Remediation Summary and Closure Request

Hanson Operating Co, Inc.
Hanlad A State Battery #1
Chaves County, New Mexico
Unit Letter "I", Section 28, Township 10 South, Range 27 East
Latitude 33.413681 North, Longitude 104.192148 West
NMOCD Incident # NAPP2106343455

Prepared For:

Hanson Operating Co Inc.
P.O. Box 1515
Roswell, NM 88202

Prepared By:

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

May 2021

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

Background:

The site is located in Unit Letter I (NE/SE), Section 28, Township 10 South, Range 27 East, approximately 19 miles east of Roswell, in Chaves 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 33.413681 North, Longitude 104.19214 West. The Initial NMOCD Form C-141 indicated that on February 15, 2021 approximately eighteen bbls of oil were released when a gun barrel upset pushed produced water into the oil tank causing on overflow into containment area. A vacuum truck was dispatched to the site and recovered approximately twelve bbls of oil from the containment area. 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. 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.

As no water wells could be located within a half mile of the release area, depth to water could not be determined. Therefore, the site was delineated and further remediated according to the strictest NMOCD Closure Criteria. Utilizing this information, the NMOCD Closure Criteria for the Site were determined as follows:

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

Delineation and Remediation Activities:

On March 15 and 17, 2021, 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. These sample locations are identified by SP designation. 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. These sample locations are identified by HZ designation. During the advancement of the test trenches, soil samples were collected and field screened for the presence of chloride concentrations utilizing a Hach Quantab ® chloride test kit.

Based on field observations and field test data, eighteen representative soil samples were selected for laboratory analysis. Delineation soil samples SP1 through SP5, and HZ1 through HZ4, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria with the exception of SP1 at surf, SP2 at surf, SP3 at surf, SP4 at surf, and SP5 at surf and 1', which exhibited TPH concentrations in excess of NMOCD Closure Criteria.

On April 20 through 22, 2021, after the tank battery had been dismantled and relocated on pad, remediation activities commenced on location. The area where the tank battery was removed was then excavated to a depth of approximately six feet bgs. Excavated soil was hauled to a state approved facility for disposal. The floor of the excavation was then field screened for the presence of chloride. Field tests indicated chloride concentrations were over the NMOCD Closure Criteria.

On April 29 and 30, 2021, Hungry Horse returned to the site for excavation activities. The excavation area was excavated approximately one foot vertically, bringing the depth to approximately seven feet bgs. After removal of impacted soil, the floor and sidewalls of the excavation were field screened for the presence of chloride. Field tests indicated chloride concentrations in the floor of the excavation were over the NMOCD Closure Criteria, while the excavation sidewalls were below the NMOCD Closure Criteria.

On May 7, 2021, Hungry Horse returned to the site for additional excavation activities. The majority of the excavation area was excavated approximately one-half foot vertically, with a small area in the northern corner excavated approximately one foot vertically, bringing the depth to approximately seven and a half to eight feet bgs. After removal of impacted soil, the floor of the excavation was field screened for the presence of chloride. Field tests indicated chloride concentrations were below the NMOCD Closure Criteria.

After excavation activities were complete, on May 7, 2021, twenty-one composite confirmation soil samples were collected from the excavation floor and sidewalls. Soil samples, BH1 through

BH15 and SW1 though SW6, 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 BH1 and SW5, which exhibited TPH concentrations in excess of NMOCD Closure Criteria.

On May 17, 2021, excavation activities resumed on location. Impacted soil in the areas characterized by sample locations BH1 and SW5 were excavated and resampled. Two composite confirmation soil samples were collected from the excavated areas. Soil samples, BH1b and SW5b, 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.

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 one hundred feet in length, thirty feet in width and seven and a half to eight feet in depth. During remediation activities approximately 837 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, caliche. The area was contoured to achieve erosion control and preserve surface water flow. As the affected area was located on an active tank battery pad, no reseeding will be required.

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 Hanson Operating provide copies of this *Remediation Summary and Closure Request* to the appropriate agencies and request closure be granted to the Hanlad A State Battery #1.

Limitations:

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

Distribution:

Hanson Operating Co Inc.
P.O. Box 1515
Roswell, NM 88202

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

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

Figures

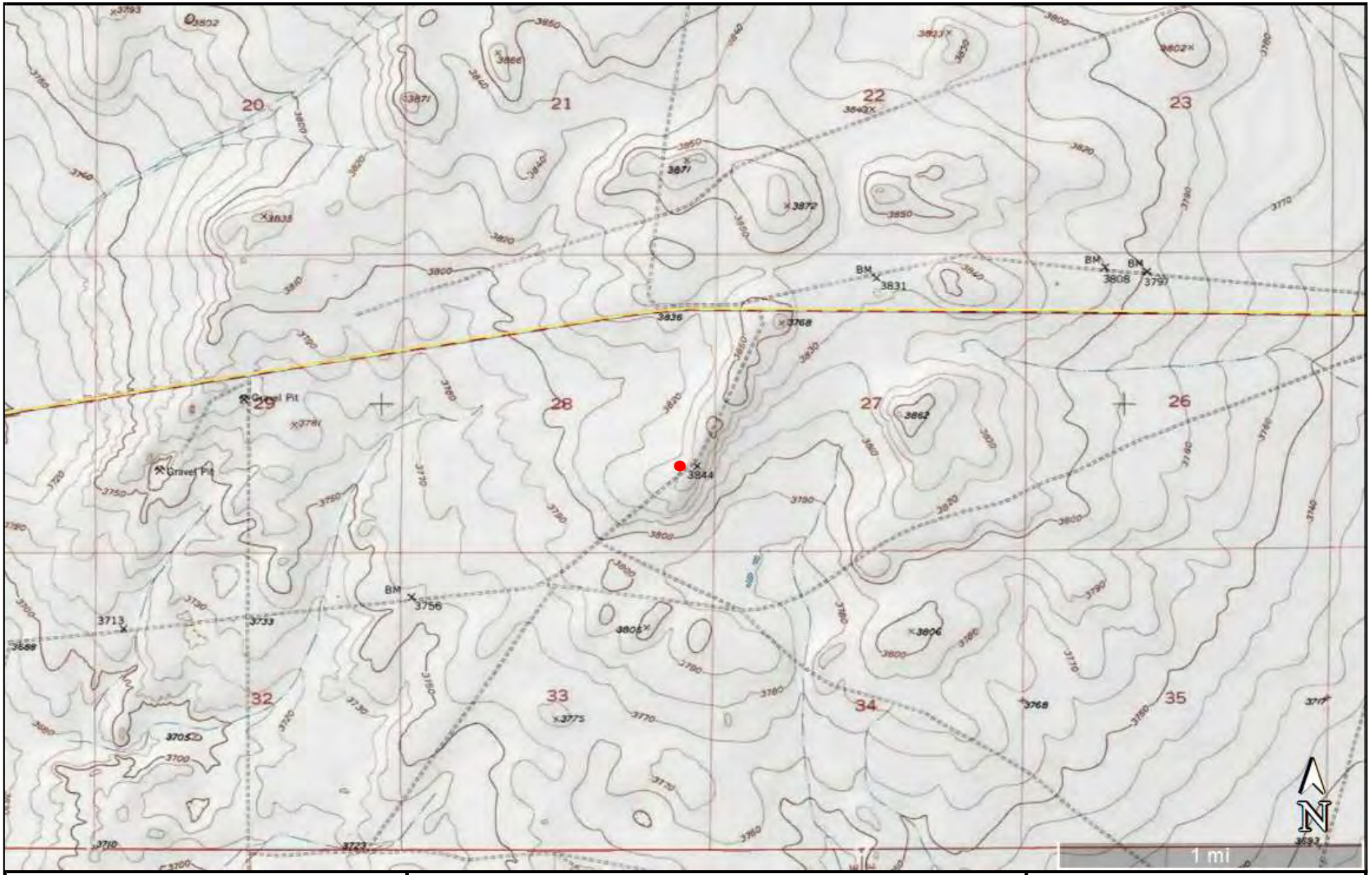


Figure 1
Topographic Map
Hanson Operating Co Inc
Hanlad A State Battery #1
GPS: 33.413681, -104.19214
Chaves County

Legend:

- Hanlad A State Battery #1 Location

Drafted: dd
Checked: lmn
Date: 4/19/21

HUNGRY HORSE ENVIRONMENTAL & CONSTRUCTION

Figure 2

OSE POD Locations Map
Hanson Operating Co Inc
Hanlad A State Battery #1
GPS: 33.413681, -104.19214
Chaves County

Legend:

- Hanlad A State Battery #1 Location

Drafted: dd
Checked: lmn
Date: 4/19/21

HUNGRY HORSE ENVIRONMENTAL & CONSTRUCTION

Figure 3
USGS Well Locations Map
Hanson Operating Co Inc
Hanlad A State Battery #1
GPS: 33.413681, -104.19214
Chaves County

Legend:

- Hanlad A State Battery #1 Location

Drafted: dd
Checked: lmn
Date: 4/19/21

HUNGRY HORSE ENVIRONMENTAL & CONSTRUCTION

Figure 4

Delineation Sample Map
Hanson Operating Co Inc
Hanlad A State Battery #1
GPS: 33.413681, -104.19214
Chaves County

Legend:

Release Area

SP1 Delineation Sample Location

Drafted: dd
Checked: lmn
Date: 4/19/21

HUNGRY HORSE ENVIRONMENTAL & CONSTRUCTION

Figure 5

Excavation Sample Map
Hanson Operating Co Inc
Hanlad A State Battery #1
GPS: 33.413681, -104.19214
Chaves County

Legend:

Excavated Area

BH1 Composite Sample Location

Drafted: dd
Checked: lmn
Date: 5/17/21

HUNGRY HORSE ENVIRONMENTAL & CONSTRUCTION

Table

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
Hanson Operating Co Inc
Hanlad A State Battery #1
NMOCD Ref. #: nAPP2106343455

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	3/15/21	Surf	Excavated	0.0102	0.115	<499	20,300	20,300	3,250	**23,600**	<5.05
	3/17/21	6	Excavated	<0.00200	<0.00200	<49.9	93.2	93.2	<49.9	93.2	416
SP2	3/15/21	Surf	Excavated	0.178	3.98	<499	32,800	32,800	5,950	**38,800**	170
	3/17/21	6	Excavated	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	270
SP3	3/15/21	Surf	Excavated	13.4	**653**	5,910	30,200	36,110	5,230	**41,300**	338
	3/17/21	5	Excavated	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	200
SP4	3/15/21	Surf	Excavated	0.0464	5.06	<250	8,710	8,710	1,650	**10,400**	358
	3/17/21	6	Excavated	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	533
SP5	3/15/21	Surf	Excavated	<0.00200	0.0246	<49.9	70.3	70.3	51.1	**121**	370
	3/17/21	6	Excavated	<0.00198	<0.00198	<50.1	159	159	<50.1	**159**	425
HZ1	3/15/21	Surf	In-Situ	<0.00200	0.597	<49.8	<49.8	<49.8	<49.8	<49.8	10.7
	3/17/21	1	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	42.3
HZ2	3/15/21	Surf	In-Situ	0.00227	0.152	<50.0	<50.0	<50.0	<50.0	<50.0	5.07
	3/17/21	1	In-Situ	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	39.7
HZ3	3/15/21	Surf	In-Situ	<0.00199	0.142	<49.8	<49.8	<49.8	<49.8	<49.8	<5.05
	3/17/21	1	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	39.2
HZ4	3/15/21	Surf	In-Situ	0.00445	0.0135	<50.0	<50.0	<50.0	54.5	54.5	12.7
	3/17/21	1	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	38.4
BH1	5/7/21	7.5	Excavated	<0.00200	<0.00399	841	1,240	2,081	135	**2,220**	51.3
BH2	5/7/21	7.5	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	49.0
BH3	5/7/21	7.5	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	47.2
BH4	5/7/21	7.5	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	50.8
BH5	5/7/21	7.5	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	51.4
BH6	5/7/21	7.5	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	39.6
BH7	5/7/21	7.5	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	59.0
BH8	5/7/21	7.5	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	55.6
BH9	5/7/21	7.5	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	46.5
BH10	5/7/21	7.5	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	13.6
BH11	5/7/21	7.5	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	46.5
BH12	5/7/21	7.5	In-Situ	<0.00201	<0.00402	<0.500	<0.500	<0.500	<0.500	<0.500	9.62
BH13	5/7/21	7.5	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	8.57
BH14	5/7/21	8	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	8.29
BH15	5/7/21	8	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	9.37
SW1	5/7/21	3.5	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	10.5
SW2	5/7/21	3.5	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	9.44
SW3	5/7/21	3.5	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	9.77
SW4	5/7/21	3.5	In-Situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	8.62
SW5	5/7/21	3.5	Excavated	<0.00200	<0.00401	<50.0	174	174	99.7	**274**	<5.00
SW6	5/7/21	3.5	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	12.4
BH1b	5/17/21	8	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	11.6
SW5b	5/17/21	3.5	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	9.42
NMOCD Closure Criteria				**10**	**50**	**-**	**-**	**N/A**	**-**	**100**	**600**

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

Attachment I
Site Photographs

Photographs

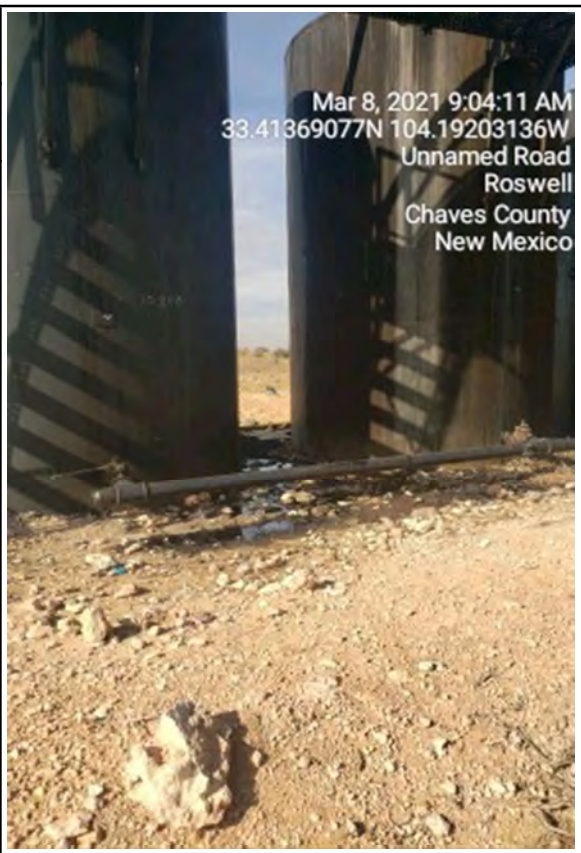
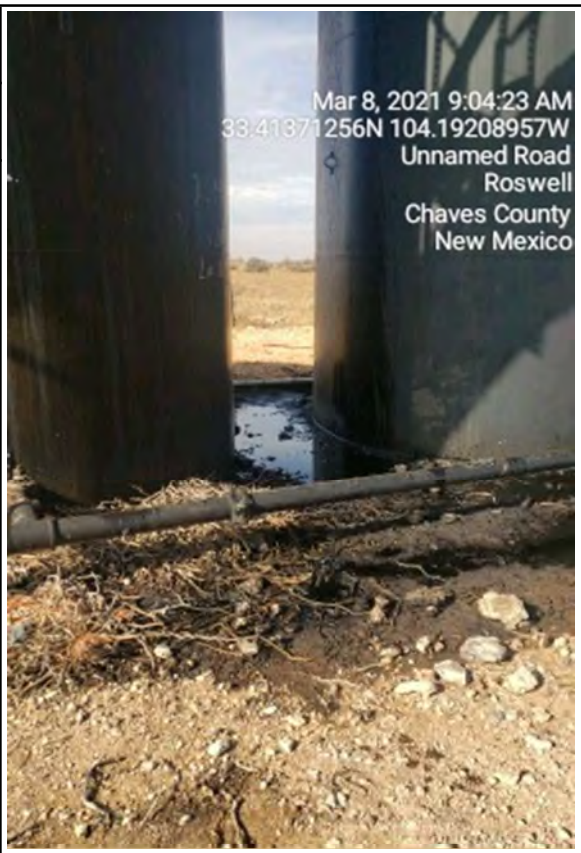
Photo: 1 **Direction:** Southwest **Description:** Release area	

Photo: 2 **Direction:** Southwest **Description:** Release area	

Photographs

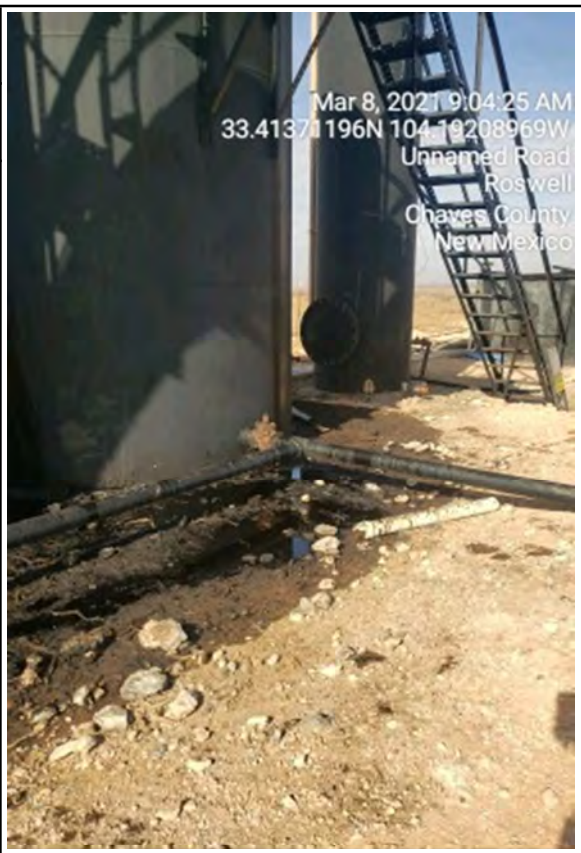
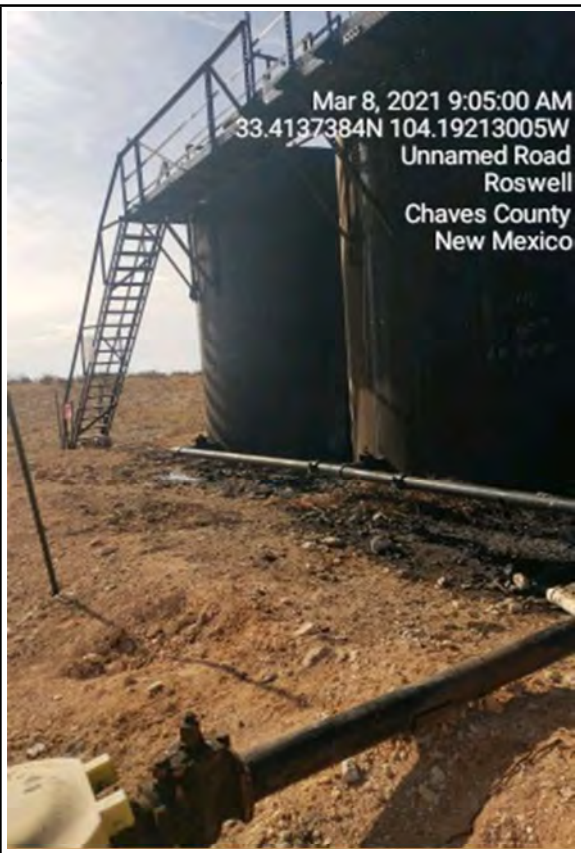
Photo: 3 **Direction:** West **Description:** Release area	

Photo: 4 **Direction:** South **Description:** Release area	

Photographs

Photo: 5 **Direction:** East **Description:** Excavation activities	
Photo: 6 **Direction:** North **Description:** Excavation activities	

