHLORIDE	BTEX	TPH	Sample Comments
SP1		12/30/2020		Surf				X	X	X	
SP1		12/30/2020		3'				X	X	X	
SP2		12/30/2020		Surf				X	X	X	
SP2		12/30/2020		3'				X	X	X	
SP3		12/30/2020		Surf				X	X	X	
SP3		12/30/2020		3'				X	X	X	
SP4		12/30/2020		Surf				X	X	X	
SP4		12/30/2020		1'				X	X	X	
SP5		12/30/2020		Surf				X	X	X	
SP5		12/30/2020		1'				X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

~~Circle Method(s) and Metal(s) to be analyzed~~ **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: **1631 / 245.1 / 7470 / 7471**

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Ashton Rich	NR	12-31 11:30	2 NR		01-06-21
3			4		1242
5			6		

Revised Date 05012020 Rev. 2020.1


ORIGIN ID:HOBA (575) 392-7550
MAIL SERVICES ETC
4008 N GRIMES
HOBBS, NM 88240
UNITED STATES US
SHIP DATE: 05JAN21
ACTWGT: 43.00 LB MAN
CAD: 0103352/CAFE3313
DIMS: 19x17x12 IN
BILL RECIPIENT
TO XENCO HOLD FOR PICKUP
FEDEX EXPRESS SHIP CENTER
FEDEX EXPRESS SHIP CENTER
3600 COUNTY ROAD 1276 SOUTH
MIDLAND TX 79711
(432) 704-5440
INV:
PO:
REF:
DEPT:
565C1/1136/05A2
FedEx
Express
J191219082001uv
WED - 06 JAN HOLD
STANDARD OVERNIGHT
1569
MAFA
HLD
MAFA
TX-US LBB

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Hungry Horse LLC

Date/ Time Received: 01.06.2021 12.42.00 PM

Work Order #: 683559

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.7
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 01.06.2021

Brianna Teel

Checklist reviewed by: Holly Taylor Date: 01.07.2021

Holly Taylor

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Certificate of Analysis Summary 683560

Hungry Horse LLC, Hobbs, NM

Project Name: ARU #14

Project Id: ARU #14
Contact: Daniel Dominquez
Project Location: Grandbanks

Date Received in Lab: Wed 01.06.2021 12:42
Report Date: 01.13.2021 09:08
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	683560-001		683560-002		683560-003		683560-004		683560-005		683560-006	
	Field Id:	HZ1		HZ1		HZ2		HZ2		HZ3		HZ3	
	Depth:			1- ft				1- ft				1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	12.31.2020 00:00		12.31.2020 00:00		12.31.2020 00:00		12.31.2020 00:00		12.31.2020 00:00		12.31.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	01.07.2021 09:00		01.07.2021 09:00		01.07.2021 09:00		01.07.2021 09:00		01.07.2021 09:00		01.07.2021 09:00	
	Analyzed:	01.07.2021 12:21		01.07.2021 12:42		01.07.2021 13:02		01.07.2021 13:22		01.07.2021 13:43		01.07.2021 14:03	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200
m,p-Xylenes		<0.00401	0.00401	<0.00402	0.00402	<0.00403	0.00403	<0.00403	0.00403	<0.00398	0.00398	<0.00399	0.00399
o-Xylene		<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	01.08.2021 11:25		01.08.2021 11:25		01.08.2021 11:25		01.08.2021 11:25		01.08.2021 11:25		01.08.2021 11:25	
	Analyzed:	01.08.2021 21:19		01.08.2021 21:25		01.08.2021 21:30		01.08.2021 21:35		01.08.2021 21:40		01.08.2021 21:45	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		16.6	5.05	46.4	4.98	10.1	4.97	9.15	5.00	9.71	4.95	21.8	4.95
TPH By SW8015 Mod	***Extracted:***	01.08.2021 11:00		01.08.2021 11:00		01.08.2021 11:00		01.08.2021 11:00		01.08.2021 11:00		01.08.2021 11:00	
	Analyzed:	01.08.2021 19:43		01.08.2021 20:05		01.08.2021 20:27		01.08.2021 20:48		01.08.2021 21:10		01.08.2021 21:31	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<49.8	49.8	<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0
Diesel Range Organics (DRO)		<49.9	49.9	115	49.8	81.3	49.9	<50.0	50.0	52.1	49.8	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<49.8	49.8	<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0
Total TPH		<49.9	49.9	115	49.8	81.3	49.9	<50.0	50.0	52.1	49.8	<50.0	50.0

BRL - Below Reporting Limit

Holly Taylor

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 683560

for

Hungry Horse LLC

Project Manager: Daniel Dominquez

ARU #14

ARU #14

01.13.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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01.13.2021

Project Manager: **Daniel Dominquez**
Hungry Horse LLC
P. O. Box 1058
Hobbs, NM 88241

Reference: Eurofins Xenco, LLC Report No(s): **683560**
ARU #14
Project Address: Grandbanks

Daniel Dominquez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 683560. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 683560 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor

Holly Taylor
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 683560

Hungry Horse LLC, Hobbs, NM

ARU #14

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
HZ1	S	12.31.2020 00:00		683560-001
HZ1	S	12.31.2020 00:00	1 ft	683560-002
HZ2	S	12.31.2020 00:00		683560-003
HZ2	S	12.31.2020 00:00	1 ft	683560-004
HZ3	S	12.31.2020 00:00		683560-005
HZ3	S	12.31.2020 00:00	1 ft	683560-006

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CASE NARRATIVE

Client Name: Hungry Horse LLC

Project Name: ARU #14

Project ID: *ARU #14*
Work Order Number(s): *683560*

Report Date: *01.13.2021*
Date Received: *01.06.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3147092 BTEX by EPA 8021B

Lab Sample ID 683560-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Toluene recovered below QC limits in the Matrix Spike. Ethylbenzene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 683560-001, -002, -003, -004, -005, -006.

The Laboratory Control Sample for Toluene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

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Certificate of Analytical Results 683560

Hungry Horse LLC, Hobbs, NM

ARU #14

Sample Id: **HZ1** Matrix: Soil Date Received:01.06.2021 12:42

Lab Sample Id: 683560-001 Date Collected: 12.31.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.08.2021 11:25 % Moisture:

Seq Number: 3147240 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**16.6**	5.05	mg/kg	01.08.2021 21:19		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: MNR

Analyst: ARM Date Prep: 01.08.2021 11:00 % Moisture:

Seq Number: 3147377 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.08.2021 19:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.08.2021 19:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.08.2021 19:43	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.08.2021 19:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	01.08.2021 19:43	
o-Terphenyl	84-15-1	86	%	70-130	01.08.2021 19:43	

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Certificate of Analytical Results 683560

Hungry Horse LLC, Hobbs, NM

ARU #14

Sample Id:	**HZ1**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683560-001	Date Collected:	12.31.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.07.2021 09:00	% Moisture:	
Seq Number:	3147092			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.07.2021 12:21	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.07.2021 12:21	UX	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.07.2021 12:21	UX	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.07.2021 12:21	UX	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.07.2021 12:21	UX	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.07.2021 12:21	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.07.2021 12:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	01.07.2021 12:21	
1,4-Difluorobenzene	540-36-3	95	%	70-130	01.07.2021 12:21	

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Certificate of Analytical Results 683560

Hungry Horse LLC, Hobbs, NM

ARU #14

Sample Id:	**HZ1**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683560-002	Date Collected:	12.31.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	01.08.2021 11:25	% Moisture:	
Seq Number:	3147240			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**46.4**	4.98	mg/kg	01.08.2021 21:25		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	MNR				
Analyst:	ARM	Date Prep:	01.08.2021 11:00	% Moisture:	
Seq Number:	3147377			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.08.2021 20:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	**115**	49.8	mg/kg	01.08.2021 20:05		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.08.2021 20:05	U	1
Total TPH	PHC635	**115**	49.8	mg/kg	01.08.2021 20:05		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	01.08.2021 20:05	
o-Terphenyl	84-15-1	89	%	70-130	01.08.2021 20:05	

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Certificate of Analytical Results 683560

Hungry Horse LLC, Hobbs, NM

ARU #14

Sample Id:	**HZ1**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683560-002	Date Collected:	12.31.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.07.2021 09:00	% Moisture:	
Seq Number:	3147092			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.07.2021 12:42	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.07.2021 12:42	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.07.2021 12:42	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.07.2021 12:42	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.07.2021 12:42	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.07.2021 12:42	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.07.2021 12:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	01.07.2021 12:42	
1,4-Difluorobenzene	540-36-3	98	%	70-130	01.07.2021 12:42	

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Certificate of Analytical Results 683560

Hungry Horse LLC, Hobbs, NM

ARU #14

Sample Id: **HZ2** Matrix: Soil Date Received:01.06.2021 12:42

Lab Sample Id: 683560-003 Date Collected: 12.31.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.08.2021 11:25 % Moisture:

Seq Number: 3147240 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**10.1**	4.97	mg/kg	01.08.2021 21:30		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: MNR

Analyst: ARM Date Prep: 01.08.2021 11:00 % Moisture:

Seq Number: 3147377 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.08.2021 20:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	**81.3**	49.9	mg/kg	01.08.2021 20:27		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.08.2021 20:27	U	1
Total TPH	PHC635	**81.3**	49.9	mg/kg	01.08.2021 20:27		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-130	01.08.2021 20:27	
o-Terphenyl	84-15-1	104	%	70-130	01.08.2021 20:27	

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Certificate of Analytical Results 683560

Hungry Horse LLC, Hobbs, NM

ARU #14

Sample Id:	**HZ2**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683560-003	Date Collected:	12.31.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.07.2021 09:00	% Moisture:	
Seq Number:	3147092			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.07.2021 13:02	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.07.2021 13:02	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.07.2021 13:02	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.07.2021 13:02	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.07.2021 13:02	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.07.2021 13:02	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.07.2021 13:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	70-130	01.07.2021 13:02	
1,4-Difluorobenzene	540-36-3	96	%	70-130	01.07.2021 13:02	

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Certificate of Analytical Results 683560

Hungry Horse LLC, Hobbs, NM

ARU #14

Sample Id:	**HZ2**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683560-004	Date Collected:	12.31.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	01.08.2021 11:25	% Moisture:	
Seq Number:	3147240			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.15**	5.00	mg/kg	01.08.2021 21:35		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	MNR				
Analyst:	ARM	Date Prep:	01.08.2021 11:00	% Moisture:	
Seq Number:	3147377			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.08.2021 20:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.08.2021 20:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.08.2021 20:48	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.08.2021 20:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	01.08.2021 20:48	
o-Terphenyl	84-15-1	90	%	70-130	01.08.2021 20:48	

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Certificate of Analytical Results 683560

Hungry Horse LLC, Hobbs, NM

ARU #14

Sample Id:	**HZ2**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683560-004	Date Collected:	12.31.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.07.2021 09:00	% Moisture:	
Seq Number:	3147092			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.07.2021 13:22	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.07.2021 13:22	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.07.2021 13:22	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.07.2021 13:22	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.07.2021 13:22	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.07.2021 13:22	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.07.2021 13:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	01.07.2021 13:22	
4-Bromofluorobenzene	460-00-4	102	%	70-130	01.07.2021 13:22	

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Certificate of Analytical Results 683560

Hungry Horse LLC, Hobbs, NM

ARU #14

Sample Id: **HZ3** Matrix: Soil Date Received:01.06.2021 12:42

Lab Sample Id: 683560-005 Date Collected: 12.31.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.08.2021 11:25 % Moisture:

Seq Number: 3147240 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.71**	4.95	mg/kg	01.08.2021 21:40		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: MNR

Analyst: ARM Date Prep: 01.08.2021 11:00 % Moisture:

Seq Number: 3147377 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.08.2021 21:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	**52.1**	49.8	mg/kg	01.08.2021 21:10		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.08.2021 21:10	U	1
Total TPH	PHC635	**52.1**	49.8	mg/kg	01.08.2021 21:10		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	01.08.2021 21:10	
o-Terphenyl	84-15-1	92	%	70-130	01.08.2021 21:10	

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Certificate of Analytical Results 683560

Hungry Horse LLC, Hobbs, NM

ARU #14

Sample Id:	**HZ3**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683560-005	Date Collected:	12.31.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.07.2021 09:00	% Moisture:	
Seq Number:	3147092			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.07.2021 13:43	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.07.2021 13:43	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.07.2021 13:43	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.07.2021 13:43	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.07.2021 13:43	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.07.2021 13:43	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.07.2021 13:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	01.07.2021 13:43	
4-Bromofluorobenzene	460-00-4	101	%	70-130	01.07.2021 13:43	

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Certificate of Analytical Results 683560

Hungry Horse LLC, Hobbs, NM

ARU #14

Sample Id:	**HZ3**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683560-006	Date Collected:	12.31.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	01.08.2021 11:25	% Moisture:	
Seq Number:	3147240			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**21.8**	4.95	mg/kg	01.08.2021 21:45		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	MNR				
Analyst:	ARM	Date Prep:	01.08.2021 11:00	% Moisture:	
Seq Number:	3147377			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.08.2021 21:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.08.2021 21:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.08.2021 21:31	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.08.2021 21:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-130	01.08.2021 21:31	
o-Terphenyl	84-15-1	111	%	70-130	01.08.2021 21:31	

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Certificate of Analytical Results 683560

Hungry Horse LLC, Hobbs, NM

ARU #14

Sample Id:	**HZ3**	Matrix:	Soil	Date Received:	01.06.2021 12:42
Lab Sample Id:	683560-006	Date Collected:	12.31.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.07.2021 09:00	% Moisture:	
Seq Number:	3147092			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.07.2021 14:03	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.07.2021 14:03	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.07.2021 14:03	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.07.2021 14:03	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.07.2021 14:03	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.07.2021 14:03	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.07.2021 14:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	01.07.2021 14:03	
4-Bromofluorobenzene	460-00-4	104	%	70-130	01.07.2021 14:03	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 683560

Hungry Horse LLC

ARU #14

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147240 — Matrix: Solid — Date Prep: 01.08.2021
MB Sample Id: 7718726-1-BLK — LCS Sample Id: 7718726-1-BKS — LCSD Sample Id: 7718726-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	256	102	256	102	90-110	0	20	mg/kg	01.08.2021 19:19	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147240 — Matrix: Soil — Date Prep: 01.08.2021
Parent Sample Id: 683555-016 — MS Sample Id: 683555-016 S — MSD Sample Id: 683555-016 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	317	248	570	102	570	102	90-110	0	20	mg/kg	01.08.2021 19:35	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147240 — Matrix: Soil — Date Prep: 01.08.2021
Parent Sample Id: 683559-008 — MS Sample Id: 683559-008 S — MSD Sample Id: 683559-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10.4	250	273	105	272	105	90-110	0	20	mg/kg	01.08.2021 20:48	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147377 — Matrix: Solid — Date Prep: 01.08.2021
MB Sample Id: 7718850-1-BLK — LCS Sample Id: 7718850-1-BKS — LCSD Sample Id: 7718850-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	944	94	873	87	70-130	8	20	mg/kg	01.08.2021 14:21	
Diesel Range Organics (DRO)	<50.0	1000	937	94	942	94	70-130	1	20	mg/kg	01.08.2021 14:21	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	95		96		96		70-130	%	01.08.2021 14:21
o-Terphenyl	101		95		96		70-130	%	01.08.2021 14:21

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147377 — Matrix: Solid — Date Prep: 01.08.2021
MB Sample Id: 7718850-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.08.2021 13:56	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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QC Summary 683560

Hungry Horse LLC

ARU #14

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3147377 Matrix: Soil Date Prep: 01.08.2021
Parent Sample Id: 683559-002 MS Sample Id: 683559-002 S MSD Sample Id: 683559-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	1070	107	1020	102	70-130	5	20	mg/kg	01.08.2021 15:24	
Diesel Range Organics (DRO)	<49.9	998	1080	108	1000	100	70-130	8	20	mg/kg	01.08.2021 15:24	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		91		70-130	%	01.08.2021 15:24
o-Terphenyl	103		88		70-130	%	01.08.2021 15:24

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147092 Matrix: Solid Date Prep: 01.07.2021
MB Sample Id: 7718690-1-BLK LCS Sample Id: 7718690-1-BKS LCSD Sample Id: 7718690-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.101	101	0.0934	93	70-130	8	35	mg/kg	01.07.2021 10:00	
Toluene	<0.00200	0.100	0.0977	98	0.0895	90	70-130	9	35	mg/kg	01.07.2021 10:00	
Ethylbenzene	<0.00200	0.100	0.0998	100	0.0913	91	70-130	9	35	mg/kg	01.07.2021 10:00	
m,p-Xylenes	<0.00400	0.200	0.200	100	0.184	92	70-130	8	35	mg/kg	01.07.2021 10:00	
o-Xylene	<0.00200	0.100	0.100	100	0.0912	91	70-130	9	35	mg/kg	01.07.2021 10:00	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	90		99		99		70-130	%	01.07.2021 10:00
4-Bromofluorobenzene	107		98		98		70-130	%	01.07.2021 10:00

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147092 Matrix: Soil Date Prep: 01.07.2021
Parent Sample Id: 683560-001 MS Sample Id: 683560-001 S MSD Sample Id: 683560-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.0724	72	0.0755	76	70-130	4	35	mg/kg	01.07.2021 10:41	
Toluene	<0.00201	0.101	0.0655	65	0.0694	70	70-130	6	35	mg/kg	01.07.2021 10:41	X
Ethylbenzene	<0.00201	0.101	0.0609	60	0.0644	65	70-130	6	35	mg/kg	01.07.2021 10:41	X
m,p-Xylenes	<0.00402	0.201	0.125	62	0.130	66	70-130	4	35	mg/kg	01.07.2021 10:41	X
o-Xylene	<0.00201	0.101	0.0631	62	0.0653	66	70-130	3	35	mg/kg	01.07.2021 10:41	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		100		70-130	%	01.07.2021 10:41
4-Bromofluorobenzene	109		102		70-130	%	01.07.2021 10:41

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 6903560

www.xenco.com Page 1 of 1

Project Manager:	Lindsey Nevels	Bill to: (if different)	Cambrian Management
Company Name:	Hungry Horse	Company Name:	arickard@cambrianmgmt.com
Address:	PO Box 1058	Address:	PO Box 272
City, State ZIP:	Hobbs, NM 88241	City, State ZIP:	Midland, Tx 79701
Phone:	432 241-2480	Email:	pm@hungry-horse.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	ARU #14	Turn Around	
Project Number:	Grandbanks	☑ Routine ☐ Rush	
Project Location	ARU #14	Due Date:	
Sampler's Name:	Ahston Rich	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0.5
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.2
Total Containers:		Corrected Temperature:	1.7

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

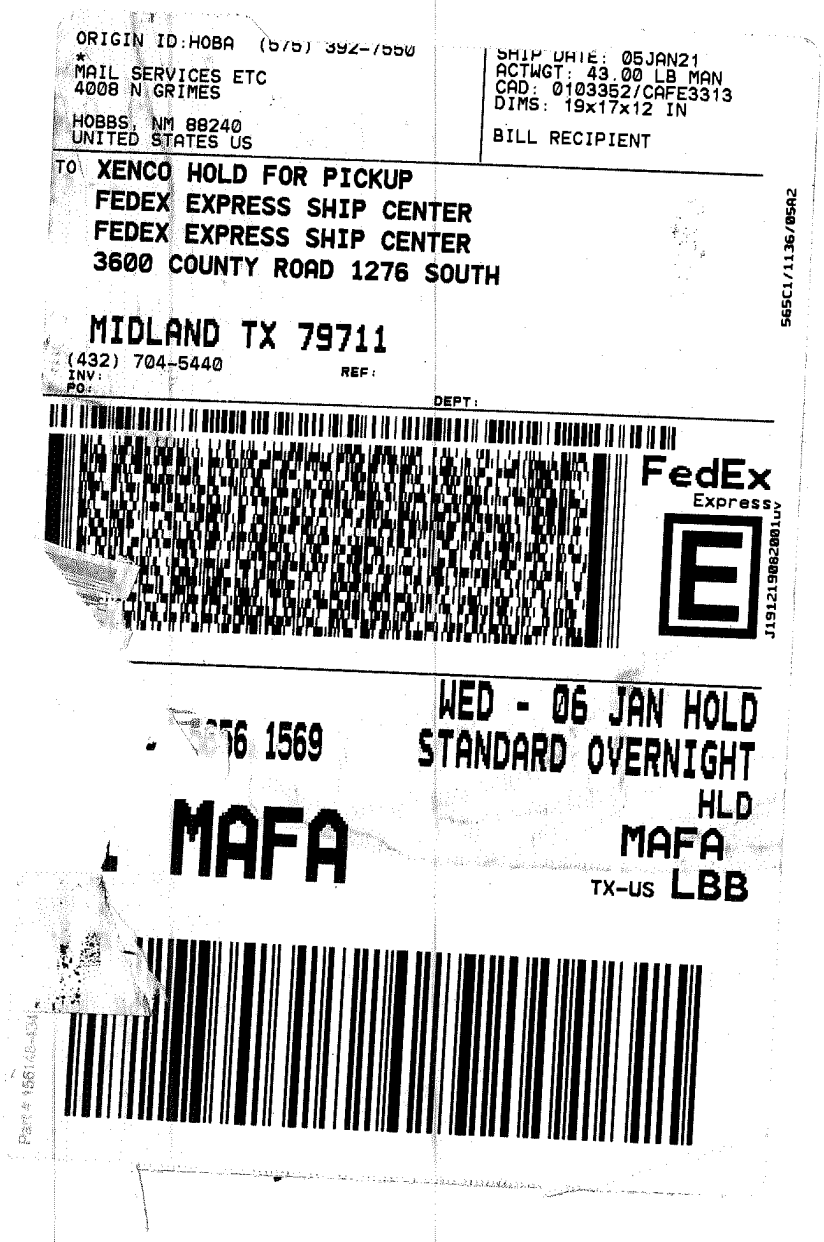
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: CHLORIDE	BTEX	TPH	Sample Comments
HZ1		12/31/2020		Surf				X	X	X	
HZ1		12/31/2020		1'				X	X	X	
HZ2		12/31/2020		Surf				X	X	X	
HZ2		12/31/2020		1'				X	X	X	
HZ3		12/31/2020		Surf				X	X	X	
HZ3		12/31/2020		1'				X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: **1631 / 245.1 / 7470 / 7471**

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Ashton Rich	NR	12-31 11:30	2 N. R	JKramer	01-06-21
3			4		1242
5			6		

Revised Date 05012020 Rev. 2020.1



ORIGIN ID:HOBA (575) 392-7550
*
MAIL SERVICES ETC
4008 N GRIMES

HOBBS, NM 88240
UNITED STATES US

SHIP DATE: 05JAN21
ACTWGT: 43.00 LB MAN
CAD: 0103352/CAFE3313
DIMS: 19x17x12 IN

BILL RECIPIENT

TO XENCO HOLD FOR PICKUP
FEDEX EXPRESS SHIP CENTER
FEDEX EXPRESS SHIP CENTER
3600 COUNTY ROAD 1276 SOUTH

MIDLAND TX 79711
(432) 704-5440
INV:
PO:
REF:
DEPT:

565C1/1136/05A2

FedEx
Express

J191219082801uv

WED - 06 JAN HOLD
STANDARD OVERNIGHT

6 1569

MAFA

HLD
MAFA
TX-US LBB

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Hungry Horse LLC

Date/ Time Received: 01.06.2021 12.42.00 PM

Work Order #: 683560

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.7
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 01.06.2021