Photographs

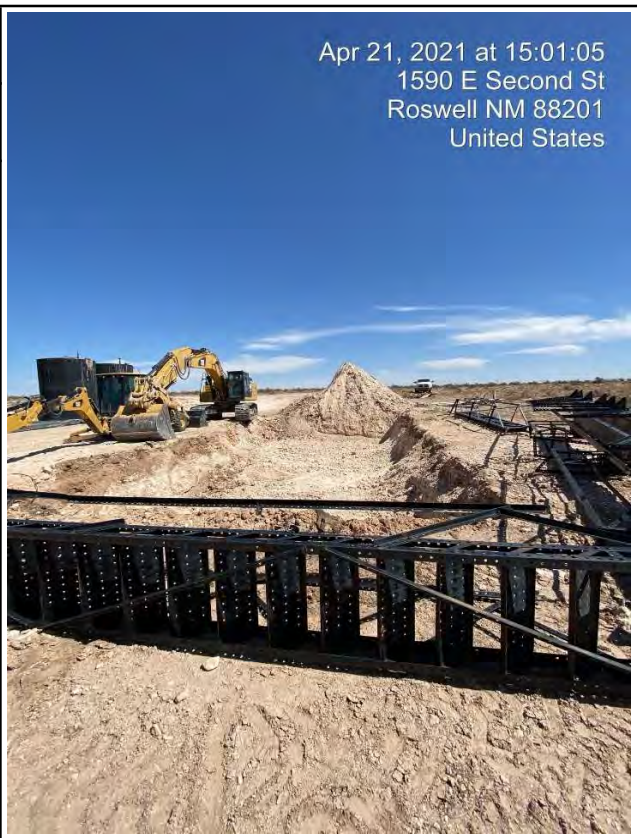
Photo: 7 **Direction:** Southeast **Description:** Excavation activities	

Photo: 8 **Direction:** Northwest **Description:** Excavation activities	

Photographs

Photo: 9 **Direction:** North **Description:** Excavation activities	

Photo: 10 **Direction:** Southeast **Description:** Excavation activities	

Photographs

Photo: 11 **Direction:** South **Description:** Backfilling excavation	

Photo: 12 **Direction:** Northwest **Description:** Backfilling excavation	

Photographs

Photo: 13 **Direction:** South **Description:** Backfill complete	

Photo: 14 **Direction:** North **Description:** Backfill complete	

Attachment II
Depth to Groundwater

New Mexico Office of the State Engineer

Wells with Well Log Information

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 575113 **Northing (Y):** 3697440 **Radius:** 1760

Attachment III
Field Data

Hungry Horse, LLC

Sample Log

Date: 3/15/21

Project: Hanson Haniad A Stak Battery #1

Latitude: 0 Longitude: 0 Sampler: Bradley Wells

Sample ID	PID/Odor	Chloride Conc.	GPS
Sp1 - surf	TPH	>100	Lab
Sp1 - 1'	TPH	6.2 = 368 x 4 = 1472	3/19/21
Sp1 - 2'	TPH	6.0 = 345 x 4 = 1380	
Sp1 - 3'	TPH	3.8 = 149 x 4 = 596	
Sp1 - 4'	TPH	4.8 = 227 x 4 = 908	
Sp1 - 5'	slight	3.8 = 149 x 4 = 596	3/17/21
Sp1 - 6'	—	3.0 = 97 x 4 = 388	Lab 3/17
Sp2 - surf	TPH	2.8 = 85 x 4 = 340	Lab
Sp2 - 1'	TPH	6.0 = 345 x 4 = 1380	3/17
Sp2 - 2'	TPH	5.8 = 323 x 4 = 1292	
Sp2 - 3'	slight	4.8 = 227 x 4 = 908	
Sp2 - 4'	slight	>100	
Sp2 - 5'	—	4.4 = 194 x 4 = 776	
Sp2 - 6'	—	3.4 = 122 x 4 = 488	Lab
Sp3 - surf	TPH	2.4 = 63 x 4 = 252	Lab
Sp3 - 1'	TPH	3.8 = 109 x 4 = 436	
Sp3 - 2'	slight	2.8 = 85 x 4 = 340	
Sp3 - 3'	slight	2.8 = 85 x 4 = 340	
Sp3 - 4'	—	2.6 = 73 x 4 = 292	
Sp3 - 5'	—	2.6 = 73 x 4 = 292	Lab
Sp4 - surf	TPH	5.0 = 245 x 4 = 980	Lab
Sp4 - 1'	TPH	5.0 = 245 x 4 = 980	3/17
Sp4 - 2'	TPH	5.0H = 1082 x 4 = 4328	
Sp4 - 3'	TPH	5.0H = 1082 x 4 = 4328	
Sp4 - 4'	TPH	4.8H = 997 x 4 = 3988	
Sp4 - 5'	—	3.2H = 1175 x 4 = 4700	
Sp4 - 6'	—	[redacted] 3.4 122 x 4 [redacted]	
Sp5 - surf	—	3.0 = 97 x 4 = 388	Lab
Sp5 - 1'	TPH	5.8 = 323 x 4 = 1292	3/17
Sp5 - 2'	TPH	4.0H = 706 x 4 = 2824	
Sp5 - 3	slight	6.8 = 447 x 4 = 1788	
Sp5 - 4'	—	3.8H = 645 x 4 = 2580	
Sp5 - 5'	—	4.6H = 917 x 4 = 3668	
Sp5 - 6'	—	[redacted] 3.0 = 97 x 4 = 388	
[redacted]	[redacted]	[redacted]	[redacted]

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

Hungry Horse, LLC

Sample Log

Date: 3/15/21

Project: Hanson Hazlad A Battery 1

Latitude: 0 Longitude: 0 Sampler: Bradley Wells

Sample ID	PID/Odor	Chloride Conc.	GPS
Hz1-surf	—	>100	Lab
Hz1-1'		>100	Lab
Hz2-surf	—	>100	Lab
Hz2-1'		>100	Lab
Hz3-surf	—	1.8=37x4=148	Lab
Hz3-1'		>100	Lab
Hz4-surf	—	>100	Lab
Hz4-1'		>100	Lab
			3/17/21
[redacted]	—		

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

Hungry Horse, LLC

Sample Log

Date: 4/23/21

Project: Hanlad A State Battery #1

Latitude: 33.413681 Longitude: -104.19214 Sampler: Bradley Wells

Sample ID	PID/Odor	Chloride Conc.	GPS
field 1	—	7.8 H = 3583 x 4 = 14,332	
field 2	—	4.4 = 194 x 4 = 776	
field 3	—	6.4 = 393 x 4 = 1572	
field 4	—	3.8 = 149 x 4 = 596	
field 5	—	3.0 = 97 x 4 = 388	
field 6	—	5 H = 1082 x 4 = 4382	
field 7	—	5.8 = 323 x 4 = 1292	
field 8	—	6.8 H = 2266 x 4 = 9064	
field 9	—	5.8 H = 1498 x 4 = 5992	

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

Hungry Horse, LLC

Sample Log

Date: 5/3/21

Project: Hanlad A State Battery #1

Latitude: 33.413681 Longitude: -104.19214 Sampler: Bradley Wells

Sample ID	PID/Odor	Chloride Conc.	GPS
field 1b	—	7.6 = 582 x 4 = 2328	
field 2b	—	3.8 = 149 x 4 = 596	
field 3b	—	4.0 = 164 x 4 = 656	
field 4b	—	3.6 = 135 x 4 = 540	
field 5b	—	3.0 = 97 x 4 = 388	
field 6b	—	4.8 = 227 x 4 = 908	
field 7b	—	3.8 = 149 x 4 = 596	
field 8b	—	3.8 = 149 x 4 = 596	
field 9b	—	6.2 = 368 x 4 = 1472	
[redacted]	[redacted]		
field SW 1	—	2.4 = 63 x 4 = 252	
field SW 2	—	2.6 = 73 x 4 = 292	
field SW 3	—	1.8 = 37 x 4 = 148	
field SW 4	—	2.0 = 45 x 4 = 180	

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

Hungry Horse, LLC

Sample Log

Date: 5/7/21

Project: Hanlad A State Battery #1

Latitude: 33.413681 Longitude: -104.19214 Sampler: Bradley Wells

Sample ID	PID/Odor	Chloride Conc.	GPS
BH1	—	1.8 = 37x4 = 148	
BH2	—	1.8 = 37x4 = 148	
BH3	—	1.6 = 30x4 = 120	
BH4	—	2.0 = 45x4 = 180	
BH5	—	2.4 = 63x4 = 252	
BH6	—	1.8 = 37x4 = 148	
BH7	—	2.6 = 73x4 = 292	
BH8	—	1.6 = 30x4 = 120	
BH9	—	1.8 = 37x4 = 148	
BH10	—	2.2 = 53x4 = 212	
BH11	—	2.0 = 45x4 = 180	
BH12	—	2.0 = 45x4 = 180	
BH13	—	1.6 = 30x4 = 120	
BH14	—	1.8 = 37x4 = 148	
BH15	—	1.6 = 30x4 = 120	
SW1	—	2.0 = 45x4 = 180	
SW2	—	2.4 = 63x4 = 252	
SW3	—	2.6 = 73x4 = 292	
SW4	—	2.4 = 63x4 = 252	
SW5	—	1.8 = 37x4 = 148	
SW6	—	2.0 = 45x4 = 180	

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

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-478-1
Client Project/Site: Hanlad State Battery #1

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

Attn: Lindsey Nevels

Holly Taylor

Authorized for release by:
4/1/2021 6:20:29 PM

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

Table of Contents

Definitions/Glossary

Client: Hungry Horse LLC
Job ID: 880-478-1
Project/Site: Hanlad State Battery #1

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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

Job ID: 880-478-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-478-1

Receipt
The samples were received on 3/19/2021 12:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: SP5 (880-478-5), HZ3 (880-478-8) and HZ4 (880-478-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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: Hanlad State Battery #1

Job ID: 880-478-1

Client Sample ID: SP1 — Lab Sample ID: 880-478-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	0.0102		0.00200		mg/Kg	1		8021B	Total/NA
Ethylbenzene	0.0276		0.00200		mg/Kg	1		8021B	Total/NA
Toluene	0.0674		0.00200		mg/Kg	1		8021B	Total/NA
Total BTEX	0.115		0.00200		mg/Kg	1		8021B	Total/NA
Xylenes, Total	0.00987		0.00401		mg/Kg	1		8021B	Total/NA
m-Xylene & p-Xylene	0.00741		0.00401		mg/Kg	1		8021B	Total/NA
o-Xylene	0.00246		0.00200		mg/Kg	1		8021B	Total/NA
Total TPH	23600		499		mg/Kg	10		8015B NM	Total/NA
Diesel Range Organics (Over C10-C28)	20300		499		mg/Kg	10		8015B NM	Total/NA
OII Range Organics (Over C28-C36)	3250		499		mg/Kg	10		8015B NM	Total/NA

Client Sample ID: SP2 — Lab Sample ID: 880-478-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	0.178	H	0.00202		mg/Kg	1		8021B	Total/NA
Ethylbenzene	0.291	H	0.00202		mg/Kg	1		8021B	Total/NA
Toluene	1.25	H	0.0397		mg/Kg	20		8021B	Total/NA
Total BTEX	3.98	H	0.0397		mg/Kg	20		8021B	Total/NA
Xylenes, Total	0.218	H	0.00403		mg/Kg	1		8021B	Total/NA
m-Xylene & p-Xylene	0.140	H	0.00403		mg/Kg	1		8021B	Total/NA
o-Xylene	0.0775	H	0.00202		mg/Kg	1		8021B	Total/NA
Total TPH	38800		499		mg/Kg	10		8015B NM	Total/NA
Diesel Range Organics (Over C10-C28)	32800		499		mg/Kg	10		8015B NM	Total/NA
OII Range Organics (Over C28-C36)	5950		499		mg/Kg	10		8015B NM	Total/NA
Chloride	170		5.00		mg/Kg	1		300.0	Soluble

Client Sample ID: SP3 — Lab Sample ID: 880-478-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	13.4	H	1.00		mg/Kg	500		8021B	Total/NA
Ethylbenzene	278	H	2.00		mg/Kg	1000		8021B	Total/NA
Toluene	178	H	2.00		mg/Kg	1000		8021B	Total/NA
Total BTEX	653	H	2.00		mg/Kg	1000		8021B	Total/NA
Xylenes, Total	209	H	2.00		mg/Kg	500		8021B	Total/NA
m-Xylene & p-Xylene	144	H	2.00		mg/Kg	500		8021B	Total/NA
o-Xylene	64.8	H	1.00		mg/Kg	500		8021B	Total/NA
Gasoline Range Organics (GRO)-C6-C10	5910		499		mg/Kg	10		8015B NM	Total/NA
Total TPH	41300		499		mg/Kg	10		8015B NM	Total/NA
Diesel Range Organics (Over C10-C28)	30200		499		mg/Kg	10		8015B NM	Total/NA
OII Range Organics (Over C28-C36)	5230		499		mg/Kg	10		8015B NM	Total/NA
Chloride	338		5.00		mg/Kg	1		300.0	Soluble

Client Sample ID: SP4 — Lab Sample ID: 880-478-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	0.0464	H	0.00199		mg/Kg	1		8021B	Total/NA
Ethylbenzene	0.317	H	0.00199		mg/Kg	1		8021B	Total/NA
Total BTEX	5.06	H	0.0998		mg/Kg	50		8021B	Total/NA
Xylenes, Total	0.157	H	0.00398		mg/Kg	1		8021B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Xenco, Midland

Detection Summary

Client: Hungry Horse LLC
Project/Site: Hanlad State Battery #1

Job ID: 880-478-1

Client Sample ID: SP4 (Continued) — Lab Sample ID: 880-478-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	0.119	H	0.00398		mg/Kg	1		8021B	Total/NA
o-Xylene	0.0379	H	0.00199		mg/Kg	1		8021B	Total/NA
Total TPH	10400		250		mg/Kg	5		8015B NM	Total/NA
Diesel Range Organics (Over C10-C28)	8710		250		mg/Kg	5		8015B NM	Total/NA
OII Range Organics (Over C28-C36)	1650		250		mg/Kg	5		8015B NM	Total/NA
Chloride	358		5.00		mg/Kg	1		300.0	Soluble

Client Sample ID: SP5 — Lab Sample ID: 880-478-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.0143	H	0.00200		mg/Kg	1		8021B	Total/NA
Toluene	0.00485	H	0.00200		mg/Kg	1		8021B	Total/NA
Total BTEX	0.0246	H	0.00200		mg/Kg	1		8021B	Total/NA
Xylenes, Total	0.00540	H	0.00399		mg/Kg	1		8021B	Total/NA
o-Xylene	0.00540	H	0.00200		mg/Kg	1		8021B	Total/NA
Total TPH	121		49.9		mg/Kg	1		8015B NM	Total/NA
Diesel Range Organics (Over C10-C28)	70.3		49.9		mg/Kg	1		8015B NM	Total/NA
OII Range Organics (Over C28-C36)	51.1		49.9		mg/Kg	1		8015B NM	Total/NA
Chloride	370		4.96		mg/Kg	1		300.0	Soluble

Client Sample ID: HZ1 — Lab Sample ID: 880-478-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.300	H	0.00200		mg/Kg	1		8021B	Total/NA
Toluene	0.101	H	0.00200		mg/Kg	1		8021B	Total/NA
Total BTEX	0.597	H	0.00200		mg/Kg	1		8021B	Total/NA
Xylenes, Total	0.196	H	0.00400		mg/Kg	1		8021B	Total/NA
m-Xylene & p-Xylene	0.139	H	0.00400		mg/Kg	1		8021B	Total/NA
o-Xylene	0.0565	H	0.00200		mg/Kg	1		8021B	Total/NA
Chloride	10.7		4.95		mg/Kg	1		300.0	Soluble

Client Sample ID: HZ2 — Lab Sample ID: 880-478-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	0.00227	H	0.00198		mg/Kg	1		8021B	Total/NA
Ethylbenzene	0.0691	H	0.00198		mg/Kg	1		8021B	Total/NA
Toluene	0.0404	H	0.00198		mg/Kg	1		8021B	Total/NA
Total BTEX	0.152	H	0.00198		mg/Kg	1		8021B	Total/NA
Xylenes, Total	0.0403	H	0.00396		mg/Kg	1		8021B	Total/NA
m-Xylene & p-Xylene	0.0300	H	0.00396		mg/Kg	1		8021B	Total/NA
o-Xylene	0.0103	H	0.00198		mg/Kg	1		8021B	Total/NA
Chloride	5.07		4.99		mg/Kg	1		300.0	Soluble

Client Sample ID: HZ3 — Lab Sample ID: 880-478-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.0653	H	0.00199		mg/Kg	1		8021B	Total/NA
Toluene	0.0264	H	0.00199		mg/Kg	1		8021B	Total/NA
Total BTEX	0.142	H	0.00199		mg/Kg	1		8021B	Total/NA
Xylenes, Total	0.0503	H	0.00398		mg/Kg	1		8021B	Total/NA
m-Xylene & p-Xylene	0.0357	H	0.00398		mg/Kg	1		8021B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Hungry Horse LLC
Project/Site: Hanlad State Battery #1

Job ID: 880-478-1

Client Sample ID: HZ3 (Continued)

Lab Sample ID: 880-478-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
o-Xylene	0.0146	H	0.00199		mg/Kg	1		8021B	Total/NA

Client Sample ID: HZ4

Lab Sample ID: 880-478-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	0.00445	H	0.00198		mg/Kg	1		8021B	Total/NA
Ethylbenzene	0.00392	H	0.00198		mg/Kg	1		8021B	Total/NA
Toluene	0.00517	H	0.00198		mg/Kg	1		8021B	Total/NA
Total BTEX	0.0135	H	0.00198		mg/Kg	1		8021B	Total/NA
Total TPH	54.5		50.0		mg/Kg	1		8015B NM	Total/NA
OII Range Organics (Over C28-C36)	54.5		50.0		mg/Kg	1		8015B NM	Total/NA
Chloride	12.7		5.02		mg/Kg	1		300.0	Soluble

This Detection Summary does not include radiochemical test results.

Client Sample ID: SP1

Lab Sample ID: 880-478-1

Date Collected: 03/15/21 00:00

Matrix: Solid

Date Received: 03/19/21 00:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0102		0.00200		mg/Kg		03/29/21 17:04	03/29/21 23:44	1
Ethylbenzene	0.0276		0.00200		mg/Kg		03/29/21 17:04	03/29/21 23:44	1
Toluene	0.0674		0.00200		mg/Kg		03/29/21 17:04	03/29/21 23:44	1
Total BTEX	0.115		0.00200		mg/Kg		03/29/21 17:04	03/29/21 23:44	1
Xylenes, Total	0.00987		0.00401		mg/Kg		03/29/21 17:04	03/29/21 23:44	1
m-Xylene & p-Xylene	0.00741		0.00401		mg/Kg		03/29/21 17:04	03/29/21 23:44	1
o-Xylene	0.00246		0.00200		mg/Kg		03/29/21 17:04	03/29/21 23:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*03/29/21 17:04*	*03/29/21 23:44*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/29/21 17:04*	*03/29/21 23:44*	*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	<499	U	499		mg/Kg		03/25/21 14:15	03/25/21 22:34	10
Total TPH	23600		499		mg/Kg		03/25/21 14:15	03/25/21 22:34	10
Diesel Range Organics (Over C10-C28)	20300		499		mg/Kg		03/25/21 14:15	03/25/21 22:34	10
Oil Range Organics (Over C28-C36)	3250		499		mg/Kg		03/25/21 14:15	03/25/21 22:34	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*03/25/21 14:15*	*03/25/21 22:34*	*10*
o-Terphenyl	*93*		*70 - 130*	*03/25/21 14:15*	*03/25/21 22:34*	*10*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05		mg/Kg			03/26/21 22:22	1

Client Sample ID: SP2

Lab Sample ID: 880-478-2

Date Collected: 03/15/21 00:00

Matrix: Solid

Date Received: 03/19/21 00:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.178	H	0.00202		mg/Kg		03/29/21 17:04	03/30/21 00:05	1
Ethylbenzene	0.291	H	0.00202		mg/Kg		03/29/21 17:04	03/30/21 00:05	1
Toluene	1.25	H	0.0397		mg/Kg		03/30/21 09:18	03/30/21 17:09	20
Total BTEX	3.98	H	0.0397		mg/Kg		03/30/21 09:18	03/30/21 17:09	20
Xylenes, Total	0.218	H	0.00403		mg/Kg		03/29/21 17:04	03/30/21 00:05	1
m-Xylene & p-Xylene	0.140	H	0.00403		mg/Kg		03/29/21 17:04	03/30/21 00:05	1
o-Xylene	0.0775	H	0.00202		mg/Kg		03/29/21 17:04	03/30/21 00:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*03/29/21 17:04*	*03/30/21 00:05*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*03/29/21 17:04*	*03/30/21 00:05*	*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	<499	U	499		mg/Kg		03/25/21 14:15	03/26/21 00:06	10

Client Sample ID: SP2

Lab Sample ID: 880-478-2

Date Collected: 03/15/21 00:00
Matrix: Solid
Date Received: 03/19/21 00:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	38800		499		mg/Kg		03/25/21 14:15	03/26/21 00:06	10
Diesel Range Organics (Over C10-C28)	32800		499		mg/Kg		03/25/21 14:15	03/26/21 00:06	10
Oil Range Organics (Over C28-C36)	5950		499		mg/Kg		03/25/21 14:15	03/26/21 00:06	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*03/25/21 14:15*	*03/26/21 00:06*	*10*
o-Terphenyl	*124*		*70 - 130*	*03/25/21 14:15*	*03/26/21 00:06*	*10*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	170		5.00		mg/Kg			03/26/21 22:33	1

Client Sample ID: SP3

Lab Sample ID: 880-478-3

Date Collected: 03/15/21 00:00
Matrix: Solid
Date Received: 03/19/21 00:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	13.4	H	1.00		mg/Kg		03/29/21 17:04	03/30/21 00:26	500
Ethylbenzene	278	H	2.00		mg/Kg		04/01/21 09:34	04/01/21 15:15	1000
Toluene	178	H	2.00		mg/Kg		04/01/21 09:34	04/01/21 15:15	1000
Total BTEX	653	H	2.00		mg/Kg		04/01/21 09:34	04/01/21 15:15	1000
Xylenes, Total	209	H	2.00		mg/Kg		03/29/21 17:04	03/30/21 00:26	500
m-Xylene & p-Xylene	144	H	2.00		mg/Kg		03/29/21 17:04	03/30/21 00:26	500
o-Xylene	64.8	H	1.00		mg/Kg		03/29/21 17:04	03/30/21 00:26	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*146*	*S1+*	*70 - 130*	*03/29/21 17:04*	*03/30/21 00:26*	*500*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/29/21 17:04*	*03/30/21 00:26*	*500*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	5910		499		mg/Kg		03/25/21 14:15	03/26/21 00:36	10
Total TPH	41300		499		mg/Kg		03/25/21 14:15	03/26/21 00:36	10
Diesel Range Organics (Over C10-C28)	30200		499		mg/Kg		03/25/21 14:15	03/26/21 00:36	10
Oil Range Organics (Over C28-C36)	5230		499		mg/Kg		03/25/21 14:15	03/26/21 00:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*03/25/21 14:15*	*03/26/21 00:36*	*10*
o-Terphenyl	*102*		*70 - 130*	*03/25/21 14:15*	*03/26/21 00:36*	*10*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	338		5.00		mg/Kg			03/26/21 22:38	1

Client Sample ID: SP4

Lab Sample ID: 880-478-4

Date Collected: 03/15/21 00:00

Matrix: Solid

Date Received: 03/19/21 00:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0464**	**H**	0.00199		mg/Kg		03/29/21 17:04	03/30/21 01:49	1
Ethylbenzene	**0.317**	**H**	0.00199		mg/Kg		03/29/21 17:04	03/30/21 01:49	1
Toluene	<0.0998	U H	0.0998		mg/Kg		03/30/21 09:18	03/30/21 16:49	50
Total BTEX	**5.06**	**H**	0.0998		mg/Kg		03/30/21 09:18	03/30/21 16:49	50
Xylenes, Total	**0.157**	**H**	0.00398		mg/Kg		03/29/21 17:04	03/30/21 01:49	1
m-Xylene & p-Xylene	**0.119**	**H**	0.00398		mg/Kg		03/29/21 17:04	03/30/21 01:49	1
o-Xylene	**0.0379**	**H**	0.00199		mg/Kg		03/29/21 17:04	03/30/21 01:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*03/29/21 17:04*	*03/30/21 01:49*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*03/29/21 17:04*	*03/30/21 01:49*	*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	<250	U	250		mg/Kg		03/25/21 14:15	03/26/21 01:08	5
Total TPH	**10400**		250		mg/Kg		03/25/21 14:15	03/26/21 01:08	5
Diesel Range Organics (Over C10-C28)	**8710**		250		mg/Kg		03/25/21 14:15	03/26/21 01:08	5
Oil Range Organics (Over C28-C36)	**1650**		250		mg/Kg		03/25/21 14:15	03/26/21 01:08	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*03/25/21 14:15*	*03/26/21 01:08*	*5*
o-Terphenyl	*87*		*70 - 130*	*03/25/21 14:15*	*03/26/21 01:08*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**358**		5.00		mg/Kg			03/26/21 22:44	1

Client Sample ID: SP5

Lab Sample ID: 880-478-5

Date Collected: 03/15/21 00:00

Matrix: Solid

Date Received: 03/19/21 00:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U H	0.00200		mg/Kg		03/29/21 17:04	03/30/21 02:09	1
Ethylbenzene	**0.0143**	**H**	0.00200		mg/Kg		03/29/21 17:04	03/30/21 02:09	1
Toluene	**0.00485**	**H**	0.00200		mg/Kg		03/29/21 17:04	03/30/21 02:09	1
Total BTEX	**0.0246**	**H**	0.00200		mg/Kg		03/29/21 17:04	03/30/21 02:09	1
Xylenes, Total	**0.00540**	**H**	0.00399		mg/Kg		03/29/21 17:04	03/30/21 02:09	1
m-Xylene & p-Xylene	<0.00399	U H	0.00399		mg/Kg		03/29/21 17:04	03/30/21 02:09	1
o-Xylene	**0.00540**	**H**	0.00200		mg/Kg		03/29/21 17:04	03/30/21 02:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/29/21 17:04*	*03/30/21 02:09*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*03/29/21 17:04*	*03/30/21 02:09*	*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	<49.9	U	49.9		mg/Kg		03/25/21 14:15	03/26/21 01:30	1

Client Sample ID: SP5

Lab Sample ID: 880-478-5

Date Collected: 03/15/21 00:00

Matrix: Solid

Date Received: 03/19/21 00:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**121**		49.9		mg/Kg		03/25/21 14:15	03/26/21 01:30	1
Diesel Range Organics (Over C10-C28)	**70.3**		49.9		mg/Kg		03/25/21 14:15	03/26/21 01:30	1
OII Range Organics (Over C28-C36)	**51.1**		49.9		mg/Kg		03/25/21 14:15	03/26/21 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*03/25/21 14:15*	*03/26/21 01:30*	*1*
o-Terphenyl	*93*		*70 - 130*	*03/25/21 14:15*	*03/26/21 01:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**370**		4.96		mg/Kg			03/26/21 22:49	1

Client Sample ID: HZ1

Lab Sample ID: 880-478-6

Date Collected: 03/15/21 00:00

Matrix: Solid

Date Received: 03/19/21 00:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U H	0.00200		mg/Kg		03/29/21 17:04	03/30/21 02:30	1
Ethylbenzene	**0.300**	**H**	0.00200		mg/Kg		03/29/21 17:04	03/30/21 02:30	1
Toluene	**0.101**	**H**	0.00200		mg/Kg		03/29/21 17:04	03/30/21 02:30	1
Total BTEX	**0.597**	**H**	0.00200		mg/Kg		03/29/21 17:04	03/30/21 02:30	1
Xylenes, Total	**0.196**	**H**	0.00400		mg/Kg		03/29/21 17:04	03/30/21 02:30	1
m-Xylene & p-Xylene	**0.139**	**H**	0.00400		mg/Kg		03/29/21 17:04	03/30/21 02:30	1
o-Xylene	**0.0565**	**H**	0.00200		mg/Kg		03/29/21 17:04	03/30/21 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*03/29/21 17:04*	*03/30/21 02:30*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*03/29/21 17:04*	*03/30/21 02:30*	*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	49.8		mg/Kg		03/25/21 14:15	03/26/21 01:51	1
Total TPH	<49.8	U	49.8		mg/Kg		03/25/21 14:15	03/26/21 01:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/25/21 14:15	03/26/21 01:51	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/25/21 14:15	03/26/21 01:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*03/25/21 14:15*	*03/26/21 01:51*	*1*
o-Terphenyl	*83*		*70 - 130*	*03/25/21 14:15*	*03/26/21 01:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.7**		4.95		mg/Kg			03/26/21 22:55	1

Client Sample ID: HZ2

Lab Sample ID: 880-478-7

Date Collected: 03/15/21 00:00

Matrix: Solid

Date Received: 03/19/21 00:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00227	H	0.00198		mg/Kg		03/29/21 17:04	03/30/21 02:51	1
Ethylbenzene	0.0691	H	0.00198		mg/Kg		03/29/21 17:04	03/30/21 02:51	1
Toluene	0.0404	H	0.00198		mg/Kg		03/29/21 17:04	03/30/21 02:51	1
Total BTEX	0.152	H	0.00198		mg/Kg		03/29/21 17:04	03/30/21 02:51	1
Xylenes, Total	0.0403	H	0.00396		mg/Kg		03/29/21 17:04	03/30/21 02:51	1
m-Xylene & p-Xylene	0.0300	H	0.00396		mg/Kg		03/29/21 17:04	03/30/21 02:51	1
o-Xylene	0.0103	H	0.00198		mg/Kg		03/29/21 17:04	03/30/21 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/29/21 17:04*	*03/30/21 02:51*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*03/29/21 17:04*	*03/30/21 02:51*	*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	<50.0	U	50.0		mg/Kg		03/25/21 14:15	03/26/21 02:21	1
Total TPH	<50.0	U	50.0		mg/Kg		03/25/21 14:15	03/26/21 02:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/25/21 14:15	03/26/21 02:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/25/21 14:15	03/26/21 02:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*03/25/21 14:15*	*03/26/21 02:21*	*1*
o-Terphenyl	*84*		*70 - 130*	*03/25/21 14:15*	*03/26/21 02:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.07		4.99		mg/Kg			03/29/21 13:24	1

Client Sample ID: HZ3

Lab Sample ID: 880-478-8

Date Collected: 03/15/21 00:00

Matrix: Solid

Date Received: 03/19/21 00:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U H	0.00199		mg/Kg		03/29/21 17:04	03/30/21 03:11	1
Ethylbenzene	0.0653	H	0.00199		mg/Kg		03/29/21 17:04	03/30/21 03:11	1
Toluene	0.0264	H	0.00199		mg/Kg		03/29/21 17:04	03/30/21 03:11	1
Total BTEX	0.142	H	0.00199		mg/Kg		03/29/21 17:04	03/30/21 03:11	1
Xylenes, Total	0.0503	H	0.00398		mg/Kg		03/29/21 17:04	03/30/21 03:11	1
m-Xylene & p-Xylene	0.0357	H	0.00398		mg/Kg		03/29/21 17:04	03/30/21 03:11	1
o-Xylene	0.0146	H	0.00199		mg/Kg		03/29/21 17:04	03/30/21 03:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*03/29/21 17:04*	*03/30/21 03:11*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*03/29/21 17:04*	*03/30/21 03:11*	*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	49.8		mg/Kg		03/25/21 14:15	03/26/21 02:46	1
Total TPH	<49.8	U	49.8		mg/Kg		03/25/21 14:15	03/26/21 02:46	1

Client Sample ID: HZ3

Lab Sample ID: 880-478-8

Date Collected: 03/15/21 00:00

Matrix: Solid

Date Received: 03/19/21 00:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/25/21 14:15	03/26/21 02:46	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/25/21 14:15	03/26/21 02:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*03/25/21 14:15*	*03/26/21 02:46*	*1*
o-Terphenyl	*87*		*70 - 130*	*03/25/21 14:15*	*03/26/21 02:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05		mg/Kg			03/29/21 13:39	1

Client Sample ID: HZ4

Lab Sample ID: 880-478-9

Date Collected: 03/15/21 00:00

Matrix: Solid

Date Received: 03/19/21 00:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00445**	**H**	0.00198		mg/Kg		03/29/21 17:04	03/30/21 03:32	1
Ethylbenzene	**0.00392**	**H**	0.00198		mg/Kg		03/29/21 17:04	03/30/21 03:32	1
Toluene	**0.00517**	**H**	0.00198		mg/Kg		03/29/21 17:04	03/30/21 03:32	1
Total BTEX	**0.0135**	**H**	0.00198		mg/Kg		03/29/21 17:04	03/30/21 03:32	1
Xylenes, Total	<0.00397	U H	0.00397		mg/Kg		03/29/21 17:04	03/30/21 03:32	1
m-Xylene & p-Xylene	<0.00397	U H	0.00397		mg/Kg		03/29/21 17:04	03/30/21 03:32	1
o-Xylene	<0.00198	U H	0.00198		mg/Kg		03/29/21 17:04	03/30/21 03:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/29/21 17:04*	*03/30/21 03:32*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*03/29/21 17:04*	*03/30/21 03:32*	*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	<50.0	U	50.0		mg/Kg		03/25/21 14:15	03/26/21 03:07	1
Total TPH	**54.5**		50.0		mg/Kg		03/25/21 14:15	03/26/21 03:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/25/21 14:15	03/26/21 03:07	1
Oll Range Organics (Over C28-C36)	**54.5**		50.0		mg/Kg		03/25/21 14:15	03/26/21 03:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*03/25/21 14:15*	*03/26/21 03:07*	*1*
o-Terphenyl	*70*		*70 - 130*	*03/25/21 14:15*	*03/26/21 03:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.7**		5.02		mg/Kg			03/29/21 13:44	1

Surrogate Summary

Client: Hungry Horse LLC
Project/Site: Hanlad State Battery #1

Job ID: 880-478-1

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)										
880-477-A-1-C MS	Matrix Spike	83	105										
880-477-A-1-D MSD	Matrix Spike Duplicate	94	94										
880-478-1	SP1	91	101										
880-478-2	SP2	113	115										
880-478-3	SP3	146 S1+	101										
880-478-4	SP4	87	108										
880-478-5	SP5	96	103										
880-478-6	HZ1	110	87										
880-478-7	HZ2	99	92										
880-478-8	HZ3	105	87										
880-478-9	HZ4	96	92										
880-880-A-1-A MS	Matrix Spike	173 S1+	102										
880-880-A-1-B MSD	Matrix Spike Duplicate	182 S1+	73										
890-414-A-1-B MS	Matrix Spike	122	98										
890-414-A-1-C MSD	Matrix Spike Duplicate	131 S1+	112										
890-419-A-1-F MS	Matrix Spike	125	111										
890-419-A-1-G MSD	Matrix Spike Duplicate	115	104										
LCS 880-1032/1-A	Lab Control Sample	91	104										
LCS 880-1052/1-A	Lab Control Sample	97	206 S1+										
LCS 880-1097/1-A	Lab Control Sample	107	106										
LCS 880-1146/1-A	Lab Control Sample	101	104										
LCSD 880-1032/2-A	Lab Control Sample Dup	93	97										
LCSD 880-1052/2-A	Lab Control Sample Dup	99	103										
LCSD 880-1097/2-A	Lab Control Sample Dup	123	108										
LCSD 880-1146/2-A	Lab Control Sample Dup	107	103										
MB 880-1032/5-A	Method Blank	112	92										
MB 880-1052/5-A	Method Blank	100	101										
MB 880-1097/5-A	Method Blank	100	100										
MB 880-1146/5-A	Method Blank	105	101										

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)										
880-478-1	SP1	80	93										
880-478-2	SP2	88	124										
880-478-3	SP3	120	102										
880-478-4	SP4	83	87										
880-478-5	SP5	98	93										
880-478-5 MS	SP5	103	89										
880-478-5 MSD	SP5	109	96										
880-478-6	HZ1	88	83										
880-478-7	HZ2	87	84										
880-478-8	HZ3	90	87										

Surrogate Summary

Client: Hungry Horse LLC
Job ID: 880-478-1
Project/Site: Hanlad State Battery #1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
880-478-9	HZ4	77	70								
LCS 880-867/2-A	Lab Control Sample	15 S1-	12 S1-								
LCSD 880-867/3-A	Lab Control Sample Dup	98	92								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1032/5-A
Matrix: Solid
Analysis Batch: 1033

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1032

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/29/21 17:04	03/29/21 20:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/21 17:04	03/29/21 20:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/21 17:04	03/29/21 20:58	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/29/21 17:04	03/29/21 20:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/29/21 17:04	03/29/21 20:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/29/21 17:04	03/29/21 20:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/21 17:04	03/29/21 20:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*03/29/21 17:04*	*03/29/21 20:58*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*03/29/21 17:04*	*03/29/21 20:58*	*1*

Lab Sample ID: LCS 880-1032/1-A
Matrix: Solid
Analysis Batch: 1033

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1032

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1002		mg/Kg		100	70 - 130		
Ethylbenzene			0.100	0.09525		mg/Kg		95	70 - 130		
Toluene			0.100	0.09861		mg/Kg		99	70 - 130		
m-Xylene & p-Xylene			0.200	0.1937		mg/Kg		97	70 - 130		
o-Xylene			0.100	0.09353		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-1032/2-A
Matrix: Solid
Analysis Batch: 1033

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1032

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08916		mg/Kg		89	70 - 130	12	35
Ethylbenzene			0.100	0.09636		mg/Kg		96	70 - 130	1	35
Toluene			0.100	0.09878		mg/Kg		99	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.1972		mg/Kg		99	70 - 130	2	35
o-Xylene			0.100	0.09656		mg/Kg		97	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-477-A-1-C MS
Matrix: Solid
Analysis Batch: 1033

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1032

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	0.00918	F2 F1	0.0996	0.04993	F1	mg/Kg		41	70 - 130		

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-477-A-1-C MS
Matrix: Solid
Analysis Batch: 1033

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1032

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	0.00505	F1	0.0996	0.02814	F1	mg/Kg		23	70 - 130
Toluene	0.0131	F1	0.0996	0.05066	F1	mg/Kg		38	70 - 130
m-Xylene & p-Xylene	<0.00401	U F2 F1	0.199	0.03597	F1	mg/Kg		17	70 - 130
o-Xylene	<0.00200	U F2 F1	0.0996	0.01441	F1	mg/Kg		14	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-477-A-1-D MSD
Matrix: Solid
Analysis Batch: 1033

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1032

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.00918	F2 F1	0.0990	0.03270	F2 F1	mg/Kg		24	70 - 130	42	35
Ethylbenzene	0.00505	F1	0.0990	0.03892	F1	mg/Kg		34	70 - 130	32	35
Toluene	0.0131	F1	0.0990	0.04049	F1	mg/Kg		28	70 - 130	22	35
m-Xylene & p-Xylene	<0.00401	U F2 F1	0.198	0.02111	F2 F1	mg/Kg		10	70 - 130	52	35
o-Xylene	<0.00200	U F2 F1	0.0990	0.008747	F2 F1	mg/Kg		9	70 - 130	49	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: MB 880-1052/5-A
Matrix: Solid
Analysis Batch: 1053

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1052

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/30/21 09:18	03/30/21 13:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/30/21 09:18	03/30/21 13:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/30/21 09:18	03/30/21 13:44	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/30/21 09:18	03/30/21 13:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/30/21 09:18	03/30/21 13:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/30/21 09:18	03/30/21 13:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/30/21 09:18	03/30/21 13:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/30/21 09:18*	*03/30/21 13:44*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/30/21 09:18*	*03/30/21 13:44*	*1*

Lab Sample ID: LCS 880-1052/1-A
Matrix: Solid
Analysis Batch: 1053

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1052

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene			0.100	0.07624		mg/Kg		76	70 - 130
Ethylbenzene			0.100	0.07393		mg/Kg		74	70 - 130

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-1052/1-A
Matrix: Solid
Analysis Batch: 1053