Brianna Teel

Checklist reviewed by: Holly Taylor Date: 01.07.2021

Holly Taylor

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Certificate of Analysis Summary 685951

Hungry Horse LLC, Hobbs, NM

Project Name: ARU #14 Grandbanks

Project Id:

Contact: Daniel Dominquez

Project Location:

Date Received in Lab: Tue 01.26.2021 13:44

Report Date: 02.02.2021 11:25

Project Manager: Holly Taylor

Analysis Requested									
	Lab Id:	685951-001		685951-002					
	Field Id:	HZ/B		HZ/B					
	Depth:			1- ft					
	Matrix:	SOIL		SOIL					
	Sampled:	01.18.2021 00:00		01.18.2021 00:00					
BTEX by EPA 8021B	***Extracted:***	01.28.2021 08:00		01.28.2021 08:00					
	Analyzed:	01.29.2021 05:19		01.29.2021 07:01					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Benzene		<0.00200	0.00200	<0.00199	0.00199				
Toluene		<0.00200	0.00200	<0.00199	0.00199				
Ethylbenzene		<0.00200	0.00200	<0.00199	0.00199				
m,p-Xylenes		<0.00399	0.00399	<0.00398	0.00398				
o-Xylene		<0.00200	0.00200	<0.00199	0.00199				
Total Xylenes		<0.00200	0.00200	<0.00199	0.00199				
Total BTEX		<0.00200	0.00200	<0.00199	0.00199				
Chloride by EPA 300	***Extracted:***	01.27.2021 14:40		01.27.2021 14:40					
	Analyzed:	01.27.2021 23:31		01.27.2021 23:47					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Chloride		8.84	4.95	7.93	5.04				
TPH By SW8015 Mod	***Extracted:***	01.29.2021 17:00		01.29.2021 17:00					
	Analyzed:	01.30.2021 08:05		01.30.2021 08:27					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<49.8	49.8				
Diesel Range Organics (DRO)		<49.9	49.9	<49.8	49.8				
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<49.8	49.8				
Total TPH		<49.9	49.9	<49.8	49.8				

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 685951

for

Hungry Horse LLC

Project Manager: Daniel Dominquez

ARU #14 Grandbanks

02.02.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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02.02.2021

Project Manager: **Daniel Dominquez**
Hungry Horse LLC
P. O. Box 1058
Hobbs, NM 88241

Reference: Eurofins Xenco, LLC Report No(s): **685951**
ARU #14 Grandbanks
Project Address:

Daniel Dominquez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 685951. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 685951 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor

Holly Taylor
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 685951

Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
HZ/B	S	01.18.2021 00:00		685951-001
HZ/B	S	01.18.2021 00:00	1 ft	685951-002

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CASE NARRATIVE

Client Name: Hungry Horse LLC

Project Name: ARU #14 Grandbanks

Project ID:
Work Order Number(s): *685951*

Report Date: *02.02.2021*
Date Received: *01.26.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3149585 TPH By SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits Data confirmed by re-analysis. Samples affected are: 7720478-1-BKS.

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Certificate of Analytical Results 685951

Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id: **HZ/B** Matrix: Soil Date Received:01.26.2021 13:44

Lab Sample Id: 685951-001 Date Collected: 01.18.2021 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.27.2021 14:40 % Moisture:

Seq Number: 3149199 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.84**	4.95	mg/kg	01.27.2021 23:31		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.29.2021 17:00 % Moisture:

Seq Number: 3149585 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.30.2021 08:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.30.2021 08:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.30.2021 08:05	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.30.2021 08:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-130	01.30.2021 08:05	
o-Terphenyl	84-15-1	118	%	70-130	01.30.2021 08:05	

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Certificate of Analytical Results 685951

Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**HZ/B**	Matrix:	Soil	Date Received:	01.26.2021 13:44
Lab Sample Id:	685951-001	Date Collected:	01.18.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	01.28.2021 08:00	% Moisture:	
Seq Number:	3149283			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.29.2021 05:19	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.29.2021 05:19	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.29.2021 05:19	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.29.2021 05:19	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.29.2021 05:19	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.29.2021 05:19	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.29.2021 05:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	01.29.2021 05:19	
1,4-Difluorobenzene	540-36-3	105	%	70-130	01.29.2021 05:19	

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Certificate of Analytical Results 685951

Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**HZ/B**	Matrix:	Soil	Date Received:	01.26.2021 13:44
Lab Sample Id:	685951-002	Date Collected:	01.18.2021 00:00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	01.27.2021 14:40	% Moisture:	
Seq Number:	3149199			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7.93**	5.04	mg/kg	01.27.2021 23:47		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	01.29.2021 17:00	% Moisture:	
Seq Number:	3149585			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.30.2021 08:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.30.2021 08:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.30.2021 08:27	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.30.2021 08:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-130	01.30.2021 08:27	
o-Terphenyl	84-15-1	121	%	70-130	01.30.2021 08:27	

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Certificate of Analytical Results 685951

Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**HZ/B**	Matrix:	Soil	Date Received:	01.26.2021 13:44
Lab Sample Id:	685951-002	Date Collected:	01.18.2021 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	01.28.2021 08:00	% Moisture:	
Seq Number:	3149283			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.29.2021 07:01	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.29.2021 07:01	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.29.2021 07:01	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.29.2021 07:01	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.29.2021 07:01	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.29.2021 07:01	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.29.2021 07:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	01.29.2021 07:01	
4-Bromofluorobenzene	460-00-4	110	%	70-130	01.29.2021 07:01	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 685951

Hungry Horse LLC

ARU #14 Grandbanks

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3149199 — Matrix: Solid — Date Prep: 01.27.2021
MB Sample Id: 7720147-1-BLK — LCS Sample Id: 7720147-1-BKS — LCSD Sample Id: 7720147-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	252	101	252	101	90-110	0	20	mg/kg	01.27.2021 22:06	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3149199 — Matrix: Soil — Date Prep: 01.27.2021
Parent Sample Id: 685950-020 — MS Sample Id: 685950-020 S — MSD Sample Id: 685950-020 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	33.5	248	290	103	289	103	90-110	0	20	mg/kg	01.27.2021 22:22	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3149199 — Matrix: Soil — Date Prep: 01.27.2021
Parent Sample Id: 685951-001 — MS Sample Id: 685951-001 S — MSD Sample Id: 685951-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	8.84	248	250	97	249	97	90-110	0	20	mg/kg	01.27.2021 23:37	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3149585 — Matrix: Solid — Date Prep: 01.29.2021
MB Sample Id: 7720478-1-BLK — LCS Sample Id: 7720478-1-BKS — LCSD Sample Id: 7720478-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	967	97	923	92	70-130	5	20	mg/kg	01.30.2021 00:06	
Diesel Range Organics (DRO)	<50.0	1000	973	97	920	92	70-130	6	20	mg/kg	01.30.2021 00:06	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	82		105		97		70-130	%	01.30.2021 00:06
o-Terphenyl	118		132	**	125		70-130	%	01.30.2021 00:06

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3149585 — Matrix: Solid — Date Prep: 01.29.2021
MB Sample Id: 7720478-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.29.2021 23:44	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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QC Summary 685951

Hungry Horse LLC

ARU #14 Grandbanks

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3149585 Matrix: Soil Date Prep: 01.29.2021
Parent Sample Id: 686158-001 MS Sample Id: 686158-001 S MSD Sample Id: 686158-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	890	89	879	88	70-130	1	20	mg/kg	01.30.2021 00:49	
Diesel Range Organics (DRO)	<49.9	997	811	81	818	82	70-130	1	20	mg/kg	01.30.2021 00:49	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	78		79		70-130	%	01.30.2021 00:49
o-Terphenyl	93		95		70-130	%	01.30.2021 00:49

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3149283 Matrix: Solid Date Prep: 01.28.2021
MB Sample Id: 7720272-1-BLK LCS Sample Id: 7720272-1-BKS LCSD Sample Id: 7720272-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0801	80	0.0818	82	70-130	2	35	mg/kg	01.28.2021 22:30	
Toluene	<0.00200	0.100	0.0821	82	0.0833	83	70-130	1	35	mg/kg	01.28.2021 22:30	
Ethylbenzene	<0.00200	0.100	0.0834	83	0.0847	85	70-130	2	35	mg/kg	01.28.2021 22:30	
m,p-Xylenes	<0.00400	0.200	0.168	84	0.173	87	70-130	3	35	mg/kg	01.28.2021 22:30	
o-Xylene	<0.00200	0.100	0.0852	85	0.0885	89	70-130	4	35	mg/kg	01.28.2021 22:30	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	87		100		103		70-130	%	01.28.2021 22:30
4-Bromofluorobenzene	70		93		101		70-130	%	01.28.2021 22:30

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3149283 Matrix: Soil Date Prep: 01.28.2021
Parent Sample Id: 685950-021 MS Sample Id: 685950-021 S MSD Sample Id: 685950-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0752	75	0.0806	81	70-130	7	35	mg/kg	01.28.2021 23:21	
Toluene	0.00383	0.100	0.0804	77	0.0847	81	70-130	5	35	mg/kg	01.28.2021 23:21	
Ethylbenzene	<0.00200	0.100	0.0757	76	0.0803	80	70-130	6	35	mg/kg	01.28.2021 23:21	
m,p-Xylenes	<0.00400	0.200	0.154	77	0.163	82	70-130	6	35	mg/kg	01.28.2021 23:21	
o-Xylene	<0.00200	0.100	0.0772	77	0.0822	82	70-130	6	35	mg/kg	01.28.2021 23:21	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		104		70-130	%	01.28.2021 23:21
4-Bromofluorobenzene	101		110		70-130	%	01.28.2021 23:21

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 685951 / ~~685952~~ 1M

www.xenco.com Page _____ of _____

Project Manager:	Lindsey Nevels	Bill to: (if different)	Cambrian Mangement
Company Name:	Hungry Horse	Company Name:	arickard@cambrianmgmt.com
Address:	po Box 1058	Address:	po Box 272
City, State ZIP:	Hobbs NM 88241	City, State ZIP:	midland TX 79701
Phone:	432 241-2480	Email:	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ uperfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	ARU #14	Turn Around	
Project Number:	Grandbanks	☒ Routine ☐ Rush	
Project Location		Due Date:	
Sampler's Name:	Ashton Rich	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Received Intact:	Yes No	Thermometer ID:	IR8	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-.5	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.2	
Total Containers:		Corrected Temperature:	1.7	

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2SO_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: Chlorides	TPH	BTEX	Sample Comments
H21B		1/15/21		Surf			1	1	1	
H21B		1/15/21		1'			1	1	1	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Jessica Fuentes	1-25-21 1:23	2 Jessica Fuentes		1/26/21 1349
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Hungry Horse LLC

Date/ Time Received: 01.26.2021 01.44.00 PM

Work Order #: 685951

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.7
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 01.26.2021

Brianna Teel

Checklist reviewed by: Holly Taylor Date: 01.27.2021

Holly Taylor

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Certificate of Analysis Summary 690842

Hungry Horse LLC, Hobbs, NM

Project Name: ARU #14 Grandbanks

Project Id:

Contact: Lindsey Nevels

Project Location: ADRU #14

Date Received in Lab: Mon 03.08.2021 12:31

Report Date: 03.16.2021 10:54

Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	690842-001		690842-002		690842-003		690842-004					
	Field Id:	SW1		SW2		SW3		SW4					
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	03.05.2021 00:00		03.05.2021 00:00		03.05.2021 00:00		03.05.2021 00:00					
BTEX by EPA 8021B	***Extracted:***	03.13.2021 08:20		03.13.2021 08:20		03.13.2021 08:20		03.13.2021 08:20					
	Analyzed:	03.14.2021 04:41		03.14.2021 05:01		03.14.2021 05:22		03.14.2021 05:43					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199				
Toluene		<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199				
Ethylbenzene		<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199				
m,p-Xylenes		<0.00398	0.00398	<0.00399	0.00399	<0.00396	0.00396	<0.00398	0.00398				
o-Xylene		<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199				
Total Xylenes		<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199				
Total BTEX		<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199				
Chloride by EPA 300	***Extracted:***	03.11.2021 12:15		03.11.2021 12:15		03.11.2021 12:15		03.11.2021 12:15					
	Analyzed:	03.11.2021 14:11		03.11.2021 14:17		03.11.2021 14:22		03.11.2021 14:28					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		13.8	4.96	19.0	5.02	16.5	5.03	26.0	4.98				
TPH By SW8015 Mod	***Extracted:***	03.12.2021 16:00		03.12.2021 16:00		03.12.2021 16:00		03.12.2021 16:00					
	Analyzed:	03.12.2021 23:27		03.12.2021 23:49		03.13.2021 00:10		03.13.2021 00:31					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		236 X	49.8	<50.0	50.0	<50.0	50.0	<50.0	50.0				
Diesel Range Organics (DRO)		1110 X	49.8	95.1	50.0	<50.0	50.0	<50.0	50.0				
Motor Oil Range Hydrocarbons (MRO)		86.1	49.8	<50.0	50.0	<50.0	50.0	<50.0	50.0				
Total TPH		1430	49.8	95.1	50.0	<50.0	50.0	<50.0	50.0				

BRL - Below Reporting Limit

Holly Taylor

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 690842

for

Hungry Horse LLC

Project Manager: Lindsey Nevels

ARU #14 Grandbanks

03.16.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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03.16.2021

Project Manager: **Lindsey Nevels**
Hungry Horse LLC
P. O. Box 1058
Hobbs, NM 88241

Reference: Eurofins Xenco, LLC Report No(s): **690842**
ARU #14 Grandbanks
Project Address: ADRU #14

Lindsey Nevels:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 690842. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 690842 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor

Holly Taylor
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 690842

Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW1	S	03.05.2021 00:00		690842-001
SW2	S	03.05.2021 00:00		690842-002
SW3	S	03.05.2021 00:00		690842-003
SW4	S	03.05.2021 00:00		690842-004

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CASE NARRATIVE

Client Name: Hungry Horse LLC

Project Name: ARU #14 Grandbanks

Project ID:
Work Order Number(s): *690842*

Report Date: *03.16.2021*
Date Received: *03.08.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3153683 TPH By SW8015 Mod

Lab Sample ID 690842-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Diesel Range Organics (DRO), Gasoline Range Hydrocarbons (GRO) recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 690842-001, -002, -003, -004.

The Laboratory Control Sample for Gasoline Range Hydrocarbons (GRO), Diesel Range Organics (DRO) is within laboratory Control Limits, therefore the data was accepted.

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Certificate of Analytical Results 690842

Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**SW1**	Matrix:	Soil	Date Received:	03.08.2021 12:31
Lab Sample Id:	690842-001	Date Collected:	03.05.2021 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.11.2021 12:15	% Moisture:	
Seq Number:	3153429			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**13.8**	4.96	mg/kg	03.11.2021 14:11		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	03.12.2021 16:00	% Moisture:	
Seq Number:	3153683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**236**	49.8	mg/kg	03.12.2021 23:27	X	1
Diesel Range Organics (DRO)	C10C28DRO	**1110**	49.8	mg/kg	03.12.2021 23:27	X	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**86.1**	49.8	mg/kg	03.12.2021 23:27		1
Total TPH	PHC635	**1430**	49.8	mg/kg	03.12.2021 23:27		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-130	03.12.2021 23:27	
o-Terphenyl	84-15-1	92	%	70-130	03.12.2021 23:27	

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Certificate of Analytical Results 690842

Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**SW1**	Matrix:	Soil	Date Received:	03.08.2021 12:31
Lab Sample Id:	690842-001	Date Collected:	03.05.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	03.13.2021 08:20	% Moisture:	
Seq Number:	3153568			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.14.2021 04:41	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.14.2021 04:41	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.14.2021 04:41	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.14.2021 04:41	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.14.2021 04:41	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.14.2021 04:41	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.14.2021 04:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	03.14.2021 04:41	
4-Bromofluorobenzene	460-00-4	113	%	70-130	03.14.2021 04:41	

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Certificate of Analytical Results 690842

Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**SW2**	Matrix:	Soil	Date Received:	03.08.2021 12:31
Lab Sample Id:	690842-002	Date Collected:	03.05.2021 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.11.2021 12:15	% Moisture:	
Seq Number:	3153429			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**19.0**	5.02	mg/kg	03.11.2021 14:17		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	03.12.2021 16:00	% Moisture:	
Seq Number:	3153683			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.12.2021 23:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	**95.1**	50.0	mg/kg	03.12.2021 23:49		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.12.2021 23:49	U	1
Total TPH	PHC635	**95.1**	50.0	mg/kg	03.12.2021 23:49		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-130	03.12.2021 23:49	
o-Terphenyl	84-15-1	100	%	70-130	03.12.2021 23:49	

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Certificate of Analytical Results 690842

Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**SW2**	Matrix:	Soil	Date Received:	03.08.2021 12:31
Lab Sample Id:	690842-002	Date Collected:	03.05.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	03.13.2021 08:20	% Moisture:	
Seq Number:	3153568			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.14.2021 05:01	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.14.2021 05:01	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.14.2021 05:01	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.14.2021 05:01	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.14.2021 05:01	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.14.2021 05:01	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.14.2021 05:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	03.14.2021 05:01	
1,4-Difluorobenzene	540-36-3	100	%	70-130	03.14.2021 05:01	

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Certificate of Analytical Results 690842

Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id: **SW3** Matrix: Soil Date Received:03.08.2021 12:31

Lab Sample Id: 690842-003 Date Collected: 03.05.2021 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 03.11.2021 12:15 % Moisture:

Seq Number: 3153429 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**16.5**	5.03	mg/kg	03.11.2021 14:22		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 03.12.2021 16:00 % Moisture:

Seq Number: 3153683 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.13.2021 00:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.13.2021 00:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.13.2021 00:10	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.13.2021 00:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-130	03.13.2021 00:10	
o-Terphenyl	84-15-1	96	%	70-130	03.13.2021 00:10	

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Certificate of Analytical Results 690842

Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**SW3**	Matrix:	Soil	Date Received:	03.08.2021 12:31
Lab Sample Id:	690842-003	Date Collected:	03.05.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	03.13.2021 08:20	% Moisture:	
Seq Number:	3153568			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.14.2021 05:22	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.14.2021 05:22	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.14.2021 05:22	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	03.14.2021 05:22	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.14.2021 05:22	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	03.14.2021 05:22	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.14.2021 05:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	03.14.2021 05:22	
4-Bromofluorobenzene	460-00-4	107	%	70-130	03.14.2021 05:22	

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Certificate of Analytical Results 690842

Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id: **SW4** Matrix: Soil Date Received:03.08.2021 12:31

Lab Sample Id: 690842-004 Date Collected: 03.05.2021 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 03.11.2021 12:15 % Moisture:

Seq Number: 3153429 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**26.0**	4.98	mg/kg	03.11.2021 14:28		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 03.12.2021 16:00 % Moisture:

Seq Number: 3153683 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.13.2021 00:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.13.2021 00:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.13.2021 00:31	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.13.2021 00:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-130	03.13.2021 00:31	
o-Terphenyl	84-15-1	87	%	70-130	03.13.2021 00:31	

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Certificate of Analytical Results 690842

Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**SW4**	Matrix:	Soil	Date Received:	03.08.2021 12:31
Lab Sample Id:	690842-004	Date Collected:	03.05.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	03.13.2021 08:20	% Moisture:	
Seq Number:	3153568			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.14.2021 05:43	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.14.2021 05:43	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.14.2021 05:43	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.14.2021 05:43	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.14.2021 05:43	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.14.2021 05:43	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.14.2021 05:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	03.14.2021 05:43	
1,4-Difluorobenzene	540-36-3	101	%	70-130	03.14.2021 05:43	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 690842

Hungry Horse LLC

ARU #14 Grandbanks

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3153429 — Matrix: Solid — Date Prep: 03.11.2021
MB Sample Id: 7723064-1-BLK — LCS Sample Id: 7723064-1-BKS — LCSD Sample Id: 7723064-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	253	101	254	102	90-110	0	20	mg/kg	03.11.2021 12:59	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3153429 — Matrix: Soil — Date Prep: 03.11.2021
Parent Sample Id: 690834-033 — MS Sample Id: 690834-033 S — MSD Sample Id: 690834-033 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	524	253	768	96	767	96	90-110	0	20	mg/kg	03.11.2021 13:16	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3153429 — Matrix: Soil — Date Prep: 03.11.2021
Parent Sample Id: 690842-004 — MS Sample Id: 690842-004 S — MSD Sample Id: 690842-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	26.0	249	292	107	292	107	90-110	0	20	mg/kg	03.11.2021 14:33	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3153683 — Matrix: Solid — Date Prep: 03.12.2021
MB Sample Id: 7723247-1-BLK — LCS Sample Id: 7723247-1-BKS — LCSD Sample Id: 7723247-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	961	96	965	97	70-130	0	20	mg/kg	03.12.2021 21:39	
Diesel Range Organics (DRO)	<50.0	1000	949	95	952	95	70-130	0	20	mg/kg	03.12.2021 21:39	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	94		111		111		70-130	%	03.12.2021 21:39
o-Terphenyl	90		91		91		70-130	%	03.12.2021 21:39

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3153683 — Matrix: Solid — Date Prep: 03.12.2021
MB Sample Id: 7723247-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.12.2021 21:18	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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QC Summary 690842

Hungry Horse LLC

ARU #14 Grandbanks

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3153683 Matrix: Soil Date Prep: 03.12.2021
Parent Sample Id: 690842-001 MS Sample Id: 690842-001 S MSD Sample Id: 690842-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	236	998	868	63	890	66	70-130	3	20	mg/kg	03.12.2021 22:44	X
Diesel Range Organics (DRO)	1110	998	1550	44	1630	52	70-130	5	20	mg/kg	03.12.2021 22:44	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	103		107		70-130	%	03.12.2021 22:44
o-Terphenyl	80		77		70-130	%	03.12.2021 22:44

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3153568 Matrix: Solid Date Prep: 03.13.2021
MB Sample Id: 7723264-1-BLK LCS Sample Id: 7723264-1-BKS LCSD Sample Id: 7723264-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.109	109	0.118	118	70-130	8	35	mg/kg	03.13.2021 19:08	
Toluene	<0.00200	0.100	0.103	103	0.112	112	70-130	8	35	mg/kg	03.13.2021 19:08	
Ethylbenzene	<0.00200	0.100	0.101	101	0.111	111	70-130	9	35	mg/kg	03.13.2021 19:08	
m,p-Xylenes	<0.00400	0.200	0.203	102	0.226	113	70-130	11	35	mg/kg	03.13.2021 19:08	
o-Xylene	<0.00200	0.100	0.100	100	0.110	110	70-130	10	35	mg/kg	03.13.2021 19:08	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	90		105		105		70-130	%	03.13.2021 19:08
4-Bromofluorobenzene	115		103		108		70-130	%	03.13.2021 19:08

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3153568 Matrix: Soil Date Prep: 03.13.2021
Parent Sample Id: 690945-058 MS Sample Id: 690945-058 S MSD Sample Id: 690945-058 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0992	0.0869	88	0.0812	81	70-130	7	35	mg/kg	03.13.2021 19:49	
Toluene	<0.00198	0.0992	0.0830	84	0.0858	86	70-130	3	35	mg/kg	03.13.2021 19:49	
Ethylbenzene	<0.00198	0.0992	0.0887	89	0.0813	81	70-130	9	35	mg/kg	03.13.2021 19:49	
m,p-Xylenes	<0.00397	0.198	0.169	85	0.155	78	70-130	9	35	mg/kg	03.13.2021 19:49	
o-Xylene	<0.00198	0.0992	0.0853	86	0.0700	70	70-130	20	35	mg/kg	03.13.2021 19:49	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		101		70-130	%	03.13.2021 19:49
4-Bromofluorobenzene	102		100		70-130	%	03.13.2021 19:49