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1052

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Toluene			0.100	0.07294		mg/Kg		73	70 - 130		
m-Xylene & p-Xylene			0.200	0.1479		mg/Kg		74	70 - 130		
o-Xylene			0.100	0.07621		mg/Kg		76	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*206*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-1052/2-A
Matrix: Solid
Analysis Batch: 1053

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1052

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08614		mg/Kg		86	70 - 130	12	35
Ethylbenzene			0.100	0.08574		mg/Kg		86	70 - 130	15	35
Toluene			0.100	0.08256		mg/Kg		83	70 - 130	12	35
m-Xylene & p-Xylene			0.200	0.1714		mg/Kg		86	70 - 130	15	35
o-Xylene			0.100	0.08727		mg/Kg		87	70 - 130	14	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-419-A-1-F MS
Matrix: Solid
Analysis Batch: 1053

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1052

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00198	U F2	0.101	0.1164		mg/Kg		115	70 - 130		
Ethylbenzene	<0.00198	U	0.101	0.1107		mg/Kg		110	70 - 130		
Toluene	<0.00198	U	0.101	0.1083		mg/Kg		107	70 - 130		
m-Xylene & p-Xylene	<0.00397	U	0.202	0.2227		mg/Kg		110	70 - 130		
o-Xylene	<0.00198	U	0.101	0.1254		mg/Kg		124	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: 890-419-A-1-G MSD
Matrix: Solid
Analysis Batch: 1053

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1052

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U F2	0.0996	0.07765	F2	mg/Kg		78	70 - 130	40	35
Ethylbenzene	<0.00198	U	0.0996	0.09233		mg/Kg		93	70 - 130	18	35
Toluene	<0.00198	U	0.0996	0.08447		mg/Kg		85	70 - 130	25	35
m-Xylene & p-Xylene	<0.00397	U	0.199	0.1828		mg/Kg		92	70 - 130	20	35
o-Xylene	<0.00198	U	0.0996	0.1028		mg/Kg		103	70 - 130	20	35

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-1097/5-A
Matrix: Solid
Analysis Batch: 1099

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1097

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/31/21 10:40	03/31/21 14:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/31/21 10:40	03/31/21 14:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/31/21 10:40	03/31/21 14:19	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/31/21 10:40	03/31/21 14:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/31/21 10:40	03/31/21 14:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/31/21 10:40	03/31/21 14:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/31/21 10:40	03/31/21 14:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/31/21 10:40	03/31/21 14:19	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/31/21 10:40	03/31/21 14:19	1

Lab Sample ID: LCS 880-1097/1-A
Matrix: Solid
Analysis Batch: 1099

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1097

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1089		mg/Kg		109	70 - 130		
Ethylbenzene			0.100	0.1055		mg/Kg		105	70 - 130		
Toluene			0.100	0.1039		mg/Kg		104	70 - 130		
m-Xylene & p-Xylene			0.200	0.2119		mg/Kg		106	70 - 130		
o-Xylene			0.100	0.1129		mg/Kg		113	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-1097/2-A
Matrix: Solid
Analysis Batch: 1099

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1097

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1291		mg/Kg		129	70 - 130	17	35
Ethylbenzene			0.100	0.1277		mg/Kg		128	70 - 130	19	35
Toluene			0.100	0.1233		mg/Kg		123	70 - 130	17	35
m-Xylene & p-Xylene			0.200	0.2591		mg/Kg		130	70 - 130	20	35
o-Xylene			0.100	0.1415	*+	mg/Kg		142	70 - 130	22	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-880-A-1-A MS
Matrix: Solid
Analysis Batch: 1099

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1097

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0466	F1	0.0990	0.03788	F1	mg/Kg		-9	70 - 130
Ethylbenzene	0.301	F2 F1	0.0990	0.1000	F1	mg/Kg		-203	70 - 130
Toluene	0.285	F2 F1	0.0990	0.1122	F1	mg/Kg		-175	70 - 130
m-Xylene & p-Xylene	0.362	F2 F1	0.198	0.1344	F1	mg/Kg		-115	70 - 130
o-Xylene	0.203	*+ F2 F1	0.0990	0.05346	F1	mg/Kg		-151	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*173*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 880-880-A-1-B MSD
Matrix: Solid
Analysis Batch: 1099

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1097

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0466	F1	0.0994	0.05051	F1	mg/Kg		4	70 - 130	29	35
Ethylbenzene	0.301	F2 F1	0.0994	0.2082	F2 F1	mg/Kg		-93	70 - 130	70	35
Toluene	0.285	F2 F1	0.0994	0.1957	F2 F1	mg/Kg		-90	70 - 130	54	35
m-Xylene & p-Xylene	0.362	F2 F1	0.199	0.2518	F2 F1	mg/Kg		-55	70 - 130	61	35
o-Xylene	0.203	*+ F2 F1	0.0994	0.1042	F2 F1	mg/Kg		-100	70 - 130	64	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*182*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*

Lab Sample ID: MB 880-1146/5-A
Matrix: Solid
Analysis Batch: 1148

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1146

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/01/21 09:34	04/01/21 13:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/01/21 09:34	04/01/21 13:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/01/21 09:34	04/01/21 13:09	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/01/21 09:34	04/01/21 13:09	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/01/21 09:34	04/01/21 13:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/01/21 09:34	04/01/21 13:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/01/21 09:34	04/01/21 13:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*04/01/21 09:34*	*04/01/21 13:09*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*04/01/21 09:34*	*04/01/21 13:09*	*1*

Lab Sample ID: LCS 880-1146/1-A
Matrix: Solid
Analysis Batch: 1148

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1146

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08719		mg/Kg		87	70 - 130

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-1146/1-A
Matrix: Solid
Analysis Batch: 1148

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1146

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			0.100	0.08356		mg/Kg		84	70 - 130		
Toluene			0.100	0.08099		mg/Kg		81	70 - 130		
m-Xylene & p-Xylene			0.200	0.1689		mg/Kg		84	70 - 130		
o-Xylene			0.100	0.08691		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-1146/2-A
Matrix: Solid
Analysis Batch: 1148

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1146

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08839		mg/Kg		88	70 - 130	1	35
Ethylbenzene			0.100	0.08663		mg/Kg		87	70 - 130	4	35
Toluene			0.100	0.08269		mg/Kg		83	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.1754		mg/Kg		88	70 - 130	4	35
o-Xylene			0.100	0.09110		mg/Kg		91	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-414-A-1-B MS
Matrix: Solid
Analysis Batch: 1148

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1146

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00199	U F2	0.0996	0.08200		mg/Kg		82	70 - 130		
Ethylbenzene	<0.00199	U	0.0996	0.1038		mg/Kg		104	70 - 130		
Toluene	<0.00199	U	0.0996	0.09594		mg/Kg		96	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2071		mg/Kg		103	70 - 130		
o-Xylene	<0.00199	U	0.0996	0.1182		mg/Kg		118	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 890-414-A-1-C MSD
Matrix: Solid
Analysis Batch: 1148

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1146

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F2	0.0990	0.1189	F2	mg/Kg		120	70 - 130	37	35
Ethylbenzene	<0.00199	U	0.0990	0.1108		mg/Kg		112	70 - 130	6	35
Toluene	<0.00199	U	0.0990	0.1087		mg/Kg		109	70 - 130	12	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2239		mg/Kg		113	70 - 130	8	35

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-414-A-1-C MSD
Matrix: Solid
Analysis Batch: 1148

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1146

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	<0.00199	U	0.0990	0.1260		mg/Kg		127	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: LCS 880-867/2-A
Matrix: Solid
Analysis Batch: 847

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 867

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1106		mg/Kg		111	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1023		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*15*	*S1-*	*70 - 130*
o-Terphenyl	*12*	*S1-*	*70 - 130*

Lab Sample ID: LCSD 880-867/3-A
Matrix: Solid
Analysis Batch: 847

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 867

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1060		mg/Kg		106	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	955.5		mg/Kg		96	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*92*		*70 - 130*

Lab Sample ID: 880-478-5 MS
Matrix: Solid
Analysis Batch: 847

Client Sample ID: SP5
Prep Type: Total/NA
Prep Batch: 867

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1133		mg/Kg		112	70 - 130		
Diesel Range Organics (Over C10-C28)	70.3		999	901.9		mg/Kg		83	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*89*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-478-5 MSD
Matrix: Solid
Analysis Batch: 847

Client Sample ID: SP5
Prep Type: Total/NA
Prep Batch: 867

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	<49.9	U	997	1157		mg/Kg		114	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	70.3		997	1011		mg/Kg		94	70 - 130	11	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*109*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-909/1-A
Matrix: Solid
Analysis Batch: 935

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			03/26/21 20:09	1

Lab Sample ID: LCS 880-909/2-A
Matrix: Solid
Analysis Batch: 935

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	269.6		mg/Kg		108	90 - 110		

Lab Sample ID: LCSD 880-909/3-A
Matrix: Solid
Analysis Batch: 935

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	269.0		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 880-477-A-4-C MS
Matrix: Solid
Analysis Batch: 935

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	147		250	414.3		mg/Kg		107	90 - 110		

Lab Sample ID: 880-477-A-4-D MSD
Matrix: Solid
Analysis Batch: 935

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	147		250	412.1		mg/Kg		106	90 - 110	1	20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-990/1-A
Matrix: Solid
Analysis Batch: 991

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			03/29/21 13:09	1

Lab Sample ID: LCS 880-990/2-A
Matrix: Solid
Analysis Batch: 991

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	273.0		mg/Kg		109	90 - 110		

Lab Sample ID: LCSD 880-990/3-A
Matrix: Solid
Analysis Batch: 991

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	274.2		mg/Kg		110	90 - 110	0	20

GC VOA

Prep Batch: 1032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-478-1	SP1	Total/NA	Solid	5035	
880-478-2	SP2	Total/NA	Solid	5035	
880-478-3	SP3	Total/NA	Solid	5035	
880-478-4	SP4	Total/NA	Solid	5035	
880-478-5	SP5	Total/NA	Solid	5035	
880-478-6	HZ1	Total/NA	Solid	5035	
880-478-7	HZ2	Total/NA	Solid	5035	
880-478-8	HZ3	Total/NA	Solid	5035	
880-478-9	HZ4	Total/NA	Solid	5035	
MB 880-1032/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1032/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1032/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-477-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-477-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 1033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-478-1	SP1	Total/NA	Solid	8021B	1032
880-478-2	SP2	Total/NA	Solid	8021B	1032
880-478-3	SP3	Total/NA	Solid	8021B	1032
880-478-4	SP4	Total/NA	Solid	8021B	1032
880-478-5	SP5	Total/NA	Solid	8021B	1032
880-478-6	HZ1	Total/NA	Solid	8021B	1032
880-478-7	HZ2	Total/NA	Solid	8021B	1032
880-478-8	HZ3	Total/NA	Solid	8021B	1032
880-478-9	HZ4	Total/NA	Solid	8021B	1032
MB 880-1032/5-A	Method Blank	Total/NA	Solid	8021B	1032
LCS 880-1032/1-A	Lab Control Sample	Total/NA	Solid	8021B	1032
LCSD 880-1032/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1032
880-477-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	1032
880-477-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	1032

Prep Batch: 1052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-478-2	SP2	Total/NA	Solid	5035	
880-478-4	SP4	Total/NA	Solid	5035	
MB 880-1052/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1052/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1052/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-419-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
890-419-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 1053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-478-2	SP2	Total/NA	Solid	8021B	1052
880-478-4	SP4	Total/NA	Solid	8021B	1052
MB 880-1052/5-A	Method Blank	Total/NA	Solid	8021B	1052
LCS 880-1052/1-A	Lab Control Sample	Total/NA	Solid	8021B	1052
LCSD 880-1052/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1052
890-419-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	1052
890-419-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	1052

GC VOA

Prep Batch: 1097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-1097/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1097/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1097/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-880-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-880-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 1099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-1097/5-A	Method Blank	Total/NA	Solid	8021B	1097
LCS 880-1097/1-A	Lab Control Sample	Total/NA	Solid	8021B	1097
LCSD 880-1097/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1097
880-880-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	1097
880-880-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	1097

Prep Batch: 1146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-478-3	SP3	Total/NA	Solid	5035	
MB 880-1146/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1146/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1146/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-414-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-414-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 1148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-478-3	SP3	Total/NA	Solid	8021B	1146
MB 880-1146/5-A	Method Blank	Total/NA	Solid	8021B	1146
LCS 880-1146/1-A	Lab Control Sample	Total/NA	Solid	8021B	1146
LCSD 880-1146/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1146
890-414-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	1146
890-414-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	1146

GC Semi VOA

Analysis Batch: 847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-478-1	SP1	Total/NA	Solid	8015B NM	867
880-478-2	SP2	Total/NA	Solid	8015B NM	867
880-478-3	SP3	Total/NA	Solid	8015B NM	867
880-478-4	SP4	Total/NA	Solid	8015B NM	867
880-478-5	SP5	Total/NA	Solid	8015B NM	867
880-478-6	HZ1	Total/NA	Solid	8015B NM	867
880-478-7	HZ2	Total/NA	Solid	8015B NM	867
880-478-8	HZ3	Total/NA	Solid	8015B NM	867
880-478-9	HZ4	Total/NA	Solid	8015B NM	867
LCS 880-867/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	867
LCSD 880-867/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	867
880-478-5 MS	SP5	Total/NA	Solid	8015B NM	867
880-478-5 MSD	SP5	Total/NA	Solid	8015B NM	867

GC Semi VOA

Prep Batch: 867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-478-1	SP1	Total/NA	Solid	8015NM Prep	
880-478-2	SP2	Total/NA	Solid	8015NM Prep	
880-478-3	SP3	Total/NA	Solid	8015NM Prep	
880-478-4	SP4	Total/NA	Solid	8015NM Prep	
880-478-5	SP5	Total/NA	Solid	8015NM Prep	
880-478-6	HZ1	Total/NA	Solid	8015NM Prep	
880-478-7	HZ2	Total/NA	Solid	8015NM Prep	
880-478-8	HZ3	Total/NA	Solid	8015NM Prep	
880-478-9	HZ4	Total/NA	Solid	8015NM Prep	
LCS 880-867/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-867/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-478-5 MS	SP5	Total/NA	Solid	8015NM Prep	
880-478-5 MSD	SP5	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-478-1	SP1	Soluble	Solid	DI Leach	
880-478-2	SP2	Soluble	Solid	DI Leach	
880-478-3	SP3	Soluble	Solid	DI Leach	
880-478-4	SP4	Soluble	Solid	DI Leach	
880-478-5	SP5	Soluble	Solid	DI Leach	
880-478-6	HZ1	Soluble	Solid	DI Leach	
MB 880-909/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-909/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-909/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-477-A-4-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-477-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-478-1	SP1	Soluble	Solid	300.0	909
880-478-2	SP2	Soluble	Solid	300.0	909
880-478-3	SP3	Soluble	Solid	300.0	909
880-478-4	SP4	Soluble	Solid	300.0	909
880-478-5	SP5	Soluble	Solid	300.0	909
880-478-6	HZ1	Soluble	Solid	300.0	909
MB 880-909/1-A	Method Blank	Soluble	Solid	300.0	909
LCS 880-909/2-A	Lab Control Sample	Soluble	Solid	300.0	909
LCSD 880-909/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	909
880-477-A-4-C MS	Matrix Spike	Soluble	Solid	300.0	909
880-477-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	909

Leach Batch: 990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-478-7	HZ2	Soluble	Solid	DI Leach	
880-478-8	HZ3	Soluble	Solid	DI Leach	
880-478-9	HZ4	Soluble	Solid	DI Leach	
MB 880-990/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-990/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

HPLC/IC (Continued)

Leach Batch: 990 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-990/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-478-7 MS	HZ2	Soluble	Solid	DI Leach	
880-478-7 MSD	HZ2	Soluble	Solid	DI Leach	

Analysis Batch: 991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-478-7	HZ2	Soluble	Solid	300.0	990
880-478-8	HZ3	Soluble	Solid	300.0	990
880-478-9	HZ4	Soluble	Solid	300.0	990
MB 880-990/1-A	Method Blank	Soluble	Solid	300.0	990
LCS 880-990/2-A	Lab Control Sample	Soluble	Solid	300.0	990
LCSD 880-990/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	990
880-478-7 MS	HZ2	Soluble	Solid	300.0	990
880-478-7 MSD	HZ2	Soluble	Solid	300.0	990

Lab Chronicle

Client: Hungry Horse LLC
Project/Site: Hanlad State Battery #1

Job ID: 880-478-1

Client Sample ID: SP1

Lab Sample ID: 880-478-1

Date Collected: 03/15/21 00:00
Matrix: Solid
Date Received: 03/19/21 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1032	03/29/21 17:04	KL	XM
Total/NA	Analysis	8021B		1	1033	03/29/21 23:44	KL	XM
Total/NA	Prep	8015NM Prep			867	03/25/21 14:15	DM	XM
Total/NA	Analysis	8015B NM		10	847	03/25/21 22:34	AM	XM
Soluble	Leach	DI Leach			909	03/26/21 14:24	CH	XM
Soluble	Analysis	300.0		1	935	03/26/21 22:22	CH	XM

Client Sample ID: SP2

Lab Sample ID: 880-478-2

Date Collected: 03/15/21 00:00
Matrix: Solid
Date Received: 03/19/21 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1032	03/29/21 17:04	KL	XM
Total/NA	Analysis	8021B		1	1033	03/30/21 00:05	KL	XM
Total/NA	Prep	5035			1052	03/30/21 09:18	KL	XM
Total/NA	Analysis	8021B		20	1053	03/30/21 17:09	KL	XM
Total/NA	Prep	8015NM Prep			867	03/25/21 14:15	DM	XM
Total/NA	Analysis	8015B NM		10	847	03/26/21 00:06	AM	XM
Soluble	Leach	DI Leach			909	03/26/21 14:24	CH	XM
Soluble	Analysis	300.0		1	935	03/26/21 22:33	CH	XM

Client Sample ID: SP3

Lab Sample ID: 880-478-3

Date Collected: 03/15/21 00:00
Matrix: Solid
Date Received: 03/19/21 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1032	03/29/21 17:04	KL	XM
Total/NA	Analysis	8021B		500	1033	03/30/21 00:26	KL	XM
Total/NA	Prep	5035			1146	04/01/21 09:34	KL	XM
Total/NA	Analysis	8021B		1000	1148	04/01/21 15:15	KL	XM
Total/NA	Prep	8015NM Prep			867	03/25/21 14:15	DM	XM
Total/NA	Analysis	8015B NM		10	847	03/26/21 00:36	AM	XM
Soluble	Leach	DI Leach			909	03/26/21 14:24	CH	XM
Soluble	Analysis	300.0		1	935	03/26/21 22:38	CH	XM

Client Sample ID: SP4

Lab Sample ID: 880-478-4

Date Collected: 03/15/21 00:00
Matrix: Solid
Date Received: 03/19/21 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1032	03/29/21 17:04	KL	XM
Total/NA	Analysis	8021B		1	1033	03/30/21 01:49	KL	XM
Total/NA	Prep	5035			1052	03/30/21 09:18	KL	XM
Total/NA	Analysis	8021B		50	1053	03/30/21 16:49	KL	XM

Lab Chronicle

Client: Hungry Horse LLC
Project/Site: Hanlad State Battery #1

Job ID: 880-478-1

Client Sample ID: SP4

Lab Sample ID: 880-478-4

Date Collected: 03/15/21 00:00
Matrix: Solid
Date Received: 03/19/21 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			867	03/25/21 14:15	DM	XM
Total/NA	Analysis	8015B NM		5	847	03/26/21 01:08	AM	XM
Soluble	Leach	DI Leach			909	03/26/21 14:24	CH	XM
Soluble	Analysis	300.0		1	935	03/26/21 22:44	CH	XM

Client Sample ID: SP5

Lab Sample ID: 880-478-5

Date Collected: 03/15/21 00:00
Matrix: Solid
Date Received: 03/19/21 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1032	03/29/21 17:04	KL	XM
Total/NA	Analysis	8021B		1	1033	03/30/21 02:09	KL	XM
Total/NA	Prep	8015NM Prep			867	03/25/21 14:15	DM	XM
Total/NA	Analysis	8015B NM		1	847	03/26/21 01:30	AM	XM
Soluble	Leach	DI Leach			909	03/26/21 14:24	CH	XM
Soluble	Analysis	300.0		1	935	03/26/21 22:49	CH	XM

Client Sample ID: HZ1

Lab Sample ID: 880-478-6

Date Collected: 03/15/21 00:00
Matrix: Solid
Date Received: 03/19/21 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1032	03/29/21 17:04	KL	XM
Total/NA	Analysis	8021B		1	1033	03/30/21 02:30	KL	XM
Total/NA	Prep	8015NM Prep			867	03/25/21 14:15	DM	XM
Total/NA	Analysis	8015B NM		1	847	03/26/21 01:51	AM	XM
Soluble	Leach	DI Leach			909	03/26/21 14:24	CH	XM
Soluble	Analysis	300.0		1	935	03/26/21 22:55	CH	XM

Client Sample ID: HZ2

Lab Sample ID: 880-478-7

Date Collected: 03/15/21 00:00
Matrix: Solid
Date Received: 03/19/21 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1032	03/29/21 17:04	KL	XM
Total/NA	Analysis	8021B		1	1033	03/30/21 02:51	KL	XM
Total/NA	Prep	8015NM Prep			867	03/25/21 14:15	DM	XM
Total/NA	Analysis	8015B NM		1	847	03/26/21 02:21	AM	XM
Soluble	Leach	DI Leach			990	03/29/21 10:13	CH	XM
Soluble	Analysis	300.0		1	991	03/29/21 13:24	CH	XM

Lab Chronicle

Client: Hungry Horse LLC
Project/Site: Hanlad State Battery #1

Job ID: 880-478-1

Client Sample ID: HZ3

Lab Sample ID: 880-478-8

Date Collected: 03/15/21 00:00
Matrix: Solid
Date Received: 03/19/21 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1032	03/29/21 17:04	KL	XM
Total/NA	Analysis	8021B		1	1033	03/30/21 03:11	KL	XM
Total/NA	Prep	8015NM Prep			867	03/25/21 14:15	DM	XM
Total/NA	Analysis	8015B NM		1	847	03/26/21 02:46	AM	XM
Soluble	Leach	DI Leach			990	03/29/21 10:13	CH	XM
Soluble	Analysis	300.0		1	991	03/29/21 13:39	CH	XM

Client Sample ID: HZ4

Lab Sample ID: 880-478-9

Date Collected: 03/15/21 00:00
Matrix: Solid
Date Received: 03/19/21 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1032	03/29/21 17:04	KL	XM
Total/NA	Analysis	8021B		1	1033	03/30/21 03:32	KL	XM
Total/NA	Prep	8015NM Prep			867	03/25/21 14:15	DM	XM
Total/NA	Analysis	8015B NM		1	847	03/26/21 03:07	AM	XM
Soluble	Leach	DI Leach			990	03/29/21 10:13	CH	XM
Soluble	Analysis	300.0		1	991	03/29/21 13:44	CH	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
Job ID: 880-478-1
Project/Site: Hanlad State Battery #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: Hanlad State Battery #1

Job ID: 880-478-1

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
Job ID: 880-478-1
Project/Site: Hanlad State Battery #1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-478-1	SP1	Solid	03/15/21 00:00	03/19/21 00:00	
880-478-2	SP2	Solid	03/15/21 00:00	03/19/21 00:00	
880-478-3	SP3	Solid	03/15/21 00:00	03/19/21 00:00	
880-478-4	SP4	Solid	03/15/21 00:00	03/19/21 00:00	
880-478-5	SP5	Solid	03/15/21 00:00	03/19/21 00:00	
880-478-6	HZ1	Solid	03/15/21 00:00	03/19/21 00:00	
880-478-7	HZ2	Solid	03/15/21 00:00	03/19/21 00:00	
880-478-8	HZ3	Solid	03/15/21 00:00	03/19/21 00:00	
880-478-9	HZ4	Solid	03/15/21 00:00	03/19/21 00:00	

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

V

880-478 COC

4/1/2021

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Project Manager	Lindsey Nevels	Bill to (if different)	
Company Name	Hungry Horse LLC	Company Name	Hanson Operating
Address.	PO Box 1058	Address.	P O Box 1515
City State ZIP	Hobbs, Nm 88241	City State ZIP	Roswell NM 88202
Phone	432 241-2480	Email	pm@hungry-horse com

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.	Hanlad	Turn Around	
Project Number		☑ Routine ☐ Rush	
Project Location	Hanlad State Battery #1	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		1B0
Cooler Custody Seals	Yes No (N/A)	Correction Factor		0.5
Sample Custody Seals	Yes No (N/A)	Temperature Reading		2.1
Total Containers.		Corrected Temperature.		2.6

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride	TPH	BTEX
SP1	S	3/15/2021		Surface		1		X	X	X
SP2	S	3/15/2021		Surface		1		X	X	X
SP3	S	3/15/2021		Surface		1		X	X	X
SP4	S	3/15/2021		Surface		1		X	X	X
SP5	S	3/15/2021		Surface		1		X	X	X
HZ1	S	3/15/2021		Surface		1		X	X	X
HZ2	S	3/15/2021		Surface		1		X	X	X
HZ3	S	3/15/2021		Surface		1		X	X	X
HZ4	S	3/15/2021		Surface		1		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		NR	3/18/3-18	2	NR		3/19/21
3				4			1330
5				6			

Revised Date 05012020 Rev 2020.1

Login Sample Receipt Checklist

Client: Hungry Horse LLC

Job Number: 880-478-1
SDG Number:

Login Number: 478
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	

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ANALYTICAL REPORT

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

Laboratory Job ID: 880-512-1
Client Project/Site: Hanlad A Battery #1

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

Attn: Lindsey Nevels

Holly Taylor

Authorized for release by:
4/1/2021 5:00:07 PM

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

Table of Contents

Definitions/Glossary

Client: Hungry Horse LLC
Project/Site: Hanlad A Battery #1

Job ID: 880-512-1

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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

Job ID: 880-512-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-512-1

Receipt
The samples were received on 3/22/2021 12:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°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: Hanlad A Battery #1

Job ID: 880-512-1

Client Sample ID: HZ1-1' — Lab Sample ID: 880-512-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Chloride	42.3		4.97		mg/Kg	1		300.0	Soluble

Client Sample ID: HZ2-1' — Lab Sample ID: 880-512-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Chloride	39.7		4.99		mg/Kg	1		300.0	Soluble

Client Sample ID: HZ3-1' — Lab Sample ID: 880-512-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Chloride	39.2		4.98		mg/Kg	1		300.0	Soluble

Client Sample ID: HZ4-1' — Lab Sample ID: 880-512-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Chloride	38.4		5.04		mg/Kg	1		300.0	Soluble

This Detection Summary does not include radiochemical test results.

Client Sample ID: HZ1-1'

Lab Sample ID: 880-512-1

Date Collected: 03/17/21 00:00
Matrix: Solid
Date Received: 03/22/21 00:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/29/21 16:37	03/30/21 11:07	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/29/21 16:37	03/30/21 11:07	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/29/21 16:37	03/30/21 11:07	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		03/29/21 16:37	03/30/21 11:07	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/29/21 16:37	03/30/21 11:07	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/29/21 16:37	03/30/21 11:07	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/29/21 16:37	03/30/21 11:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*03/29/21 16:37*	*03/30/21 11:07*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*03/29/21 16:37*	*03/30/21 11:07*	*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	<49.9	U F2	49.9		mg/Kg		03/25/21 15:56	03/27/21 21:58	1
Total TPH	<49.9	U F1 F2	49.9		mg/Kg		03/25/21 15:56	03/27/21 21:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	49.9		mg/Kg		03/25/21 15:56	03/27/21 21:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/25/21 15:56	03/27/21 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*03/25/21 15:56*	*03/27/21 21:58*	*1*
o-Terphenyl	*82*		*70 - 130*	*03/25/21 15:56*	*03/27/21 21:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**42.3**		4.97		mg/Kg			03/31/21 20:00	1

Client Sample ID: HZ2-1'

Lab Sample ID: 880-512-2

Date Collected: 03/17/21 00:00
Matrix: Solid
Date Received: 03/22/21 00:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/29/21 16:37	03/30/21 11:28	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/29/21 16:37	03/30/21 11:28	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/29/21 16:37	03/30/21 11:28	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/29/21 16:37	03/30/21 11:28	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/29/21 16:37	03/30/21 11:28	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/29/21 16:37	03/30/21 11:28	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/29/21 16:37	03/30/21 11:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*03/29/21 16:37*	*03/30/21 11:28*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/29/21 16:37*	*03/30/21 11:28*	*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	<49.9	U	49.9		mg/Kg		03/25/21 15:56	03/27/21 23:02	1
Total TPH	<49.9	U	49.9		mg/Kg		03/25/21 15:56	03/27/21 23:02	1

Client Sample ID: HZ2-1'

Date Collected: 03/17/21 00:00
Date Received: 03/22/21 00:00

Lab Sample ID: 880-512-2
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/25/21 15:56	03/27/21 23:02	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/25/21 15:56	03/27/21 23:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*53*	*S1-*	*70 - 130*	*03/25/21 15:56*	*03/27/21 23:02*	*1*
o-Terphenyl	*49*	*S1-*	*70 - 130*	*03/25/21 15:56*	*03/27/21 23:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.7**		4.99		mg/Kg			03/31/21 20:05	1

Client Sample ID: HZ3-1'

Date Collected: 03/17/21 00:00
Date Received: 03/22/21 00:00

Lab Sample ID: 880-512-3
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/29/21 16:37	03/30/21 11:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/21 16:37	03/30/21 11:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/21 16:37	03/30/21 11:48	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/29/21 16:37	03/30/21 11:48	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/29/21 16:37	03/30/21 11:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/29/21 16:37	03/30/21 11:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/21 16:37	03/30/21 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*03/29/21 16:37*	*03/30/21 11:48*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/29/21 16:37*	*03/30/21 11:48*	*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	<49.9	U	49.9		mg/Kg		03/25/21 15:56	03/27/21 23:22	1
Total TPH	<49.9	U	49.9		mg/Kg		03/25/21 15:56	03/27/21 23:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/25/21 15:56	03/27/21 23:22	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/25/21 15:56	03/27/21 23:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*03/25/21 15:56*	*03/27/21 23:22*	*1*
o-Terphenyl	*95*		*70 - 130*	*03/25/21 15:56*	*03/27/21 23:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.2**		4.98		mg/Kg			03/31/21 20:58	1

Client Sample Results

Client: Hungry Horse LLC
Project/Site: Hanlad A Battery #1

Job ID: 880-512-1

Client Sample ID: HZ4-1'

Date Collected: 03/17/21 00:00
Date Received: 03/22/21 00:00

Lab Sample ID: 880-512-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/29/21 16:37	03/30/21 12:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/21 16:37	03/30/21 12:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/21 16:37	03/30/21 12:09	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/29/21 16:37	03/30/21 12:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/29/21 16:37	03/30/21 12:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/29/21 16:37	03/30/21 12:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/21 16:37	03/30/21 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*03/29/21 16:37*	*03/30/21 12:09*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*03/29/21 16:37*	*03/30/21 12:09*	*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	<50.0	U	50.0		mg/Kg		03/25/21 15:56	03/27/21 23:43	1
Total TPH	<50.0	U	50.0		mg/Kg		03/25/21 15:56	03/27/21 23:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/25/21 15:56	03/27/21 23:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/25/21 15:56	03/27/21 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*03/25/21 15:56*	*03/27/21 23:43*	*1*
o-Terphenyl	*79*		*70 - 130*	*03/25/21 15:56*	*03/27/21 23:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.4**		5.04		mg/Kg			03/31/21 21:14	1

Surrogate Summary

Client: Hungry Horse LLC
Project/Site: Hanlad A Battery #1

Job ID: 880-512-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-512-1	HZ1-1'	115	99
880-512-2	HZ2-1'	112	101
880-512-3	HZ3-1'	116	98
880-512-4	HZ4-1'	115	103

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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-512-1	HZ1-1'	85	82
880-512-1 MS	HZ1-1'	62 S1-	55 S1-
880-512-1 MSD	HZ1-1'	97	89
880-512-2	HZ2-1'	53 S1-	49 S1-
880-512-3	HZ3-1'	95	95
880-512-4	HZ4-1'	81	79
LCS 880-871/2-A	Lab Control Sample	92	87
LCSD 880-871/3-A	Lab Control Sample Dup	92	85
MB 880-871/1-A	Method Blank	94	95

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-871/1-A
Matrix: Solid
Analysis Batch: 939

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 871

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		03/25/21 15:56	03/27/21 20:55	1
Total TPH	<50.0	U	50.0		mg/Kg		03/25/21 15:56	03/27/21 20:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/25/21 15:56	03/27/21 20:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/25/21 15:56	03/27/21 20:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*03/25/21 15:56*	*03/27/21 20:55*	*1*
o-Terphenyl	*95*		*70 - 130*	*03/25/21 15:56*	*03/27/21 20:55*	*1*

Lab Sample ID: LCS 880-871/2-A
Matrix: Solid
Analysis Batch: 939

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 871

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	983.9		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	864.3		mg/Kg		86	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

Lab Sample ID: LCSD 880-871/3-A
Matrix: Solid
Analysis Batch: 939

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 871

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	992.6		mg/Kg		99	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	848.6		mg/Kg		85	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

Lab Sample ID: 880-512-1 MS
Matrix: Solid
Analysis Batch: 939

Client Sample ID: HZ1-1'
Prep Type: Total/NA
Prep Batch: 871

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	999	751.8		mg/Kg		74	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	999	622.1	F1	mg/Kg		62	70 - 130		

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-512-1 MS
Matrix: Solid
Analysis Batch: 939

Client Sample ID: HZ1-1'
Prep Type: Total/NA
Prep Batch: 871

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*62*	*S1-*	*70 - 130*
o-Terphenyl	*55*	*S1-*	*70 - 130*

Lab Sample ID: 880-512-1 MSD
Matrix: Solid
Analysis Batch: 939

Client Sample ID: HZ1-1'
Prep Type: Total/NA
Prep Batch: 871

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	<49.9	U F2	997	1155	F2	mg/Kg		114	70 - 130	42	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	997	998.1	F2	mg/Kg		100	70 - 130	46	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*89*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1016/1-A
Matrix: Solid
Analysis Batch: 1128

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			03/31/21 17:37	1

Lab Sample ID: LCS 880-1016/2-A
Matrix: Solid
Analysis Batch: 1128

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	248.3		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-1016/3-A
Matrix: Solid
Analysis Batch: 1128

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	249.0		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-1018/1-A
Matrix: Solid
Analysis Batch: 1129

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			03/31/21 20:43	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-1018/2-A
Matrix: Solid
Analysis Batch: 1129

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	249.5		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-1018/3-A
Matrix: Solid
Analysis Batch: 1129

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	246.7		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 880-512-3 MS
Matrix: Solid
Analysis Batch: 1129

Client Sample ID: HZ3-1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	39.2		249	279.8		mg/Kg		97	90 - 110		

Lab Sample ID: 880-512-3 MSD
Matrix: Solid
Analysis Batch: 1129

Client Sample ID: HZ3-1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	39.2		249	280.6		mg/Kg		97	90 - 110	0	20

QC Association Summary

Client: Hungry Horse LLC
Project/Site: Hanlad A Battery #1

Job ID: 880-512-1

GC VOA

Analysis Batch: 1023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-512-1	HZ1-1'	Total/NA	Solid	8021B	1027
880-512-2	HZ2-1'	Total/NA	Solid	8021B	1027
880-512-3	HZ3-1'	Total/NA	Solid	8021B	1027
880-512-4	HZ4-1'	Total/NA	Solid	8021B	1027

Prep Batch: 1027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-512-1	HZ1-1'	Total/NA	Solid	5035	
880-512-2	HZ2-1'	Total/NA	Solid	5035	
880-512-3	HZ3-1'	Total/NA	Solid	5035	
880-512-4	HZ4-1'	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-512-1	HZ1-1'	Total/NA	Solid	8015NM Prep	
880-512-2	HZ2-1'	Total/NA	Solid	8015NM Prep	
880-512-3	HZ3-1'	Total/NA	Solid	8015NM Prep	
880-512-4	HZ4-1'	Total/NA	Solid	8015NM Prep	
MB 880-871/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-871/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-871/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-512-1 MS	HZ1-1'	Total/NA	Solid	8015NM Prep	
880-512-1 MSD	HZ1-1'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-512-1	HZ1-1'	Total/NA	Solid	8015B NM	871
880-512-2	HZ2-1'	Total/NA	Solid	8015B NM	871
880-512-3	HZ3-1'	Total/NA	Solid	8015B NM	871
880-512-4	HZ4-1'	Total/NA	Solid	8015B NM	871
MB 880-871/1-A	Method Blank	Total/NA	Solid	8015B NM	871
LCS 880-871/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	871
LCSD 880-871/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	871
880-512-1 MS	HZ1-1'	Total/NA	Solid	8015B NM	871
880-512-1 MSD	HZ1-1'	Total/NA	Solid	8015B NM	871

HPLC/IC

Leach Batch: 1016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-512-1	HZ1-1'	Soluble	Solid	DI Leach	
880-512-2	HZ2-1'	Soluble	Solid	DI Leach	
MB 880-1016/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1016/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1016/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 1018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-512-3	HZ3-1'	Soluble	Solid	DI Leach	
880-512-4	HZ4-1'	Soluble	Solid	DI Leach	

HPLC/IC (Continued)

Leach Batch: 1018 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-1018/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1018/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1018/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-512-3 MS	HZ3-1'	Soluble	Solid	DI Leach	
880-512-3 MSD	HZ3-1'	Soluble	Solid	DI Leach	

Analysis Batch: 1128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-512-1	HZ1-1'	Soluble	Solid	300.0	1016
880-512-2	HZ2-1'	Soluble	Solid	300.0	1016
MB 880-1016/1-A	Method Blank	Soluble	Solid	300.0	1016
LCS 880-1016/2-A	Lab Control Sample	Soluble	Solid	300.0	1016
LCSD 880-1016/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1016

Analysis Batch: 1129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-512-3	HZ3-1'	Soluble	Solid	300.0	1018
880-512-4	HZ4-1'	Soluble	Solid	300.0	1018
MB 880-1018/1-A	Method Blank	Soluble	Solid	300.0	1018
LCS 880-1018/2-A	Lab Control Sample	Soluble	Solid	300.0	1018
LCSD 880-1018/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1018
880-512-3 MS	HZ3-1'	Soluble	Solid	300.0	1018
880-512-3 MSD	HZ3-1'	Soluble	Solid	300.0	1018

Lab Chronicle

Client: Hungry Horse LLC
Project/Site: Hanlad A Battery #1

Job ID: 880-512-1

Client Sample ID: HZ1-1'
Date Collected: 03/17/21 00:00
Date Received: 03/22/21 00:00

Lab Sample ID: 880-512-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1027	03/29/21 16:37	MR	XM
Total/NA	Analysis	8021B		1	1023	03/30/21 11:07	MR	XM
Total/NA	Prep	8015NM Prep			871	03/25/21 15:56	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/27/21 21:58	AJ	XM
Soluble	Leach	DI Leach			1016	03/29/21 14:32	CH	XM
Soluble	Analysis	300.0		1	1128	03/31/21 20:00	WP	XM

Client Sample ID: HZ2-1'
Date Collected: 03/17/21 00:00
Date Received: 03/22/21 00:00

Lab Sample ID: 880-512-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1027	03/29/21 16:37	MR	XM
Total/NA	Analysis	8021B		1	1023	03/30/21 11:28	MR	XM
Total/NA	Prep	8015NM Prep			871	03/25/21 15:56	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/27/21 23:02	AJ	XM
Soluble	Leach	DI Leach			1016	03/29/21 14:32	CH	XM
Soluble	Analysis	300.0		1	1128	03/31/21 20:05	WP	XM

Client Sample ID: HZ3-1'
Date Collected: 03/17/21 00:00
Date Received: 03/22/21 00:00

Lab Sample ID: 880-512-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1027	03/29/21 16:37	MR	XM
Total/NA	Analysis	8021B		1	1023	03/30/21 11:48	MR	XM
Total/NA	Prep	8015NM Prep			871	03/25/21 15:56	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/27/21 23:22	AJ	XM
Soluble	Leach	DI Leach			1018	03/29/21 14:37	CH	XM
Soluble	Analysis	300.0		1	1129	03/31/21 20:58	WP	XM