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 6908427

www.xenco.com Page 1 of 1

Project Manager:	Lindsey Nevels	Bill to: (if different)	Cambrian Management
Company Name:	Hungry Horse	Company Name:	Arickard@cambrianmgmt.com
Address:	PO Box 1058	Address:	PO Box 272
City, State ZIP:	Hobbs, NM 88241	City, State ZIP:	Midland, Tx 79701
Phone:	432 241-2480	Email:	pm@hungry-horse.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	ARU #14	Turn Around	
Project Number:	Grandbanks	☑ Routine ☐ Rush	
Project Location	ARU #14	Due Date:	
Sampler's Name:	Bradley Wells	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0.5
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	2.2
Total Containers:		Corrected Temperature:	2.7

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDE	BTEX	TPH
SW1		3/5/2021		1.5				X	X	X
SW2		3/5/2021		1.5				X	X	X
SW3		3/5/2021		1.5				X	X	X
SW4		3/5/2021		1.5				X	X	X

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

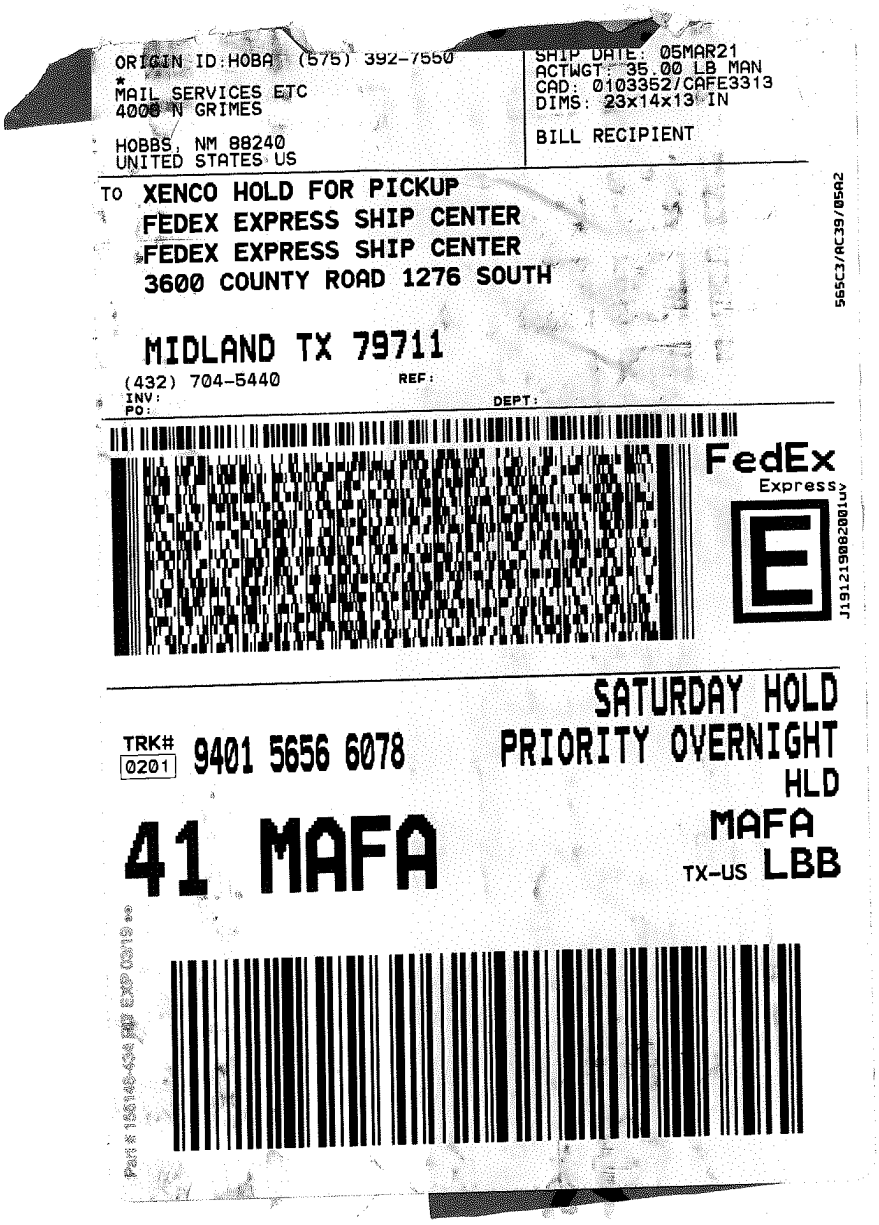
Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: **1631 / 245.1 / 7470 / 7471**

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		Jessica Tuckett	3/5 2:00	2 Jessica Tuckett		3/8/21
3				4		1231
5				6		

Revised Date 05012020 Rev. 2020.1



ORIGIN ID:HOBA (575) 392-7550
*
MAIL SERVICES ETC
4008 N GRIMES

HOBBS, NM 88240
UNITED STATES US

SHIP DATE: 05MAR21
ACTWGT: 35.00 LB MAN
CAD: 0103352/CAFE3313
DIMS: 23x14x13 IN

BILL RECIPIENT

TO XENCO HOLD FOR PICKUP
FEDEX EXPRESS SHIP CENTER
FEDEX EXPRESS SHIP CENTER
3600 COUNTY ROAD 1276 SOUTH

MIDLAND TX 79711

(432) 704-5440 REF:
INV:
PO: DEPT:

565C3/AC39/05A2

FedEx
Express

J191219082001uv

SATURDAY HOLD
PRIORITY OVERNIGHT

TRK# 0201 9401 5656 6078

HLD

41 MAFA

MAFA
TX-US LBB

Part # 155145-434 REV EXP 03/19 **

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Hungry Horse LLC

Date/ Time Received: 03.08.2021 12.31.00 PM

Work Order #: 690842

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.7
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by: Brianna Teel — Date: 03.08.2021

Brianna Teel

Checklist reviewed by: Holly Taylor — Date: 03.11.2021

Holly Taylor

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Certificate of Analysis Summary 690845

Hungry Horse LLC, Hobbs, NM

Project Name: ARU #14 Grandbanks

Project Id:

Contact: Lindsey Nevels

Project Location: ADRU #14

Date Received in Lab: Mon 03.08.2021 12:31

Report Date: 03.15.2021 17:09

Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	690845-001		690845-002		690845-003		690845-004		690845-005		690845-006	
	Field Id:	FL1		FL2		FL3		FL4		FL5		FL6	
	Depth:	3- ft		3- ft		3- ft		3- ft		3- ft		3- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	03.05.2021 00:00		03.05.2021 00:00		03.05.2021 00:00		03.05.2021 00:00		03.05.2021 00:00		03.05.2021 00:00	
BTEX by EPA 8021B	***Extracted:***	03.13.2021 08:20		03.13.2021 10:00		03.13.2021 10:00		03.13.2021 10:00		03.13.2021 10:00		03.13.2021 10:00	
	Analyzed:	03.14.2021 06:03		03.14.2021 09:28		03.14.2021 09:49		03.14.2021 10:10		03.14.2021 10:30		03.14.2021 10:51	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00400	0.00400	<0.00403	0.00403	<0.00398	0.00398	<0.00402	0.00402	<0.00400	0.00400	<0.00399	0.00399
o-Xylene		<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	03.11.2021 12:15		03.11.2021 12:15		03.11.2021 12:15		03.11.2021 12:15		03.11.2021 12:15		03.11.2021 12:15	
	Analyzed:	03.11.2021 14:44		03.11.2021 14:50		03.11.2021 15:06		03.11.2021 15:12		03.11.2021 15:17		03.11.2021 15:23	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		13.5	4.95	<4.97	4.97	12.4	4.97	15.1	4.97	16.7	5.04	18.4	4.98
TPH By SW8015 Mod	***Extracted:***	03.09.2021 17:00		03.09.2021 17:00		03.09.2021 17:00		03.09.2021 17:00		03.09.2021 17:00		03.09.2021 17:00	
	Analyzed:	03.09.2021 21:57		03.09.2021 23:00		03.09.2021 23:21		03.09.2021 23:42		03.10.2021 00:03		03.10.2021 00:24	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.9	49.9
Diesel Range Organics (DRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.9	49.9
Total TPH		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.9	49.9

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Certificate of Analysis Summary 690845

Hungry Horse LLC, Hobbs, NM

Project Name: ARU #14 Grandbanks

Project Id:

Contact: Lindsey Nevels

Project Location: ADRU #14

Date Received in Lab: Mon 03.08.2021 12:31

Report Date: 03.15.2021 17:09

Project Manager: Holly Taylor

Analysis Requested											
	Lab Id:	690845-007		690845-008		690845-009					
	Field Id:	FL7		FL8		FL9					
	Depth:	3- ft		3- ft		3- ft					
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	03.05.2021 00:00		03.05.2021 00:00		03.05.2021 00:00					
BTEX by EPA 8021B	***Extracted:***	03.13.2021 10:00		03.13.2021 10:00		03.13.2021 10:00					
	Analyzed:	03.14.2021 11:11		03.14.2021 11:32		03.14.2021 11:53					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00198	0.00198	<0.00202	0.00202	<0.00200	0.00200				
Toluene		<0.00198	0.00198	<0.00202	0.00202	<0.00200	0.00200				
Ethylbenzene		<0.00198	0.00198	<0.00202	0.00202	<0.00200	0.00200				
m,p-Xylenes		<0.00397	0.00397	<0.00403	0.00403	<0.00399	0.00399				
o-Xylene		<0.00198	0.00198	<0.00202	0.00202	<0.00200	0.00200				
Total Xylenes		<0.00198	0.00198	<0.00202	0.00202	<0.00200	0.00200				
Total BTEX		<0.00198	0.00198	<0.00202	0.00202	<0.00200	0.00200				
Chloride by EPA 300	***Extracted:***	03.11.2021 12:15		03.11.2021 12:15		03.11.2021 12:15					
	Analyzed:	03.11.2021 15:28		03.11.2021 15:34		03.11.2021 15:40					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		<5.00	5.00	13.9	5.00	16.2	5.00				
TPH By SW8015 Mod	***Extracted:***	03.09.2021 17:00		03.09.2021 17:00		03.09.2021 17:00					
	Analyzed:	03.10.2021 00:45		03.10.2021 01:06		03.10.2021 01:27					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0				
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0				
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0				
Total TPH		<50.0	50.0	<49.9	49.9	<50.0	50.0				

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 690845

for

Hungry Horse LLC

Project Manager: Lindsey Nevels

ARU #14 Grandbanks

03.15.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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03.15.2021

Project Manager: **Lindsey Nevels**
Hungry Horse LLC
P. O. Box 1058
Hobbs, NM 88241

Reference: Eurofins Xenco, LLC Report No(s): **690845**
ARU #14 Grandbanks
Project Address: ADRU #14

Lindsey Nevels:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 690845. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 690845 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor

Holly Taylor
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 690845

Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FL1	S	03.05.2021 00:00	3 ft	690845-001
FL2	S	03.05.2021 00:00	3 ft	690845-002
FL3	S	03.05.2021 00:00	3 ft	690845-003
FL4	S	03.05.2021 00:00	3 ft	690845-004
FL5	S	03.05.2021 00:00	3 ft	690845-005
FL6	S	03.05.2021 00:00	3 ft	690845-006
FL7	S	03.05.2021 00:00	3 ft	690845-007
FL8	S	03.05.2021 00:00	3 ft	690845-008
FL9	S	03.05.2021 00:00	3 ft	690845-009