Client Sample ID: HZ4-1'
Date Collected: 03/17/21 00:00
Date Received: 03/22/21 00:00

Lab Sample ID: 880-512-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1027	03/29/21 16:37	MR	XM
Total/NA	Analysis	8021B		1	1023	03/30/21 12:09	MR	XM
Total/NA	Prep	8015NM Prep			871	03/25/21 15:56	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/27/21 23:43	AJ	XM
Soluble	Leach	DI Leach			1018	03/29/21 14:37	CH	XM
Soluble	Analysis	300.0		1	1129	03/31/21 21:14	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: Hanlad A Battery #1

Job ID: 880-512-1

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: Hanlad A Battery #1

Job ID: 880-512-1

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: Hanlad A Battery #1

Job ID: 880-512-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-512-1	HZ1-1'	Solid	03/17/21 00:00	03/22/21 00:00	
880-512-2	HZ2-1'	Solid	03/17/21 00:00	03/22/21 00:00	
880-512-3	HZ3-1'	Solid	03/17/21 00:00	03/22/21 00:00	
880-512-4	HZ4-1'	Solid	03/17/21 00:00	03/22/21 00:00	

XENCO LABORATORIES

Houston TX (281
Midland TX (4
Hobbs, NM (57
Tampa, FL (813) 6

509-3334
794-1296
55-0900
51) 689-6701

880-512 Chain of Custody

Work Order No: _____

www.xenco.com Page _____ of _____

Project Manager	Lindsey Nevels	Bill to (if different)	
Company Name	Hungry Horse LLC	Company Name	Hanson Operating
Address	PO Box 1058	Address	P O Box 1515
City State ZIP	Hobbs, Nm 88241	City, State ZIP	Roswell NM 88202
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.	Hanlad A Battery #1	Turn Around	
Project Number		☑ Routine ☐ Rush	
Project Location		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		IR-8
Cooler Custody Seals	Yes No N/A	Correction Factor		+0.5
Sample Custody Seals	Yes No N/A	Temperature Reading		1.3
Total Containers		Corrected Temperature		1.8

ANALYSIS REQUEST

Pres. Code

Parameters: Chloride, TPH, BTEX

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chloride	TPH	BTEX
Hz1-1'		3/17/21		1'			X	X	X
Hz2-1'		3/17/21		1'			X	X	X
Hz3-1'		3/17/21		1'			X	X	X
Hz4-1'		3/17/21		1'			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	B. Wells		11:08 3/19	2			3/22/21
3				4			1050
5				6			

Revised Date 05012020 Rev 2020 1

4/1/2021

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Login Sample Receipt Checklist

Client: Hungry Horse LLC

Job Number: 880-512-1

Login Number: 512
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	

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ANALYTICAL REPORT

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

Laboratory Job ID: 880-513-1
Client Project/Site: Hanlad A Battery #1

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

Attn: Lindsey Nevels

Holly Taylor

Authorized for release by:
4/1/2021 5:14:43 PM

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

Table of Contents

Definitions/Glossary

Client: Hungry Horse LLC
Job ID: 880-513-1
Project/Site: Hanlad A Battery #1

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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: Hanlad A Battery #1

Job ID: 880-513-1

Job ID: 880-513-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-513-1

Receipt
The samples were received on 3/22/2021 12:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C

GC VOA
Method 8021B: Internal standard responses were outside of acceptance limits for the following samples: SP2-6' (880-513-2), SP3-5' (880-513-3) and SP5-6' (880-513-5). The sample(s) shows evidence of matrix interference.

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: Hanlad A Battery #1

Job ID: 880-513-1

Client Sample ID: SP1-6' — Lab Sample ID: 880-513-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total TPH	93.2		49.9		mg/Kg	1		8015B NM	Total/NA
Diesel Range Organics (Over C10-C28)	93.2		49.9		mg/Kg	1		8015B NM	Total/NA
Chloride	416		5.05		mg/Kg	1		300.0	Soluble

Client Sample ID: SP2-6' — Lab Sample ID: 880-513-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Chloride	270		4.98		mg/Kg	1		300.0	Soluble

Client Sample ID: SP3-5' — Lab Sample ID: 880-513-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Chloride	200		4.95		mg/Kg	1		300.0	Soluble

Client Sample ID: SP4-6' — Lab Sample ID: 880-513-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Chloride	533		4.95		mg/Kg	1		300.0	Soluble

Client Sample ID: SP5-6' — Lab Sample ID: 880-513-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total TPH	159		50.1		mg/Kg	1		8015B NM	Total/NA
Diesel Range Organics (Over C10-C28)	159		50.1		mg/Kg	1		8015B NM	Total/NA
Chloride	425		4.96		mg/Kg	1		300.0	Soluble

This Detection Summary does not include radiochemical test results.

Eurofins Xenco, Midland

Client Sample ID: SP1-6'

Lab Sample ID: 880-513-1

Date Collected: 03/17/21 00:00

Matrix: Solid

Date Received: 03/22/21 00:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/29/21 16:37	03/30/21 12:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/21 16:37	03/30/21 12:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/21 16:37	03/30/21 12:29	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/29/21 16:37	03/30/21 12:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/29/21 16:37	03/30/21 12:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/29/21 16:37	03/30/21 12:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/21 16:37	03/30/21 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*03/29/21 16:37*	*03/30/21 12:29*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*03/29/21 16:37*	*03/30/21 12:29*	*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	<49.9	U	49.9		mg/Kg		03/25/21 15:56	03/28/21 00:04	1
Total TPH	**93.2**		49.9		mg/Kg		03/25/21 15:56	03/28/21 00:04	1
Diesel Range Organics (Over C10-C28)	**93.2**		49.9		mg/Kg		03/25/21 15:56	03/28/21 00:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/25/21 15:56	03/28/21 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*03/25/21 15:56*	*03/28/21 00:04*	*1*
o-Terphenyl	*84*		*70 - 130*	*03/25/21 15:56*	*03/28/21 00:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**416**		5.05		mg/Kg			03/31/21 21:20	1

Client Sample ID: SP2-6'

Lab Sample ID: 880-513-2

Date Collected: 03/17/21 00:00

Matrix: Solid

Date Received: 03/22/21 00:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/29/21 16:37	03/30/21 14:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/21 16:37	03/30/21 14:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/21 16:37	03/30/21 14:19	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/29/21 16:37	03/30/21 14:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/21 16:37	03/30/21 14:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/29/21 16:37	03/30/21 14:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/21 16:37	03/30/21 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*03/29/21 16:37*	*03/30/21 14:19*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*03/29/21 16:37*	*03/30/21 14:19*	*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	<49.9	U	49.9		mg/Kg		03/25/21 15:56	03/28/21 00:24	1
Total TPH	<49.9	U	49.9		mg/Kg		03/25/21 15:56	03/28/21 00:24	1

Client Sample ID: SP2-6'

Lab Sample ID: 880-513-2

Date Collected: 03/17/21 00:00

Matrix: Solid

Date Received: 03/22/21 00:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/25/21 15:56	03/28/21 00:24	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/25/21 15:56	03/28/21 00:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*03/25/21 15:56*	*03/28/21 00:24*	*1*
o-Terphenyl	*92*		*70 - 130*	*03/25/21 15:56*	*03/28/21 00:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**270**		4.98		mg/Kg			03/31/21 21:25	1

Client Sample ID: SP3-5'

Lab Sample ID: 880-513-3

Date Collected: 03/17/21 00:00

Matrix: Solid

Date Received: 03/22/21 00:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/29/21 16:37	03/30/21 14:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/21 16:37	03/30/21 14:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/21 16:37	03/30/21 14:40	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/29/21 16:37	03/30/21 14:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/21 16:37	03/30/21 14:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/29/21 16:37	03/30/21 14:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/21 16:37	03/30/21 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*03/29/21 16:37*	*03/30/21 14:40*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*03/29/21 16:37*	*03/30/21 14:40*	*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	49.8		mg/Kg		03/25/21 15:56	03/28/21 00:45	1
Total TPH	<49.8	U	49.8		mg/Kg		03/25/21 15:56	03/28/21 00:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/25/21 15:56	03/28/21 00:45	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/25/21 15:56	03/28/21 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*03/25/21 15:56*	*03/28/21 00:45*	*1*
o-Terphenyl	*97*		*70 - 130*	*03/25/21 15:56*	*03/28/21 00:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		4.95		mg/Kg			03/31/21 21:30	1

Client Sample ID: SP4-6'

Lab Sample ID: 880-513-4

Date Collected: 03/17/21 00:00

Matrix: Solid

Date Received: 03/22/21 00:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/29/21 16:37	03/30/21 15:00	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/29/21 16:37	03/30/21 15:00	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/29/21 16:37	03/30/21 15:00	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		03/29/21 16:37	03/30/21 15:00	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/29/21 16:37	03/30/21 15:00	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/29/21 16:37	03/30/21 15:00	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/29/21 16:37	03/30/21 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*03/29/21 16:37*	*03/30/21 15:00*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/29/21 16:37*	*03/30/21 15:00*	*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	<49.9	U	49.9		mg/Kg		03/25/21 15:56	03/28/21 01:07	1
Total TPH	<49.9	U	49.9		mg/Kg		03/25/21 15:56	03/28/21 01:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/25/21 15:56	03/28/21 01:07	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/25/21 15:56	03/28/21 01:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*03/25/21 15:56*	*03/28/21 01:07*	*1*
o-Terphenyl	*91*		*70 - 130*	*03/25/21 15:56*	*03/28/21 01:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**533**		4.95		mg/Kg			03/31/21 21:46	1

Client Sample ID: SP5-6'

Lab Sample ID: 880-513-5

Date Collected: 03/17/21 00:00

Matrix: Solid

Date Received: 03/22/21 00:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/29/21 16:37	03/30/21 15:21	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/29/21 16:37	03/30/21 15:21	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/29/21 16:37	03/30/21 15:21	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		03/29/21 16:37	03/30/21 15:21	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/29/21 16:37	03/30/21 15:21	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/29/21 16:37	03/30/21 15:21	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/29/21 16:37	03/30/21 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*03/29/21 16:37*	*03/30/21 15:21*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*03/29/21 16:37*	*03/30/21 15:21*	*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	<50.1	U	50.1		mg/Kg		03/25/21 15:56	03/28/21 01:27	1
Total TPH	**159**		50.1		mg/Kg		03/25/21 15:56	03/28/21 01:27	1

Client: Hungry Horse LLC
Project/Site: Hanlad A Battery #1

Job ID: 880-513-1

Client Sample ID: SP5-6'
Date Collected: 03/17/21 00:00
Date Received: 03/22/21 00:00

Lab Sample ID: 880-513-5
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	159		50.1		mg/Kg		03/25/21 15:56	03/28/21 01:27	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/25/21 15:56	03/28/21 01:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*03/25/21 15:56*	*03/28/21 01:27*	*1*
o-Terphenyl	*84*		*70 - 130*	*03/25/21 15:56*	*03/28/21 01:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	425		4.96		mg/Kg			03/31/21 21:52	1

Surrogate Summary

Client: Hungry Horse LLC
Project/Site: Hanlad A Battery #1

Job ID: 880-513-1

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)
880-513-1	SP1-6'	115	103
880-513-2	SP2-6'	132 S1+	94
880-513-3	SP3-5'	124	94
880-513-4	SP4-6'	110	101
880-513-5	SP5-6'	117	97

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)
880-512-A-1-B MS	Matrix Spike	62 S1-	55 S1-
880-512-A-1-C MSD	Matrix Spike Duplicate	97	89
880-513-1	SP1-6'	82	84
880-513-2	SP2-6'	89	92
880-513-3	SP3-5'	98	97
880-513-4	SP4-6'	94	91
880-513-5	SP5-6'	86	84
LCS 880-871/2-A	Lab Control Sample	92	87
LCSD 880-871/3-A	Lab Control Sample Dup	92	85
MB 880-871/1-A	Method Blank	94	95

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-871/1-A
Matrix: Solid
Analysis Batch: 939

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 871

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		03/25/21 15:56	03/27/21 20:55	1
Total TPH	<50.0	U	50.0		mg/Kg		03/25/21 15:56	03/27/21 20:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/25/21 15:56	03/27/21 20:55	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/25/21 15:56	03/27/21 20:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*03/25/21 15:56*	*03/27/21 20:55*	*1*
o-Terphenyl	*95*		*70 - 130*	*03/25/21 15:56*	*03/27/21 20:55*	*1*

Lab Sample ID: LCS 880-871/2-A
Matrix: Solid
Analysis Batch: 939

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 871

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	983.9		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	864.3		mg/Kg		86	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

Lab Sample ID: LCSD 880-871/3-A
Matrix: Solid
Analysis Batch: 939

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 871

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	992.6		mg/Kg		99	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	848.6		mg/Kg		85	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

Lab Sample ID: 880-512-A-1-B MS
Matrix: Solid
Analysis Batch: 939

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 871

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	999	751.8		mg/Kg		74	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	999	622.1	F1	mg/Kg		62	70 - 130		

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-512-A-1-B MS
Matrix: Solid
Analysis Batch: 939

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 871

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	62	S1-	70 - 130
o-Terphenyl	55	S1-	70 - 130

Lab Sample ID: 880-512-A-1-C MSD
Matrix: Solid
Analysis Batch: 939

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 871

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	<49.9	U F2	997	1155	F2	mg/Kg		114	70 - 130	42	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	997	998.1	F2	mg/Kg		100	70 - 130	46	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	89		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1018/1-A
Matrix: Solid
Analysis Batch: 1129

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			03/31/21 20:43	1

Lab Sample ID: LCS 880-1018/2-A
Matrix: Solid
Analysis Batch: 1129

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	249.5		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-1018/3-A
Matrix: Solid
Analysis Batch: 1129

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	246.7		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 880-512-A-3-C MS
Matrix: Solid
Analysis Batch: 1129

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	39.2		249	279.8		mg/Kg		97	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-512-A-3-D MSD
Matrix: Solid
Analysis Batch: 1129

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	39.2		249	280.6		mg/Kg		97	90 - 110	0	20

GC VOA

Analysis Batch: 1023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-513-1	SP1-6'	Total/NA	Solid	8021B	1027
880-513-2	SP2-6'	Total/NA	Solid	8021B	1027
880-513-3	SP3-5'	Total/NA	Solid	8021B	1027
880-513-4	SP4-6'	Total/NA	Solid	8021B	1027
880-513-5	SP5-6'	Total/NA	Solid	8021B	1027

Prep Batch: 1027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-513-1	SP1-6'	Total/NA	Solid	5035	
880-513-2	SP2-6'	Total/NA	Solid	5035	
880-513-3	SP3-5'	Total/NA	Solid	5035	
880-513-4	SP4-6'	Total/NA	Solid	5035	
880-513-5	SP5-6'	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-513-1	SP1-6'	Total/NA	Solid	8015NM Prep	
880-513-2	SP2-6'	Total/NA	Solid	8015NM Prep	
880-513-3	SP3-5'	Total/NA	Solid	8015NM Prep	
880-513-4	SP4-6'	Total/NA	Solid	8015NM Prep	
880-513-5	SP5-6'	Total/NA	Solid	8015NM Prep	
MB 880-871/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-871/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-871/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-512-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-512-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-513-1	SP1-6'	Total/NA	Solid	8015B NM	871
880-513-2	SP2-6'	Total/NA	Solid	8015B NM	871
880-513-3	SP3-5'	Total/NA	Solid	8015B NM	871
880-513-4	SP4-6'	Total/NA	Solid	8015B NM	871
880-513-5	SP5-6'	Total/NA	Solid	8015B NM	871
MB 880-871/1-A	Method Blank	Total/NA	Solid	8015B NM	871
LCS 880-871/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	871
LCSD 880-871/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	871
880-512-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	871
880-512-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	871

HPLC/IC

Leach Batch: 1018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-513-1	SP1-6'	Soluble	Solid	DI Leach	
880-513-2	SP2-6'	Soluble	Solid	DI Leach	
880-513-3	SP3-5'	Soluble	Solid	DI Leach	
880-513-4	SP4-6'	Soluble	Solid	DI Leach	
880-513-5	SP5-6'	Soluble	Solid	DI Leach	
MB 880-1018/1-A	Method Blank	Soluble	Solid	DI Leach	

HPLC/IC (Continued)

Leach Batch: 1018 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-1018/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1018/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-512-A-3-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-512-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 1129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-513-1	SP1-6'	Soluble	Solid	300.0	1018
880-513-2	SP2-6'	Soluble	Solid	300.0	1018
880-513-3	SP3-5'	Soluble	Solid	300.0	1018
880-513-4	SP4-6'	Soluble	Solid	300.0	1018
880-513-5	SP5-6'	Soluble	Solid	300.0	1018
MB 880-1018/1-A	Method Blank	Soluble	Solid	300.0	1018
LCS 880-1018/2-A	Lab Control Sample	Soluble	Solid	300.0	1018
LCSD 880-1018/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1018
880-512-A-3-C MS	Matrix Spike	Soluble	Solid	300.0	1018
880-512-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	1018

Lab Chronicle

Client: Hungry Horse LLC
Project/Site: Hanlad A Battery #1

Job ID: 880-513-1

Client Sample ID: SP1-6'

Lab Sample ID: 880-513-1

Date Collected: 03/17/21 00:00
Matrix: Solid
Date Received: 03/22/21 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1027	03/29/21 16:37	MR	XM
Total/NA	Analysis	8021B		1	1023	03/30/21 12:29	MR	XM
Total/NA	Prep	8015NM Prep			871	03/25/21 15:56	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/28/21 00:04	AJ	XM
Soluble	Leach	DI Leach			1018	03/29/21 14:37	CH	XM
Soluble	Analysis	300.0		1	1129	03/31/21 21:20	WP	XM

Client Sample ID: SP2-6'

Lab Sample ID: 880-513-2

Date Collected: 03/17/21 00:00
Matrix: Solid
Date Received: 03/22/21 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1027	03/29/21 16:37	MR	XM
Total/NA	Analysis	8021B		1	1023	03/30/21 14:19	MR	XM
Total/NA	Prep	8015NM Prep			871	03/25/21 15:56	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/28/21 00:24	AJ	XM
Soluble	Leach	DI Leach			1018	03/29/21 14:37	CH	XM
Soluble	Analysis	300.0		1	1129	03/31/21 21:25	WP	XM

Client Sample ID: SP3-5'

Lab Sample ID: 880-513-3

Date Collected: 03/17/21 00:00
Matrix: Solid
Date Received: 03/22/21 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1027	03/29/21 16:37	MR	XM
Total/NA	Analysis	8021B		1	1023	03/30/21 14:40	MR	XM
Total/NA	Prep	8015NM Prep			871	03/25/21 15:56	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/28/21 00:45	AJ	XM
Soluble	Leach	DI Leach			1018	03/29/21 14:37	CH	XM
Soluble	Analysis	300.0		1	1129	03/31/21 21:30	WP	XM

Client Sample ID: SP4-6'

Lab Sample ID: 880-513-4

Date Collected: 03/17/21 00:00
Matrix: Solid
Date Received: 03/22/21 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1027	03/29/21 16:37	MR	XM
Total/NA	Analysis	8021B		1	1023	03/30/21 15:00	MR	XM
Total/NA	Prep	8015NM Prep			871	03/25/21 15:56	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/28/21 01:07	AJ	XM
Soluble	Leach	DI Leach			1018	03/29/21 14:37	CH	XM
Soluble	Analysis	300.0		1	1129	03/31/21 21:46	WP	XM

Lab Chronicle

Client: Hungry Horse LLC
Project/Site: Hanlad A Battery #1

Job ID: 880-513-1

Client Sample ID: SP5-6'