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CASE NARRATIVE

Client Name: Hungry Horse LLC

Project Name: ARU #14 Grandbanks

Project ID:
Work Order Number(s): *690845*

Report Date: *03.15.2021*
Date Received: *03.08.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 690845

Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**FL1**	Matrix:	Soil	Date Received:	03.08.2021 12:31
Lab Sample Id:	690845-001	Date Collected:	03.05.2021 00:00	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.11.2021 12:15	% Moisture:	
Seq Number:	3153429			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**13.5**	4.95	mg/kg	03.11.2021 14:44		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	03.09.2021 17:00	% Moisture:	
Seq Number:	3153145			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.09.2021 21:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.09.2021 21:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.09.2021 21:57	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.09.2021 21:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	03.09.2021 21:57	
o-Terphenyl	84-15-1	84	%	70-130	03.09.2021 21:57	

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Certificate of Analytical Results 690845

Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**FL1**	Matrix:	Soil	Date Received:	03.08.2021 12:31
Lab Sample Id:	690845-001	Date Collected:	03.05.2021 00:00	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	03.13.2021 08:20	% Moisture:	
Seq Number:	3153568			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.14.2021 06:03	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.14.2021 06:03	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.14.2021 06:03	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	03.14.2021 06:03	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.14.2021 06:03	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.14.2021 06:03	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.14.2021 06:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	03.14.2021 06:03	
4-Bromofluorobenzene	460-00-4	109	%	70-130	03.14.2021 06:03	

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Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**FL2**	Matrix:	Soil	Date Received:	03.08.2021 12:31
Lab Sample Id:	690845-002	Date Collected:	03.05.2021 00:00	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.11.2021 12:15	% Moisture:	
Seq Number:	3153429			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.97	4.97	mg/kg	03.11.2021 14:50	U	1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	03.09.2021 17:00	% Moisture:	
Seq Number:	3153145			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.09.2021 23:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.09.2021 23:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.09.2021 23:00	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.09.2021 23:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	03.09.2021 23:00	
o-Terphenyl	84-15-1	89	%	70-130	03.09.2021 23:00	

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Certificate of Analytical Results 690845

Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**FL2**	Matrix:	Soil	Date Received:	03.08.2021 12:31
Lab Sample Id:	690845-002	Date Collected:	03.05.2021 00:00	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	03.13.2021 10:00	% Moisture:	
Seq Number:	3153569			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	03.14.2021 09:28	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	03.14.2021 09:28	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	03.14.2021 09:28	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	03.14.2021 09:28	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	03.14.2021 09:28	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	03.14.2021 09:28	U	1
Total BTEX		<0.00202	0.00202	mg/kg	03.14.2021 09:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	90	%	70-130	03.14.2021 09:28	
4-Bromofluorobenzene	460-00-4	95	%	70-130	03.14.2021 09:28	

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Certificate of Analytical Results 690845

Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**FL3**	Matrix:	Soil	Date Received:	03.08.2021 12:31
Lab Sample Id:	690845-003	Date Collected:	03.05.2021 00:00	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.11.2021 12:15	% Moisture:	
Seq Number:	3153429			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**12.4**	4.97	mg/kg	03.11.2021 15:06		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	03.09.2021 17:00	% Moisture:	
Seq Number:	3153145			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.09.2021 23:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.09.2021 23:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.09.2021 23:21	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.09.2021 23:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	03.09.2021 23:21	
o-Terphenyl	84-15-1	82	%	70-130	03.09.2021 23:21	

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Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**FL3**	Matrix:	Soil	Date Received:	03.08.2021 12:31
Lab Sample Id:	690845-003	Date Collected:	03.05.2021 00:00	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	03.13.2021 10:00	% Moisture:	
Seq Number:	3153569			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.14.2021 09:49	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.14.2021 09:49	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.14.2021 09:49	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.14.2021 09:49	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.14.2021 09:49	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.14.2021 09:49	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.14.2021 09:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	03.14.2021 09:49	
4-Bromofluorobenzene	460-00-4	98	%	70-130	03.14.2021 09:49	

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Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**FL4**	Matrix:	Soil	Date Received:	03.08.2021 12:31
Lab Sample Id:	690845-004	Date Collected:	03.05.2021 00:00	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.11.2021 12:15	% Moisture:	
Seq Number:	3153429			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**15.1**	4.97	mg/kg	03.11.2021 15:12		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	03.09.2021 17:00	% Moisture:	
Seq Number:	3153145			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.09.2021 23:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.09.2021 23:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.09.2021 23:42	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.09.2021 23:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-130	03.09.2021 23:42	
o-Terphenyl	84-15-1	86	%	70-130	03.09.2021 23:42	

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Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**FL4**	Matrix:	Soil	Date Received:	03.08.2021 12:31
Lab Sample Id:	690845-004	Date Collected:	03.05.2021 00:00	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	03.13.2021 10:00	% Moisture:	
Seq Number:	3153569			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.14.2021 10:10	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.14.2021 10:10	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.14.2021 10:10	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.14.2021 10:10	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.14.2021 10:10	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	03.14.2021 10:10	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.14.2021 10:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	03.14.2021 10:10	
1,4-Difluorobenzene	540-36-3	97	%	70-130	03.14.2021 10:10	

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Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**FL5**	Matrix:	Soil	Date Received:	03.08.2021 12:31
Lab Sample Id:	690845-005	Date Collected:	03.05.2021 00:00	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.11.2021 12:15	% Moisture:	
Seq Number:	3153429			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**16.7**	5.04	mg/kg	03.11.2021 15:17		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	03.09.2021 17:00	% Moisture:	
Seq Number:	3153145			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.10.2021 00:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.10.2021 00:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.10.2021 00:03	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.10.2021 00:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	03.10.2021 00:03	
o-Terphenyl	84-15-1	80	%	70-130	03.10.2021 00:03	

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Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**FL5**	Matrix:	Soil	Date Received:	03.08.2021 12:31
Lab Sample Id:	690845-005	Date Collected:	03.05.2021 00:00	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	03.13.2021 10:00	% Moisture:	
Seq Number:	3153569			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.14.2021 10:30	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.14.2021 10:30	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.14.2021 10:30	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	03.14.2021 10:30	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.14.2021 10:30	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.14.2021 10:30	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.14.2021 10:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	03.14.2021 10:30	
1,4-Difluorobenzene	540-36-3	100	%	70-130	03.14.2021 10:30	

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Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**FL6**	Matrix:	Soil	Date Received:	03.08.2021 12:31
Lab Sample Id:	690845-006	Date Collected:	03.05.2021 00:00	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.11.2021 12:15	% Moisture:	
Seq Number:	3153429			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**18.4**	4.98	mg/kg	03.11.2021 15:23		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	03.09.2021 17:00	% Moisture:	
Seq Number:	3153145			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.10.2021 00:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.10.2021 00:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.10.2021 00:24	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.10.2021 00:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-130	03.10.2021 00:24	
o-Terphenyl	84-15-1	76	%	70-130	03.10.2021 00:24	

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Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**FL6**	Matrix:	Soil	Date Received:	03.08.2021 12:31
Lab Sample Id:	690845-006	Date Collected:	03.05.2021 00:00	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	03.13.2021 10:00	% Moisture:	
Seq Number:	3153569			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.14.2021 10:51	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.14.2021 10:51	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.14.2021 10:51	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.14.2021 10:51	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.14.2021 10:51	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.14.2021 10:51	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.14.2021 10:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	03.14.2021 10:51	
4-Bromofluorobenzene	460-00-4	111	%	70-130	03.14.2021 10:51	

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Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**FL7**	Matrix:	Soil	Date Received:	03.08.2021 12:31
Lab Sample Id:	690845-007	Date Collected:	03.05.2021 00:00	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.11.2021 12:15	% Moisture:	
Seq Number:	3153429			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	03.11.2021 15:28	U	1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	03.09.2021 17:00	% Moisture:	
Seq Number:	3153145			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.10.2021 00:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.10.2021 00:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.10.2021 00:45	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.10.2021 00:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	03.10.2021 00:45	
o-Terphenyl	84-15-1	89	%	70-130	03.10.2021 00:45	

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Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**FL7**	Matrix:	Soil	Date Received:	03.08.2021 12:31
Lab Sample Id:	690845-007	Date Collected:	03.05.2021 00:00	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	03.13.2021 10:00	% Moisture:	
Seq Number:	3153569			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.14.2021 11:11	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.14.2021 11:11	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.14.2021 11:11	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	03.14.2021 11:11	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.14.2021 11:11	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	03.14.2021 11:11	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.14.2021 11:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	70-130	03.14.2021 11:11	
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.14.2021 11:11	

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Certificate of Analytical Results 690845

Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**FL8**	Matrix:	Soil	Date Received:	03.08.2021 12:31
Lab Sample Id:	690845-008	Date Collected:	03.05.2021 00:00	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.11.2021 12:15	% Moisture:	
Seq Number:	3153429			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**13.9**	5.00	mg/kg	03.11.2021 15:34		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	03.09.2021 17:00	% Moisture:	
Seq Number:	3153145			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.10.2021 01:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.10.2021 01:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.10.2021 01:06	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.10.2021 01:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	03.10.2021 01:06	
o-Terphenyl	84-15-1	78	%	70-130	03.10.2021 01:06	

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Certificate of Analytical Results 690845

Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**FL8**	Matrix:	Soil	Date Received:	03.08.2021 12:31
Lab Sample Id:	690845-008	Date Collected:	03.05.2021 00:00	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	03.13.2021 10:00	% Moisture:	
Seq Number:	3153569			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	03.14.2021 11:32	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	03.14.2021 11:32	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	03.14.2021 11:32	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	03.14.2021 11:32	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	03.14.2021 11:32	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	03.14.2021 11:32	U	1
Total BTEX		<0.00202	0.00202	mg/kg	03.14.2021 11:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	03.14.2021 11:32	
4-Bromofluorobenzene	460-00-4	109	%	70-130	03.14.2021 11:32	

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Certificate of Analytical Results 690845

Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**FL9**	Matrix:	Soil	Date Received:	03.08.2021 12:31
Lab Sample Id:	690845-009	Date Collected:	03.05.2021 00:00	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.11.2021 12:15	% Moisture:	
Seq Number:	3153429			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**16.2**	5.00	mg/kg	03.11.2021 15:40		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	03.09.2021 17:00	% Moisture:	
Seq Number:	3153145			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.10.2021 01:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.10.2021 01:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.10.2021 01:27	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.10.2021 01:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	03.10.2021 01:27	
o-Terphenyl	84-15-1	82	%	70-130	03.10.2021 01:27	

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Certificate of Analytical Results 690845

Hungry Horse LLC, Hobbs, NM

ARU #14 Grandbanks

Sample Id:	**FL9**	Matrix:	Soil	Date Received:	03.08.2021 12:31
Lab Sample Id:	690845-009	Date Collected:	03.05.2021 00:00	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	03.13.2021 10:00	% Moisture:	
Seq Number:	3153569			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.14.2021 11:53	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.14.2021 11:53	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.14.2021 11:53	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.14.2021 11:53	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.14.2021 11:53	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.14.2021 11:53	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.14.2021 11:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	109	%	70-130	03.14.2021 11:53	
4-Bromofluorobenzene	460-00-4	113	%	70-130	03.14.2021 11:53	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 690845