Date Collected: 03/17/21 00:00
Date Received: 03/22/21 00:00

Lab Sample ID: 880-513-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1027	03/29/21 16:37	MR	XM
Total/NA	Analysis	8021B		1	1023	03/30/21 15:21	MR	XM
Total/NA	Prep	8015NM Prep			871	03/25/21 15:56	DM	XM
Total/NA	Analysis	8015B NM		1	939	03/28/21 01:27	AJ	XM
Soluble	Leach	DI Leach			1018	03/29/21 14:37	CH	XM
Soluble	Analysis	300.0		1	1129	03/31/21 21:52	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
Job ID: 880-513-1
Project/Site: Hanlad A Battery #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: Hanlad A Battery #1

Job ID: 880-513-1

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: Hanlad A Battery #1

Job ID: 880-513-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-513-1	SP1-6'	Solid	03/17/21 00:00	03/22/21 00:00	
880-513-2	SP2-6'	Solid	03/17/21 00:00	03/22/21 00:00	
880-513-3	SP3-5'	Solid	03/17/21 00:00	03/22/21 00:00	
880-513-4	SP4-6'	Solid	03/17/21 00:00	03/22/21 00:00	
880-513-5	SP5-6'	Solid	03/17/21 00:00	03/22/21 00:00	

Chain of Custody

XENCO LABORATORIES

Houston
Midlan
Hobbs
Tampa F

880-513 Chain of Custody

X (210) 509-3334
X (806) 794-1296
Z (480) 355-0900
h, FL (561) 689-6701

Work Order No: _____

www xenco com Page _____ of _____

Project Manager	Lindsey Nevels	Bill to (if different)	
Company Name	Hungry Horse LLC	Company Name.	Hanson Operating
Address	PO Box 1058	Address.	P O Box 1515
City State ZIP	Hobbs, Nm 88241	City, State ZIP	Roswell NM 88202
Phone	432 241-2480	Email	pm@hungry-horse com

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	Hanlad A Battery #1	Turn Around	☑ Routine ☐ Rush
Project Number		Due Date	
Project Location		TAT starts the day received by the lab if received by 4 30pm	
Sampler's Name.	Bradley Wells		
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	1.3		
Total Containers		Corrected Temperature	1.8		

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	Chloride	TPH	BTEX	Sample Comments
Sp1-6'		3/17/21		6'			X	X	X	
Sp2-6'		3/17/21		6'			X	X	X	
Sp3-5'		3/17/21		5'			X	X	X	
Sp4-6'		3/17/21		6'			X	X	X	
Sp5-6'		3/17/21		6'			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	B. Wells	NR	1108 3/19	2	NR	BW	3/22/21
3				4			1030
5				6			

Revised Date 05012020 Rev 2020.1

Login Sample Receipt Checklist

Client: Hungry Horse LLC

Job Number: 880-513-1

Login Number: 513

List Source: Eurofins Midland

List Number: 1

Creator: Teel, Brianna

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	

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ANALYTICAL REPORT

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

Laboratory Job ID: 880-1969-1
Client Project/Site: State A 1 Battery

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

Attn: Lindsey Nevels

Holly Taylor

Authorized for release by:
5/14/2021 9:28:44 AM

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

Table of Contents

Definitions/Glossary

Client: Hungry Horse LLC
Project/Site: State A 1 Battery

Job ID: 880-1969-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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: State A 1 Battery

Job ID: 880-1969-1

Job ID: 880-1969-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-1969-1

Comments
No additional comments.

Receipt
The samples were received on 5/7/2021 1:14 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.8º C.

Receipt Exceptions

The following samples were received at the laboratory without a sample collection time documented on the chain of custody: BH1 (880-1969-1), BH2 (880-1969-2), BH3 (880-1969-3), BH4 (880-1969-4), BH5 (880-1969-5), BH6 (880-1969-6), BH7 (880-1969-7), BH8 (880-1969-8), BH9 (880-1969-9), BH10 (880-1969-10), BH11 (880-1969-11), BH12 (880-1969-12), BH13 (880-1969-13), BH14 (880-1969-14) and BH15 (880-1969-15).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: BH2 (880-1969-2) and BH4 (880-1969-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

Client Sample ID: BH1

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14
Sample Depth: 7.5

Lab Sample ID: 880-1969-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:20	05/07/21 16:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:20	05/07/21 16:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:20	05/07/21 16:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/07/21 14:20	05/07/21 16:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:20	05/07/21 16:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/07/21 14:20	05/07/21 16:56	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/07/21 14:20	05/07/21 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*05/07/21 14:20*	*05/07/21 16:56*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/07/21 14:20*	*05/07/21 16:56*	*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	**841**	**F1**	49.8		mg/Kg		05/07/21 15:56	05/08/21 16:51	1
Diesel Range Organics (Over C10-C28)	**1240**	**F1**	49.8		mg/Kg		05/07/21 15:56	05/08/21 16:51	1
Oil Range Organics (Over C28-C36)	**135**		49.8		mg/Kg		05/07/21 15:56	05/08/21 16:51	1
Total TPH	**2220**	**F1 F2**	49.8		mg/Kg		05/07/21 15:56	05/08/21 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*05/07/21 15:56*	*05/08/21 16:51*	*1*
o-Terphenyl	*99*		*70 - 130*	*05/07/21 15:56*	*05/08/21 16:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51.3**		5.00		mg/Kg			05/10/21 18:24	1

Client Sample ID: BH2

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14
Sample Depth: 7.5

Lab Sample ID: 880-1969-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/07/21 14:20	05/07/21 17:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/07/21 14:20	05/07/21 17:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/07/21 14:20	05/07/21 17:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/07/21 14:20	05/07/21 17:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/07/21 14:20	05/07/21 17:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/07/21 14:20	05/07/21 17:21	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/07/21 14:20	05/07/21 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*05/07/21 14:20*	*05/07/21 17:21*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*05/07/21 14:20*	*05/07/21 17:21*	*1*

Client Sample ID: BH2

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14
Sample Depth: 7.5

Lab Sample ID: 880-1969-2

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 17:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 17:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 17:13	1
Total TPH	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*05/07/21 15:56*	*05/08/21 17:13*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*05/07/21 15:56*	*05/08/21 17:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**49.0**		4.96		mg/Kg			05/10/21 18:40	1

Client Sample ID: BH3

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14
Sample Depth: 7.5

Lab Sample ID: 880-1969-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:20	05/07/21 17:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:20	05/07/21 17:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:20	05/07/21 17:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/07/21 14:20	05/07/21 17:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:20	05/07/21 17:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/07/21 14:20	05/07/21 17:46	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/07/21 14:20	05/07/21 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*05/07/21 14:20*	*05/07/21 17:46*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/07/21 14:20*	*05/07/21 17:46*	*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	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 17:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 17:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 17:35	1
Total TPH	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*05/07/21 15:56*	*05/08/21 17:35*	*1*
o-Terphenyl	*112*		*70 - 130*	*05/07/21 15:56*	*05/08/21 17:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**47.2**		4.95		mg/Kg			05/10/21 18:46	1

Client Sample ID: BH4

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14
Sample Depth: 7.5

Lab Sample ID: 880-1969-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:20	05/07/21 18:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:20	05/07/21 18:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:20	05/07/21 18:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/07/21 14:20	05/07/21 18:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:20	05/07/21 18:11	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/07/21 14:20	05/07/21 18:11	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		05/07/21 14:20	05/07/21 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*05/07/21 14:20*	*05/07/21 18:11*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*05/07/21 14:20*	*05/07/21 18:11*	*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	49.8		mg/Kg		05/07/21 15:56	05/08/21 17:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/21 15:56	05/08/21 17:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/21 15:56	05/08/21 17:56	1
Total TPH	<49.8	U	49.8		mg/Kg		05/07/21 15:56	05/08/21 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*05/07/21 15:56*	*05/08/21 17:56*	*1*
o-Terphenyl	*116*		*70 - 130*	*05/07/21 15:56*	*05/08/21 17:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**50.8**		5.05		mg/Kg			05/10/21 18:51	1

Client Sample ID: BH5

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14
Sample Depth: 7.5

Lab Sample ID: 880-1969-5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		05/07/21 14:31	05/08/21 03:49	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		05/07/21 14:31	05/08/21 03:49	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		05/07/21 14:31	05/08/21 03:49	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		05/07/21 14:31	05/08/21 03:49	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		05/07/21 14:31	05/08/21 03:49	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		05/07/21 14:31	05/08/21 03:49	1
Total BTEX	<0.00399	U F1	0.00399		mg/Kg		05/07/21 14:31	05/08/21 03:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*05/07/21 14:31*	*05/08/21 03:49*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/07/21 14:31*	*05/08/21 03:49*	*1*

Client Sample ID: BH5

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14
Sample Depth: 7.5

Lab Sample ID: 880-1969-5
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 18:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 18:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 18:17	1
Total TPH	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*05/07/21 15:56*	*05/08/21 18:17*	*1*
o-Terphenyl	*121*		*70 - 130*	*05/07/21 15:56*	*05/08/21 18:17*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51.4**		4.98		mg/Kg			05/10/21 18:57	1

Client Sample ID: BH6

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14
Sample Depth: 7.5

Lab Sample ID: 880-1969-6
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/07/21 14:31	05/08/21 04:09	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/07/21 14:31	05/08/21 04:09	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/07/21 14:31	05/08/21 04:09	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/07/21 14:31	05/08/21 04:09	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/07/21 14:31	05/08/21 04:09	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/07/21 14:31	05/08/21 04:09	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		05/07/21 14:31	05/08/21 04:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*05/07/21 14:31*	*05/08/21 04:09*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/07/21 14:31*	*05/08/21 04:09*	*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	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 18:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 18:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 18:39	1
Total TPH	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*05/07/21 15:56*	*05/08/21 18:39*	*1*
o-Terphenyl	*109*		*70 - 130*	*05/07/21 15:56*	*05/08/21 18:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.6**		5.00		mg/Kg			05/10/21 19:13	1

Client Sample ID: BH7

Lab Sample ID: 880-1969-7

Date Collected: 05/07/21 00:00
Matrix: Solid
Date Received: 05/07/21 13:14
Sample Depth: 7.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/07/21 14:31	05/08/21 04:30	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/07/21 14:31	05/08/21 04:30	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/07/21 14:31	05/08/21 04:30	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/07/21 14:31	05/08/21 04:30	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/07/21 14:31	05/08/21 04:30	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/07/21 14:31	05/08/21 04:30	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		05/07/21 14:31	05/08/21 04:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*05/07/21 14:31*	*05/08/21 04:30*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*05/07/21 14:31*	*05/08/21 04:30*	*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	<50.0	U	50.0		mg/Kg		05/07/21 15:56	05/08/21 19:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/21 15:56	05/08/21 19:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/21 15:56	05/08/21 19:00	1
Total TPH	<50.0	U	50.0		mg/Kg		05/07/21 15:56	05/08/21 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*05/07/21 15:56*	*05/08/21 19:00*	*1*
o-Terphenyl	*117*		*70 - 130*	*05/07/21 15:56*	*05/08/21 19:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**59.0**		5.00		mg/Kg			05/10/21 19:18	1

Client Sample ID: BH8

Lab Sample ID: 880-1969-8

Date Collected: 05/07/21 00:00
Matrix: Solid
Date Received: 05/07/21 13:14
Sample Depth: 7.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 04:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 04:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 04:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/21 14:31	05/08/21 04:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 04:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/21 14:31	05/08/21 04:50	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/07/21 14:31	05/08/21 04:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*05/07/21 14:31*	*05/08/21 04:50*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/07/21 14:31*	*05/08/21 04:50*	*1*

Client Sample ID: BH8

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14
Sample Depth: 7.5

Lab Sample ID: 880-1969-8

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/21 15:56	05/08/21 19:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/21 15:56	05/08/21 19:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/21 15:56	05/08/21 19:22	1
Total TPH	<50.0	U	50.0		mg/Kg		05/07/21 15:56	05/08/21 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*05/07/21 15:56*	*05/08/21 19:22*	*1*
o-Terphenyl	*107*		*70 - 130*	*05/07/21 15:56*	*05/08/21 19:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**55.6**		5.02		mg/Kg			05/10/21 19:23	1

Client Sample ID: BH9

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14
Sample Depth: 7.5

Lab Sample ID: 880-1969-9

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/07/21 14:31	05/08/21 05:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/07/21 14:31	05/08/21 05:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/07/21 14:31	05/08/21 05:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/07/21 14:31	05/08/21 05:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/07/21 14:31	05/08/21 05:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/07/21 14:31	05/08/21 05:11	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/07/21 14:31	05/08/21 05:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*05/07/21 14:31*	*05/08/21 05:11*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/07/21 14:31*	*05/08/21 05:11*	*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	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 19:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 19:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 19:43	1
Total TPH	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*05/07/21 15:56*	*05/08/21 19:43*	*1*
o-Terphenyl	*108*		*70 - 130*	*05/07/21 15:56*	*05/08/21 19:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**46.5**		5.03		mg/Kg			05/10/21 19:29	1

Client Sample ID: BH10

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14
Sample Depth: 7.5

Lab Sample ID: 880-1969-10
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 05:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 05:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 05:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/07/21 14:31	05/08/21 05:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 05:31	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/07/21 14:31	05/08/21 05:31	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		05/07/21 14:31	05/08/21 05:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/07/21 14:31*	*05/08/21 05:31*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*05/07/21 14:31*	*05/08/21 05:31*	*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	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 20:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 20:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 20:05	1
Total TPH	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*05/07/21 15:56*	*05/08/21 20:05*	*1*
o-Terphenyl	*103*		*70 - 130*	*05/07/21 15:56*	*05/08/21 20:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.6**		5.00		mg/Kg			05/10/21 19:34	1

Client Sample ID: BH11

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14
Sample Depth: 7.5

Lab Sample ID: 880-1969-11
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 05:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 05:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 05:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/07/21 14:31	05/08/21 05:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 05:52	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/07/21 14:31	05/08/21 05:52	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/07/21 14:31	05/08/21 05:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*05/07/21 14:31*	*05/08/21 05:52*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*05/07/21 14:31*	*05/08/21 05:52*	*1*

Client Sample ID: BH11

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14
Sample Depth: 7.5

Lab Sample ID: 880-1969-11
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/21 15:56	05/08/21 20:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/21 15:56	05/08/21 20:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/21 15:56	05/08/21 20:47	1
Total TPH	<50.0	U	50.0		mg/Kg		05/07/21 15:56	05/08/21 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*05/07/21 15:56*	*05/08/21 20:47*	*1*
o-Terphenyl	*116*		*70 - 130*	*05/07/21 15:56*	*05/08/21 20:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**46.5**		4.95		mg/Kg			05/10/21 19:40	1

Client Sample ID: BH12

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14
Sample Depth: 7.5

Lab Sample ID: 880-1969-12
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		05/07/21 14:31	05/08/21 06:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/07/21 14:31	05/08/21 06:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/07/21 14:31	05/08/21 06:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/07/21 14:31	05/08/21 06:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/07/21 14:31	05/08/21 06:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/07/21 14:31	05/08/21 06:12	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		05/07/21 14:31	05/08/21 06:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*05/07/21 14:31*	*05/08/21 06:12*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/07/21 14:31*	*05/08/21 06:12*	*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	<0.500	U	0.500		mg/Kg		05/07/21 15:56	05/08/21 21:08	1
Diesel Range Organics (Over C10-C28)	<0.500	U	0.500		mg/Kg		05/07/21 15:56	05/08/21 21:08	1
Oil Range Organics (Over C28-C36)	<0.500	U	0.500		mg/Kg		05/07/21 15:56	05/08/21 21:08	1
Total TPH	<0.500	U	0.500		mg/Kg		05/07/21 15:56	05/08/21 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*05/07/21 15:56*	*05/08/21 21:08*	*1*
o-Terphenyl	*108*		*70 - 130*	*05/07/21 15:56*	*05/08/21 21:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.62**		5.03		mg/Kg			05/10/21 19:56	1

Client Sample ID: BH13

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14
Sample Depth: 7.5

Lab Sample ID: 880-1969-13
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		05/07/21 14:31	05/08/21 06:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/07/21 14:31	05/08/21 06:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/07/21 14:31	05/08/21 06:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/07/21 14:31	05/08/21 06:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/07/21 14:31	05/08/21 06:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/07/21 14:31	05/08/21 06:32	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		05/07/21 14:31	05/08/21 06:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*05/07/21 14:31*	*05/08/21 06:32*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*05/07/21 14:31*	*05/08/21 06:32*	*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	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 21:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 21:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 21:30	1
Total TPH	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*05/07/21 15:56*	*05/08/21 21:30*	*1*
o-Terphenyl	*112*		*70 - 130*	*05/07/21 15:56*	*05/08/21 21:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.57**		5.00		mg/Kg			05/10/21 20:01	1

Client Sample ID: BH14

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14
Sample Depth: 7.5

Lab Sample ID: 880-1969-14
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/07/21 14:31	05/08/21 06:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/07/21 14:31	05/08/21 06:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/07/21 14:31	05/08/21 06:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/07/21 14:31	05/08/21 06:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/07/21 14:31	05/08/21 06:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/07/21 14:31	05/08/21 06:53	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/07/21 14:31	05/08/21 06:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*05/07/21 14:31*	*05/08/21 06:53*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*05/07/21 14:31*	*05/08/21 06:53*	*1*

Client Sample ID: BH14

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14
Sample Depth: 7.5

Lab Sample ID: 880-1969-14
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/21 15:56	05/08/21 21:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/21 15:56	05/08/21 21:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/21 15:56	05/08/21 21:51	1
Total TPH	<50.0	U	50.0		mg/Kg		05/07/21 15:56	05/08/21 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*05/07/21 15:56*	*05/08/21 21:51*	*1*
o-Terphenyl	*113*		*70 - 130*	*05/07/21 15:56*	*05/08/21 21:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.29**		4.97		mg/Kg			05/10/21 20:17	1

Client Sample ID: BH15

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14
Sample Depth: 7.5

Lab Sample ID: 880-1969-15
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/07/21 14:31	05/08/21 08:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/07/21 14:31	05/08/21 08:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/07/21 14:31	05/08/21 08:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/07/21 14:31	05/08/21 08:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/07/21 14:31	05/08/21 08:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/07/21 14:31	05/08/21 08:14	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/07/21 14:31	05/08/21 08:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*05/07/21 14:31*	*05/08/21 08:14*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/07/21 14:31*	*05/08/21 08:14*	*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	<50.0	U	50.0		mg/Kg		05/07/21 15:56	05/08/21 22:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/21 15:56	05/08/21 22:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/21 15:56	05/08/21 22:12	1
Total TPH	<50.0	U	50.0		mg/Kg		05/07/21 15:56	05/08/21 22:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*05/07/21 15:56*	*05/08/21 22:12*	*1*
o-Terphenyl	*117*		*70 - 130*	*05/07/21 15:56*	*05/08/21 22:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.37**		5.00		mg/Kg			05/10/21 20:23	1

Surrogate Summary

Client: Hungry Horse LLC
Project/Site: State A 1 Battery

Job ID: 880-1969-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-1969-1	BH1	83	95
880-1969-2	BH2	67 S1-	86
880-1969-3	BH3	83	97
880-1969-4	BH4	66 S1-	81
880-1969-5	BH5	96	94
880-1969-5 MS	BH5	110	98
880-1969-5 MSD	BH5	112	101
880-1969-6	BH6	95	94
880-1969-7	BH7	97	92
880-1969-8	BH8	98	94
880-1969-9	BH9	96	98
880-1969-10	BH10	91	93
880-1969-11	BH11	92	92
880-1969-12	BH12	94	95
880-1969-13	BH13	97	91
880-1969-14	BH14	96	96
880-1969-15	BH15	94	95
890-640-A-28-A MS	Matrix Spike	86	103
890-640-A-28-B MSD	Matrix Spike Duplicate	84	108
LCS 880-2837/1-A	Lab Control Sample	85	106
LCS 880-2845/1-A	Lab Control Sample	120	103
LCSD 880-2837/2-A	Lab Control Sample Dup	68 S1-	100
LCSD 880-2845/2-A	Lab Control Sample Dup	114	100
MB 880-2829/5-A	Method Blank	84	94
MB 880-2837/5-A	Method Blank	55 S1-	83
MB 880-2845/5-A	Method Blank	77	92