Hungry Horse LLC

ARU #14 Grandbanks

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3153429 — Matrix: Solid — Date Prep: 03.11.2021
MB Sample Id: 7723064-1-BLK — LCS Sample Id: 7723064-1-BKS — LCSD Sample Id: 7723064-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	253	101	254	102	90-110	0	20	mg/kg	03.11.2021 12:59	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3153429 — Matrix: Soil — Date Prep: 03.11.2021
Parent Sample Id: 690834-033 — MS Sample Id: 690834-033 S — MSD Sample Id: 690834-033 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	524	253	768	96	767	96	90-110	0	20	mg/kg	03.11.2021 13:16	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3153429 — Matrix: Soil — Date Prep: 03.11.2021
Parent Sample Id: 690842-004 — MS Sample Id: 690842-004 S — MSD Sample Id: 690842-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	26.0	249	292	107	292	107	90-110	0	20	mg/kg	03.11.2021 14:33	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3153145 — Matrix: Solid — Date Prep: 03.09.2021
MB Sample Id: 7722925-1-BLK — LCS Sample Id: 7722925-1-BKS — LCSD Sample Id: 7722925-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1100	110	1030	103	70-130	7	20	mg/kg	03.09.2021 21:15	
Diesel Range Organics (DRO)	<50.0	1000	1030	103	984	98	70-130	5	20	mg/kg	03.09.2021 21:15	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	97		105		96		70-130	%	03.09.2021 21:15
o-Terphenyl	96		84		83		70-130	%	03.09.2021 21:15

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3153145 — Matrix: Solid — Date Prep: 03.09.2021
MB Sample Id: 7722925-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.09.2021 20:54	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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QC Summary 690845

Hungry Horse LLC

ARU #14 Grandbanks

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P

Seq Number: 3153145 Matrix: Soil Date Prep: 03.09.2021

Parent Sample Id: 690845-001 MS Sample Id: 690845-001 S MSD Sample Id: 690845-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	1040	104	983	98	70-130	6	20	mg/kg	03.09.2021 22:18	
Diesel Range Organics (DRO)	<49.9	998	952	95	910	91	70-130	5	20	mg/kg	03.09.2021 22:18	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	95		88		70-130	%	03.09.2021 22:18
o-Terphenyl	73		70		70-130	%	03.09.2021 22:18

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A

Seq Number: 3153568 Matrix: Solid Date Prep: 03.13.2021

MB Sample Id: 7723264-1-BLK LCS Sample Id: 7723264-1-BKS LCSD Sample Id: 7723264-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.109	109	0.118	118	70-130	8	35	mg/kg	03.13.2021 19:08	
Toluene	<0.00200	0.100	0.103	103	0.112	112	70-130	8	35	mg/kg	03.13.2021 19:08	
Ethylbenzene	<0.00200	0.100	0.101	101	0.111	111	70-130	9	35	mg/kg	03.13.2021 19:08	
m,p-Xylenes	<0.00400	0.200	0.203	102	0.226	113	70-130	11	35	mg/kg	03.13.2021 19:08	
o-Xylene	<0.00200	0.100	0.100	100	0.110	110	70-130	10	35	mg/kg	03.13.2021 19:08	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	90		105		105		70-130	%	03.13.2021 19:08
4-Bromofluorobenzene	115		103		108		70-130	%	03.13.2021 19:08

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A

Seq Number: 3153569 Matrix: Solid Date Prep: 03.13.2021

MB Sample Id: 7723265-1-BLK LCS Sample Id: 7723265-1-BKS LCSD Sample Id: 7723265-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.100	100	0.107	107	70-130	7	35	mg/kg	03.14.2021 07:05	
Toluene	<0.00200	0.100	0.0939	94	0.102	102	70-130	8	35	mg/kg	03.14.2021 07:05	
Ethylbenzene	<0.00200	0.100	0.0911	91	0.0998	100	70-130	9	35	mg/kg	03.14.2021 07:05	
m,p-Xylenes	<0.00400	0.200	0.181	91	0.196	98	70-130	8	35	mg/kg	03.14.2021 07:05	
o-Xylene	<0.00200	0.100	0.0895	90	0.0952	95	70-130	6	35	mg/kg	03.14.2021 07:05	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	92		100		110		70-130	%	03.14.2021 07:05
4-Bromofluorobenzene	117		98		104		70-130	%	03.14.2021 07:05

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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QC Summary 690845

Hungry Horse LLC

ARU #14 Grandbanks

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A

Seq Number: 3153568 Matrix: Soil Date Prep: 03.13.2021

Parent Sample Id: 690945-058 MS Sample Id: 690945-058 S MSD Sample Id: 690945-058 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0992	0.0869	88	0.0812	81	70-130	7	35	mg/kg	03.13.2021 19:49	
Toluene	<0.00198	0.0992	0.0830	84	0.0858	86	70-130	3	35	mg/kg	03.13.2021 19:49	
Ethylbenzene	<0.00198	0.0992	0.0887	89	0.0813	81	70-130	9	35	mg/kg	03.13.2021 19:49	
m,p-Xylenes	<0.00397	0.198	0.169	85	0.155	78	70-130	9	35	mg/kg	03.13.2021 19:49	
o-Xylene	<0.00198	0.0992	0.0853	86	0.0700	70	70-130	20	35	mg/kg	03.13.2021 19:49	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		101		70-130	%	03.13.2021 19:49
4-Bromofluorobenzene	102		100		70-130	%	03.13.2021 19:49

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A

Seq Number: 3153569 Matrix: Soil Date Prep: 03.13.2021

Parent Sample Id: 690845-002 MS Sample Id: 690845-002 S MSD Sample Id: 690845-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0990	0.0941	95	0.0971	97	70-130	3	35	mg/kg	03.14.2021 07:46	
Toluene	<0.00198	0.0990	0.0843	85	0.0874	87	70-130	4	35	mg/kg	03.14.2021 07:46	
Ethylbenzene	<0.00198	0.0990	0.0810	82	0.0840	84	70-130	4	35	mg/kg	03.14.2021 07:46	
m,p-Xylenes	<0.00396	0.198	0.159	80	0.166	83	70-130	4	35	mg/kg	03.14.2021 07:46	
o-Xylene	<0.00198	0.0990	0.0892	90	0.0824	82	70-130	8	35	mg/kg	03.14.2021 07:46	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		105		70-130	%	03.14.2021 07:46
4-Bromofluorobenzene	97		99		70-130	%	03.14.2021 07:46

MS/MSD Percent Recovery	[D] = 100*(C-A) / B	LCS = Laboratory Control Sample	MS = Matrix Spike
Relative Percent Difference	RPD = 200* | (C-E) / (C+E) |	A = Parent Result	B = Spike Added
LCS/LCSD Recovery	[D] = 100 * (C) / [B]	C = MS/LCS Result	D = MSD/LCSD % Rec
Log Difference	Log Diff. = Log(Sample Duplicate) - Log(Original Sample)	E = MSD/LCSD Result	

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 690845

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Project Manager:	Lindsey Nevels	Bill to: (if different)	Cambrian Management
Company Name:	Hungry Horse	Company Name:	Arickard@cambrianmgmt.com
Address:	PO Box 1058	Address:	PO Box 272
City, State ZIP:	Hobbs, NM 88241	City, State ZIP:	Midland, Tx 79701
Phone:	432 241-2480	Email:	pm@hungry-horse.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	ARU #14	Turn Around	
Project Number:	Grandbanks	☑ Routine ☐ Rush	
Project Location	ARU #14	Due Date:	
Sampler's Name:	Bradley Wells	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0.5
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	2.2
Total Containers:		Corrected Temperature:	2.7

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: CHLORIDE	BTEX	TPH	Sample Comments
FL1		3/5/2021		3'				X	X	X	
FL2		3/5/2021		3'				X	X	X	
FL3		3/5/2021		3'				X	X	X	
FL4		3/5/2021		3'				X	X	X	
FL5		3/5/2021		3'				X	X	X	
FL6		3/5/2021		3'				X	X	X	
FL7		3/5/2021		3'				X	X	X	
FL8		3/5/2021		3'				X	X	X	
FL9		3/5/2021		3'				X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: **1631 / 245.1 / 7470 / 7471**

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		Jessica Fuentes	3/5 2:00	2 Jessica Fuentes	KRAMER	3/8/21
3				4		123
5				6		

Revised Date 05012020 Rev. 2020.1

41 MAFA
TX-US LBB
MAFA
HLD
SATURDAY HOLD
PRIORITY OVERNIGHT
TRK# 9401 5656 6078
0201
FedEx Express
J191219082001v
565C3/AC39/95A2
TO XENCO HOLD FOR PICKUP
FEDEX EXPRESS SHIP CENTER
FEDEX EXPRESS SHIP CENTER
3600 COUNTY ROAD 1276 SOUTH
MIDLAND TX 79711
(432) 704-5440
REF:
INV:
PO:
DEPT:
ORIGIN ID:HOBA (575) 392-5509
MAIL SERVICES ETC
4000 N GRIMES
HOBBS, NM 88240
UNITED STATES US
SHIP DATE: 05MAR21
ACTWGT: 36.00 LB MAN
CAD: 0103652/CAFE3313
DIMS: 23x14x13 IN
BILL RECIPIENT

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Hungry Horse LLC

Date/ Time Received: 03.08.2021 12.31.00 PM

Work Order #: 690845

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.7
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 03.08.2021

Brianna Teel

Checklist reviewed by: Holly Taylor Date: 03.11.2021

Holly Taylor

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-642-1
Client Project/Site: ARU #1/Grandbanks

For:
Hungry Horse LLC
PO Box 1058
Hobbs, New Mexico 88241

Attn: Lindsey Nevels

Holly Taylor

Authorized for release by:
3/26/2021 5:31:29 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

Client: Hungry Horse LLC
Project/Site: ARU #1/Grandbanks

Laboratory Job ID: 880-642-1

Table of Contents

Definitions/Glossary

Client: Hungry Horse LLC Job ID: 880-642-1
Project/Site: ARU #1/Grandbanks

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Hungry Horse LLC
Project/Site: ARU #1/Grandbanks

Job ID: 880-642-1

Job ID: 880-642-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-642-1

Receipt
The sample was received on 3/24/2021 12:50 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Hungry Horse LLC
Project/Site: ARU #1/Grandbanks

Job ID: 880-642-1

Client Sample ID: SW1a

Lab Sample ID: 880-642-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Chloride	29.9		4.99		mg/Kg	1		300.0	Soluble

This Detection Summary does not include radiochemical test results.

Eurofins Xenco, Midland

Client Sample Results

Client: Hungry Horse LLC
Project/Site: ARU #1/Grandbanks

Job ID: 880-642-1

Client Sample ID: SW1a

Date Collected: 03/17/21 00:00
Date Received: 03/24/21 12:50

Lab Sample ID: 880-642-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/24/21 16:24	03/25/21 02:04	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/24/21 16:24	03/25/21 02:04	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/24/21 16:24	03/25/21 02:04	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		03/24/21 16:24	03/25/21 02:04	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/24/21 16:24	03/25/21 02:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/24/21 16:24	03/25/21 02:04	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/24/21 16:24	03/25/21 02:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*03/24/21 16:24*	*03/25/21 02:04*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*03/24/21 16:24*	*03/25/21 02:04*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+ *1	49.8		mg/Kg		03/24/21 17:20	03/25/21 02:28	1
Total TPH	<49.8	U	49.8		mg/Kg		03/24/21 17:20	03/25/21 02:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/24/21 17:20	03/25/21 02:28	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/24/21 17:20	03/25/21 02:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*03/24/21 17:20*	*03/25/21 02:28*	*1*
o-Terphenyl	*72*		*70 - 130*	*03/24/21 17:20*	*03/25/21 02:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29.9**		4.99		mg/Kg			03/26/21 11:26	1

Surrogate Summary

Client: Hungry Horse LLC
Project/Site: ARU #1/Grandbanks

Job ID: 880-642-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-642-1	SW1a	116	103
880-642-1 MS	SW1a	103	99
880-642-1 MSD	SW1a	104	101
LCS 880-821/1-A	Lab Control Sample	103	99
LCSD 880-821/2-A	Lab Control Sample Dup	104	96
MB 880-826/63	Method Blank	103	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-642-1	SW1a	75	72
890-372-A-1-F MS	Matrix Spike	93	83
890-372-A-1-G MSD	Matrix Spike Duplicate	92	82
LCS 880-798/2-A	Lab Control Sample	92	80
LCSD 880-798/3-A	Lab Control Sample Dup	111	100
MB 880-798/1-A	Method Blank	102	103

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Hungry Horse LLC
Project/Site: ARU #1/Grandbanks

Job ID: 880-642-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: LCS 880-821/1-A
Matrix: Solid
Analysis Batch: 826

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 821

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1082		mg/Kg		108	70 - 130		
Ethylbenzene			0.100	0.1116		mg/Kg		112	70 - 130		
Toluene			0.100	0.1091		mg/Kg		109	70 - 130		
m-Xylene & p-Xylene			0.200	0.2263		mg/Kg		113	70 - 130		
o-Xylene			0.100	0.1118		mg/Kg		112	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-821/2-A
Matrix: Solid
Analysis Batch: 826

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 821

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1043		mg/Kg		104	70 - 130	4	35
Ethylbenzene			0.100	0.1115		mg/Kg		112	70 - 130	0	35
Toluene			0.100	0.1081		mg/Kg		108	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2277		mg/Kg		114	70 - 130	1	35
o-Xylene			0.100	0.1128		mg/Kg		113	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 880-642-1 MS
Matrix: Solid
Analysis Batch: 826

Client Sample ID: SW1a
Prep Type: Total/NA
Prep Batch: 821

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00201	U	0.100	0.1068		mg/Kg		107	70 - 130		
Ethylbenzene	<0.00201	U	0.100	0.1163		mg/Kg		116	70 - 130		
Toluene	<0.00201	U	0.100	0.1119		mg/Kg		112	70 - 130		
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2379		mg/Kg		119	70 - 130		
o-Xylene	<0.00201	U	0.100	0.1161		mg/Kg		116	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-642-1 MSD
Matrix: Solid
Analysis Batch: 826

Client Sample ID: SW1a
Prep Type: Total/NA
Prep Batch: 821

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.09376		mg/Kg		93	70 - 130	13	35
Ethylbenzene	<0.00201	U	0.100	0.1013		mg/Kg		101	70 - 130	14	35
Toluene	<0.00201	U	0.100	0.09880		mg/Kg		98	70 - 130	12	35

Eurofins Xenco, Midland

QC Sample Results

Client: Hungry Horse LLC
Project/Site: ARU #1/Grandbanks

Job ID: 880-642-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-642-1 MSD
Matrix: Solid
Analysis Batch: 826

Client Sample ID: SW1a
Prep Type: Total/NA
Prep Batch: 821

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00402	U	0.201	0.2076		mg/Kg		103	70 - 130	14	35
o-Xylene	<0.00201	U	0.100	0.1008		mg/Kg		100	70 - 130	14	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 880-826/63
Matrix: Solid
Analysis Batch: 826

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			03/25/21 01:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			03/25/21 01:35	1
Toluene	<0.00200	U	0.00200		mg/Kg			03/25/21 01:35	1
Total BTEX	<0.00200	U	0.00200		mg/Kg			03/25/21 01:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			03/25/21 01:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			03/25/21 01:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			03/25/21 01:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*03/25/21 01:35*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*		*03/25/21 01:35*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-798/1-A
Matrix: Solid
Analysis Batch: 792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 798

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/24/21 09:20	03/24/21 21:09	1
Total TPH	<50.0	U	50.0		mg/Kg		03/24/21 09:20	03/24/21 21:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/24/21 09:20	03/24/21 21:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/24/21 09:20	03/24/21 21:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*03/24/21 09:20*	*03/24/21 21:09*	*1*
o-Terphenyl	*103*		*70 - 130*	*03/24/21 09:20*	*03/24/21 21:09*	*1*

Lab Sample ID: LCS 880-798/2-A
Matrix: Solid
Analysis Batch: 792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 798

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1140		mg/Kg		114	70 - 130		

QC Sample Results

Client: Hungry Horse LLC
Project/Site: ARU #1/Grandbanks

Job ID: 880-642-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-798/2-A
Matrix: Solid
Analysis Batch: 792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 798

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics (Over C10-C28)			1000	974.5		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*80*		*70 - 130*

Lab Sample ID: LCSD 880-798/3-A
Matrix: Solid
Analysis Batch: 792

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 798

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1444	*+ *1	mg/Kg		144	70 - 130	24	20
Diesel Range Organics (Over C10-C28)			1000	1117		mg/Kg		112	70 - 130	14	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: 890-372-A-1-F MS
Matrix: Solid
Analysis Batch: 792

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 798

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+ *1	1000	1141		mg/Kg		114	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	921.9		mg/Kg		92	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

Lab Sample ID: 890-372-A-1-G MSD
Matrix: Solid
Analysis Batch: 792

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 798

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+ *1	998	1047		mg/Kg		105	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	923.6		mg/Kg		93	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

QC Sample Results

Client: Hungry Horse LLC
Project/Site: ARU #1/Grandbanks

Job ID: 880-642-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-863/1-A
Matrix: Solid
Analysis Batch: 864

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/25/21 16:09	1

Lab Sample ID: LCS 880-863/2-A
Matrix: Solid
Analysis Batch: 864

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	269.1		mg/Kg		108	90 - 110		

Lab Sample ID: LCSD 880-863/3-A
Matrix: Solid
Analysis Batch: 864

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	269.8		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 880-607-A-16-F MS
Matrix: Solid
Analysis Batch: 864

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	7.57	F1	248	298.4	F1	mg/Kg		117	90 - 110		

Lab Sample ID: 880-607-A-16-G MSD
Matrix: Solid
Analysis Batch: 864

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7.57	F1	248	289.7	F1	mg/Kg		114	90 - 110	3	20

QC Association Summary

Client: Hungry Horse LLC
Project/Site: ARU #1/Grandbanks

Job ID: 880-642-1

GC VOA

Prep Batch: 821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-642-1	SW1a	Total/NA	Solid	5035	
LCS 880-821/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-821/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-642-1 MS	SW1a	Total/NA	Solid	5035	
880-642-1 MSD	SW1a	Total/NA	Solid	5035	

Analysis Batch: 826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-642-1	SW1a	Total/NA	Solid	8021B	821
MB 880-826/63	Method Blank	Total/NA	Solid	8021B	
LCS 880-821/1-A	Lab Control Sample	Total/NA	Solid	8021B	821
LCSD 880-821/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	821
880-642-1 MS	SW1a	Total/NA	Solid	8021B	821
880-642-1 MSD	SW1a	Total/NA	Solid	8021B	821

GC Semi VOA

Analysis Batch: 792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-642-1	SW1a	Total/NA	Solid	8015B NM	798
MB 880-798/1-A	Method Blank	Total/NA	Solid	8015B NM	798
LCS 880-798/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	798
LCSD 880-798/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	798
890-372-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	798
890-372-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	798

Prep Batch: 798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-642-1	SW1a	Total/NA	Solid	8015NM Prep	
MB 880-798/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-798/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-798/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-372-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-372-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-642-1	SW1a	Soluble	Solid	DI Leach	
MB 880-863/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-863/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-863/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-607-A-16-F MS	Matrix Spike	Soluble	Solid	DI Leach	
880-607-A-16-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-642-1	SW1a	Soluble	Solid	300.0	863
MB 880-863/1-A	Method Blank	Soluble	Solid	300.0	863
LCS 880-863/2-A	Lab Control Sample	Soluble	Solid	300.0	863
LCSD 880-863/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	863

QC Association Summary

Client: Hungry Horse LLC
Project/Site: ARU #1/Grandbanks

Job ID: 880-642-1

HPLC/IC (Continued)

Analysis Batch: 864 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-607-A-16-F MS	Matrix Spike	Soluble	Solid	300.0	863
880-607-A-16-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	863

Lab Chronicle

Client: Hungry Horse LLC
Project/Site: ARU #1/Grandbanks

Job ID: 880-642-1

Client Sample ID: SW1a

Date Collected: 03/17/21 00:00
Date Received: 03/24/21 12:50

Lab Sample ID: 880-642-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			821	03/24/21 16:24	MR	XM
Total/NA	Analysis	8021B		1	826	03/25/21 02:04	MR	XM
Total/NA	Prep	8015NM Prep			798	03/24/21 17:20	DM	XM
Total/NA	Analysis	8015B NM		1	792	03/25/21 02:28	AJ	XM
Soluble	Leach	DI Leach			863	03/25/21 11:20	CH	XM
Soluble	Analysis	300.0		1	864	03/26/21 11:26	WP	XM

Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Hungry Horse LLC
Project/Site: ARU #1/Grandbanks

Job ID: 880-642-1

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Hungry Horse LLC
Project/Site: ARU #1/Grandbanks

Job ID: 880-642-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
5035	Closed System Purge and Trap	SW846	XM
8015NM Prep	Microextraction	SW846	XM
DI Leach	Deionized Water Leaching Procedure	ASTM	XM

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Hungry Horse LLC
Project/Site: ARU #1/Grandbanks

Job ID: 880-642-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-642-1	SW1a	Solid	03/17/21 00:00	03/24/21 12:50	

XENCO LABORATORIES

Houston TX (2
Midland TX
Hobbs NM (
Tampa, FL (81

880-642 Chain of Custody

Atlanta G

0) 509-3334
3) 794-1296
) 355-0900
(561) 689-6701

Work Order No: 880-1042

www.xenco.com Page _____ of _____

Project Manager	Lindsey Nevels	Bill to (if different)	Cambrian Management
Company Name	Hungry Horse	Company Name	Arickard@cambrianmgmt.com
Address	PO Box 1058	Address	PO Box 272
City State ZIP	Hobbs, NM 88241	City State ZIP	Midland Tx 79701
Phone	432 241-2480	Email	pm@hungry-horse.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	ARU #14
Project Number	Grandbanks
Project Location	ARU #14
Sampler's Name	Braley Wells
PO #	

Turn Around

☐ Routine ☑ Rush

Due Date

TAT starts the day received by the lab if received by 4 30pm

SAMPLE RECEIPT			
Temp Blank	Yes (No)	Wet Ice	(Yes) No
Received Intact	(Yes) No	Thermometer ID	DR8
Cooler Custody Seals	Yes No (N/A)	Correction Factor	0.5
Sample Custody Seals	Yes No (N/A)	Temperature Reading	1.5
Total Containers		Corrected Temperature	2.0

ANALYSIS REQUEST

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: CHLORIDE	BTEX	TPH
SW1a		3-17-21		1 5			x	x	x

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1	B. Wells	Ezra Carrillo	3-23-21 4 08	2		
3				4		
5				6		

3/24/21 1250

Revised Date 05012020 Rev 2020 1

Login Sample Receipt Checklist

Client: Hungry Horse LLC

Job Number: 880-642-1
SDG Number:

Login Number: 642
List Number: 1
Creator: Teel, Brianna

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☒ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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: Andy Rickard Title: Project Manager

Signature: Andy Rickard Date: 04/05/2021

email: arickard@cambrianmgmt.com Telephone: 432-620-9181

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

☒ Detailed description of proposed remediation technique
☒ Scaled sitemap with GPS coordinates showing delineation points
☒ Estimated volume of material to be remediated
☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Andy Rickard Title: Project Manager

Signature: Andy Rickard Date: 04/05/2021

email: arickard@cambrianmgmt.com Telephone: 432-620-9181

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2035233416
District RP	
Facility ID	
Application ID	

Closure

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 (electronic submittals in .pdf format are preferred) 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.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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.

Printed Name: Andy Rickard Title: Project Manager

Signature: Andy Rickard Date: 3/29/2021

email: arickard@cambrianmgmt.com Telephone: 432-620-9181

OCD Only

Received by: Cristina Eads Date: 04/07/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Cristina Eads Date: 07/22/2021

Printed Name: Cristina Eads Title: Environmental Specialist

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

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

CONDITIONS

Operator: GRAND BANKS ENERGY CO 10 Desta Drive Midland, TX 79705	OGRID: 155471
	Action Number: 23165
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
ceads	None	7/22/2021