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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-1969-1	BH1	94	99
880-1969-1 MS	BH1	93	101
880-1969-1 MSD	BH1	97	100
880-1969-2	BH2	108	132 S1+
880-1969-3	BH3	93	112
880-1969-4	BH4	94	116
880-1969-5	BH5	95	121
880-1969-6	BH6	95	109
880-1969-7	BH7	97	117
880-1969-8	BH8	97	107
880-1969-9	BH9	100	108
880-1969-10	BH10	94	103
880-1969-11	BH11	105	116

Surrogate Summary

Client: Hungry Horse LLC
Job ID: 880-1969-1
Project/Site: State A 1 Battery

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
880-1969-12	BH12	99	108								
880-1969-13	BH13	100	112								
880-1969-14	BH14	101	113								
880-1969-15	BH15	102	117								
LCS 880-2849/2-A	Lab Control Sample	98	103								
LCSD 880-2849/3-A	Lab Control Sample Dup	105	112								
MB 880-2849/1-A	Method Blank	88	107								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-2829/5-A
Matrix: Solid
Analysis Batch: 2835

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2829

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/07/21 11:08	05/07/21 16:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*05/07/21 11:08*	*05/07/21 16:37*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/07/21 11:08*	*05/07/21 16:37*	*1*

Lab Sample ID: MB 880-2837/5-A
Matrix: Solid
Analysis Batch: 2787

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2837

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 13:18	05/07/21 15:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 13:18	05/07/21 15:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 13:18	05/07/21 15:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/21 13:18	05/07/21 15:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 13:18	05/07/21 15:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/21 13:18	05/07/21 15:40	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/07/21 13:18	05/07/21 15:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*55*	*S1-*	*70 - 130*	*05/07/21 13:18*	*05/07/21 15:40*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*05/07/21 13:18*	*05/07/21 15:40*	*1*

Lab Sample ID: LCS 880-2837/1-A
Matrix: Solid
Analysis Batch: 2787

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2837

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1058		mg/Kg		106	70 - 130		
Toluene			0.100	0.1048		mg/Kg		105	70 - 130		
Ethylbenzene			0.100	0.1023		mg/Kg		102	70 - 130		
m-Xylene & p-Xylene			0.200	0.2161		mg/Kg		108	70 - 130		
o-Xylene			0.100	0.08744		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-2837/2-A
Matrix: Solid
Analysis Batch: 2787

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2837

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08753		mg/Kg		88	70 - 130	19	35
Toluene			0.100	0.09078		mg/Kg		91	70 - 130	14	35
Ethylbenzene			0.100	0.08814		mg/Kg		88	70 - 130	15	35
m-Xylene & p-Xylene			0.200	0.1877		mg/Kg		94	70 - 130	14	35
o-Xylene			0.100	0.07720		mg/Kg		77	70 - 130	12	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*68*	*S1-*	*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-640-A-28-A MS
Matrix: Solid
Analysis Batch: 2787

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 2837

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00200	U	0.0998	0.07565		mg/Kg		76	70 - 130		
Toluene	<0.00200	U F1	0.0998	0.06977		mg/Kg		70	70 - 130		
Ethylbenzene	<0.00200	U	0.0998	0.07576		mg/Kg		76	70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1580		mg/Kg		79	70 - 130		
o-Xylene	<0.00200	U F1	0.0998	0.06631	F1	mg/Kg		66	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-640-A-28-B MSD
Matrix: Solid
Analysis Batch: 2787

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 2837

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.101	0.07147		mg/Kg		71	70 - 130	6	35
Toluene	<0.00200	U F1	0.101	0.06037	F1	mg/Kg		60	70 - 130	14	35
Ethylbenzene	<0.00200	U	0.101	0.07238		mg/Kg		72	70 - 130	5	35
m-Xylene & p-Xylene	<0.00399	U	0.202	0.1538		mg/Kg		76	70 - 130	3	35
o-Xylene	<0.00200	U F1	0.101	0.06477	F1	mg/Kg		64	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: MB 880-2845/5-A
Matrix: Solid
Analysis Batch: 2835

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2845

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 03:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 03:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 03:27	1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-2845/5-A
Matrix: Solid
Analysis Batch: 2835

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2845

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/21 14:31	05/08/21 03:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 03:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/21 14:31	05/08/21 03:27	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/07/21 14:31	05/08/21 03:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*05/07/21 14:31*	*05/08/21 03:27*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*05/07/21 14:31*	*05/08/21 03:27*	*1*

Lab Sample ID: LCS 880-2845/1-A
Matrix: Solid
Analysis Batch: 2835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2845

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1034		mg/Kg		103	70 - 130		
Toluene			0.100	0.1026		mg/Kg		103	70 - 130		
Ethylbenzene			0.100	0.1079		mg/Kg		108	70 - 130		
m-Xylene & p-Xylene			0.200	0.2317		mg/Kg		116	70 - 130		
o-Xylene			0.100	0.1185		mg/Kg		118	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-2845/2-A
Matrix: Solid
Analysis Batch: 2835

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2845

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09824		mg/Kg		98	70 - 130	5	35
Toluene			0.100	0.09620		mg/Kg		96	70 - 130	6	35
Ethylbenzene			0.100	0.1009		mg/Kg		101	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.2155		mg/Kg		108	70 - 130	7	35
o-Xylene			0.100	0.1105		mg/Kg		111	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-1969-5 MS
Matrix: Solid
Analysis Batch: 2835

Client Sample ID: BH5
Prep Type: Total/NA
Prep Batch: 2845

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00200	U F1	0.0996	0.04724	F1	mg/Kg		47	70 - 130		
Toluene	<0.00200	U F1	0.0996	0.04876	F1	mg/Kg		49	70 - 130		
Ethylbenzene	<0.00200	U F1	0.0996	0.05154	F1	mg/Kg		52	70 - 130		
m-Xylene & p-Xylene	<0.00399	U F1	0.199	0.1048	F1	mg/Kg		53	70 - 130		

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-1969-5 MS
Matrix: Solid
Analysis Batch: 2835

Client Sample ID: BH5
Prep Type: Total/NA
Prep Batch: 2845

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	<0.00200	U F1	0.0996	0.05538	F1	mg/Kg		56	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-1969-5 MSD
Matrix: Solid
Analysis Batch: 2835

Client Sample ID: BH5
Prep Type: Total/NA
Prep Batch: 2845

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0996	0.05960	F1	mg/Kg		60	70 - 130	23	35
Toluene	<0.00200	U F1	0.0996	0.05910	F1	mg/Kg		59	70 - 130	19	35
Ethylbenzene	<0.00200	U F1	0.0996	0.06301	F1	mg/Kg		63	70 - 130	20	35
m-Xylene & p-Xylene	<0.00399	U F1	0.199	0.1290	F1	mg/Kg		65	70 - 130	21	35
o-Xylene	<0.00200	U F1	0.0996	0.06720	F1	mg/Kg		67	70 - 130	19	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-2849/1-A
Matrix: Solid
Analysis Batch: 2867

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2849

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		05/07/21 15:56	05/08/21 15:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/07/21 15:56	05/08/21 15:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/07/21 15:56	05/08/21 15:04	1
Total TPH	<50.0	U	50.0	mg/Kg		05/07/21 15:56	05/08/21 15:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*05/07/21 15:56*	*05/08/21 15:04*	*1*
o-Terphenyl	*107*		*70 - 130*	*05/07/21 15:56*	*05/08/21 15:04*	*1*

Lab Sample ID: LCS 880-2849/2-A
Matrix: Solid
Analysis Batch: 2867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	851.5		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1165		mg/Kg		116	70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-2849/2-A
Matrix: Solid
Analysis Batch: 2867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2849

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: LCSD 880-2849/3-A
Matrix: Solid
Analysis Batch: 2867

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2849

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	888.8		mg/Kg		89	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1257		mg/Kg		126	70 - 130	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: 880-1969-1 MS
Matrix: Solid
Analysis Batch: 2867

Client Sample ID: BH1
Prep Type: Total/NA
Prep Batch: 2849

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	841	F1	996	<49.8	U F1	mg/Kg		0	70 - 130
Diesel Range Organics (Over C10-C28)	1240	F1	996	<49.8	U F1	mg/Kg		0	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: 880-1969-1 MSD
Matrix: Solid
Analysis Batch: 2867

Client Sample ID: BH1
Prep Type: Total/NA
Prep Batch: 2849

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	841	F1	996	857.2	F1	mg/Kg		2	70 - 130	NC	20
Diesel Range Organics (Over C10-C28)	1240	F1	996	1241	F1	mg/Kg		0.6	70 - 130	NC	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	100		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2850/1-A
Matrix: Solid
Analysis Batch: 2902

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			05/10/21 18:08	1

Lab Sample ID: LCS 880-2850/2-A
Matrix: Solid
Analysis Batch: 2902

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	233.0		mg/Kg		93	90 - 110		

Lab Sample ID: LCSD 880-2850/3-A
Matrix: Solid
Analysis Batch: 2902

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	238.0		mg/Kg		95	90 - 110	2	20

Lab Sample ID: 880-1969-1 MS
Matrix: Solid
Analysis Batch: 2902

Client Sample ID: BH1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	51.3		250	289.4		mg/Kg		95	90 - 110		

Lab Sample ID: 880-1969-1 MSD
Matrix: Solid
Analysis Batch: 2902

Client Sample ID: BH1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	51.3		250	291.5		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 880-1969-11 MS
Matrix: Solid
Analysis Batch: 2902

Client Sample ID: BH11
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	46.5		248	279.4		mg/Kg		94	90 - 110		

Lab Sample ID: 880-1969-11 MSD
Matrix: Solid
Analysis Batch: 2902

Client Sample ID: BH11
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	46.5		248	276.5		mg/Kg		93	90 - 110	1	20

GC VOA

Analysis Batch: 2787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1969-1	BH1	Total/NA	Solid	8021B	2837
880-1969-2	BH2	Total/NA	Solid	8021B	2837
880-1969-3	BH3	Total/NA	Solid	8021B	2837
880-1969-4	BH4	Total/NA	Solid	8021B	2837
MB 880-2837/5-A	Method Blank	Total/NA	Solid	8021B	2837
LCS 880-2837/1-A	Lab Control Sample	Total/NA	Solid	8021B	2837
LCSD 880-2837/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2837
890-640-A-28-A MS	Matrix Spike	Total/NA	Solid	8021B	2837
890-640-A-28-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	2837

Prep Batch: 2829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-2829/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 2835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1969-5	BH5	Total/NA	Solid	8021B	2845
880-1969-6	BH6	Total/NA	Solid	8021B	2845
880-1969-7	BH7	Total/NA	Solid	8021B	2845
880-1969-8	BH8	Total/NA	Solid	8021B	2845
880-1969-9	BH9	Total/NA	Solid	8021B	2845
880-1969-10	BH10	Total/NA	Solid	8021B	2845
880-1969-11	BH11	Total/NA	Solid	8021B	2845
880-1969-12	BH12	Total/NA	Solid	8021B	2845
880-1969-13	BH13	Total/NA	Solid	8021B	2845
880-1969-14	BH14	Total/NA	Solid	8021B	2845
880-1969-15	BH15	Total/NA	Solid	8021B	2845
MB 880-2829/5-A	Method Blank	Total/NA	Solid	8021B	2829
MB 880-2845/5-A	Method Blank	Total/NA	Solid	8021B	2845
LCS 880-2845/1-A	Lab Control Sample	Total/NA	Solid	8021B	2845
LCSD 880-2845/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2845
880-1969-5 MS	BH5	Total/NA	Solid	8021B	2845
880-1969-5 MSD	BH5	Total/NA	Solid	8021B	2845

Prep Batch: 2837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1969-1	BH1	Total/NA	Solid	5035	
880-1969-2	BH2	Total/NA	Solid	5035	
880-1969-3	BH3	Total/NA	Solid	5035	
880-1969-4	BH4	Total/NA	Solid	5035	
MB 880-2837/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2837/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2837/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-640-A-28-A MS	Matrix Spike	Total/NA	Solid	5035	
890-640-A-28-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 2845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1969-5	BH5	Total/NA	Solid	5035	
880-1969-6	BH6	Total/NA	Solid	5035	
880-1969-7	BH7	Total/NA	Solid	5035	

GC VOA (Continued)

Prep Batch: 2845 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1969-8	BH8	Total/NA	Solid	5035	
880-1969-9	BH9	Total/NA	Solid	5035	
880-1969-10	BH10	Total/NA	Solid	5035	
880-1969-11	BH11	Total/NA	Solid	5035	
880-1969-12	BH12	Total/NA	Solid	5035	
880-1969-13	BH13	Total/NA	Solid	5035	
880-1969-14	BH14	Total/NA	Solid	5035	
880-1969-15	BH15	Total/NA	Solid	5035	
MB 880-2845/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2845/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2845/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-1969-5 MS	BH5	Total/NA	Solid	5035	
880-1969-5 MSD	BH5	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 2849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1969-1	BH1	Total/NA	Solid	8015NM Prep	
880-1969-2	BH2	Total/NA	Solid	8015NM Prep	
880-1969-3	BH3	Total/NA	Solid	8015NM Prep	
880-1969-4	BH4	Total/NA	Solid	8015NM Prep	
880-1969-5	BH5	Total/NA	Solid	8015NM Prep	
880-1969-6	BH6	Total/NA	Solid	8015NM Prep	
880-1969-7	BH7	Total/NA	Solid	8015NM Prep	
880-1969-8	BH8	Total/NA	Solid	8015NM Prep	
880-1969-9	BH9	Total/NA	Solid	8015NM Prep	
880-1969-10	BH10	Total/NA	Solid	8015NM Prep	
880-1969-11	BH11	Total/NA	Solid	8015NM Prep	
880-1969-12	BH12	Total/NA	Solid	8015NM Prep	
880-1969-13	BH13	Total/NA	Solid	8015NM Prep	
880-1969-14	BH14	Total/NA	Solid	8015NM Prep	
880-1969-15	BH15	Total/NA	Solid	8015NM Prep	
MB 880-2849/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2849/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2849/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-1969-1 MS	BH1	Total/NA	Solid	8015NM Prep	
880-1969-1 MSD	BH1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 2867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1969-1	BH1	Total/NA	Solid	8015B NM	2849
880-1969-2	BH2	Total/NA	Solid	8015B NM	2849
880-1969-3	BH3	Total/NA	Solid	8015B NM	2849
880-1969-4	BH4	Total/NA	Solid	8015B NM	2849
880-1969-5	BH5	Total/NA	Solid	8015B NM	2849
880-1969-6	BH6	Total/NA	Solid	8015B NM	2849
880-1969-7	BH7	Total/NA	Solid	8015B NM	2849
880-1969-8	BH8	Total/NA	Solid	8015B NM	2849
880-1969-9	BH9	Total/NA	Solid	8015B NM	2849
880-1969-10	BH10	Total/NA	Solid	8015B NM	2849

GC Semi VOA (Continued)

Analysis Batch: 2867 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1969-11	BH11	Total/NA	Solid	8015B NM	2849
880-1969-12	BH12	Total/NA	Solid	8015B NM	2849
880-1969-13	BH13	Total/NA	Solid	8015B NM	2849
880-1969-14	BH14	Total/NA	Solid	8015B NM	2849
880-1969-15	BH15	Total/NA	Solid	8015B NM	2849
MB 880-2849/1-A	Method Blank	Total/NA	Solid	8015B NM	2849
LCS 880-2849/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2849
LCSD 880-2849/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2849
880-1969-1 MS	BH1	Total/NA	Solid	8015B NM	2849
880-1969-1 MSD	BH1	Total/NA	Solid	8015B NM	2849

HPLC/IC

Leach Batch: 2850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1969-1	BH1	Soluble	Solid	DI Leach	
880-1969-2	BH2	Soluble	Solid	DI Leach	
880-1969-3	BH3	Soluble	Solid	DI Leach	
880-1969-4	BH4	Soluble	Solid	DI Leach	
880-1969-5	BH5	Soluble	Solid	DI Leach	
880-1969-6	BH6	Soluble	Solid	DI Leach	
880-1969-7	BH7	Soluble	Solid	DI Leach	
880-1969-8	BH8	Soluble	Solid	DI Leach	
880-1969-9	BH9	Soluble	Solid	DI Leach	
880-1969-10	BH10	Soluble	Solid	DI Leach	
880-1969-11	BH11	Soluble	Solid	DI Leach	
880-1969-12	BH12	Soluble	Solid	DI Leach	
880-1969-13	BH13	Soluble	Solid	DI Leach	
880-1969-14	BH14	Soluble	Solid	DI Leach	
880-1969-15	BH15	Soluble	Solid	DI Leach	
MB 880-2850/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2850/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2850/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-1969-1 MS	BH1	Soluble	Solid	DI Leach	
880-1969-1 MSD	BH1	Soluble	Solid	DI Leach	
880-1969-11 MS	BH11	Soluble	Solid	DI Leach	
880-1969-11 MSD	BH11	Soluble	Solid	DI Leach	

Analysis Batch: 2902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1969-1	BH1	Soluble	Solid	300.0	2850
880-1969-2	BH2	Soluble	Solid	300.0	2850
880-1969-3	BH3	Soluble	Solid	300.0	2850
880-1969-4	BH4	Soluble	Solid	300.0	2850
880-1969-5	BH5	Soluble	Solid	300.0	2850
880-1969-6	BH6	Soluble	Solid	300.0	2850
880-1969-7	BH7	Soluble	Solid	300.0	2850
880-1969-8	BH8	Soluble	Solid	300.0	2850
880-1969-9	BH9	Soluble	Solid	300.0	2850
880-1969-10	BH10	Soluble	Solid	300.0	2850
880-1969-11	BH11	Soluble	Solid	300.0	2850

HPLC/IC (Continued)

Analysis Batch: 2902 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1969-12	BH12	Soluble	Solid	300.0	2850
880-1969-13	BH13	Soluble	Solid	300.0	2850
880-1969-14	BH14	Soluble	Solid	300.0	2850
880-1969-15	BH15	Soluble	Solid	300.0	2850
MB 880-2850/1-A	Method Blank	Soluble	Solid	300.0	2850
LCS 880-2850/2-A	Lab Control Sample	Soluble	Solid	300.0	2850
LCSD 880-2850/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2850
880-1969-1 MS	BH1	Soluble	Solid	300.0	2850
880-1969-1 MSD	BH1	Soluble	Solid	300.0	2850
880-1969-11 MS	BH11	Soluble	Solid	300.0	2850
880-1969-11 MSD	BH11	Soluble	Solid	300.0	2850

Lab Chronicle

Client: Hungry Horse LLC
Project/Site: State A 1 Battery

Job ID: 880-1969-1

Client Sample ID: BH1

Lab Sample ID: 880-1969-1
Matrix: Solid
Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2837	05/07/21 14:20	MR	XM
Total/NA	Analysis	8021B		1	2787	05/07/21 16:56	KL	XM
Total/NA	Prep	8015NM Prep			2849	05/07/21 15:56	AM	XM
Total/NA	Analysis	8015B NM		1	2867	05/08/21 16:51	AJ	XM
Soluble	Leach	DI Leach			2850	05/07/21 16:11	CH	XM
Soluble	Analysis	300.0		1	2902	05/10/21 18:24	CH	XM

Client Sample ID: BH2

Lab Sample ID: 880-1969-2
Matrix: Solid
Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2837	05/07/21 14:20	MR	XM
Total/NA	Analysis	8021B		1	2787	05/07/21 17:21	KL	XM
Total/NA	Prep	8015NM Prep			2849	05/07/21 15:56	AM	XM
Total/NA	Analysis	8015B NM		1	2867	05/08/21 17:13	AJ	XM
Soluble	Leach	DI Leach			2850	05/07/21 16:11	CH	XM
Soluble	Analysis	300.0		1	2902	05/10/21 18:40	CH	XM

Client Sample ID: BH3

Lab Sample ID: 880-1969-3
Matrix: Solid
Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2837	05/07/21 14:20	MR	XM
Total/NA	Analysis	8021B		1	2787	05/07/21 17:46	KL	XM
Total/NA	Prep	8015NM Prep			2849	05/07/21 15:56	AM	XM
Total/NA	Analysis	8015B NM		1	2867	05/08/21 17:35	AJ	XM
Soluble	Leach	DI Leach			2850	05/07/21 16:11	CH	XM
Soluble	Analysis	300.0		1	2902	05/10/21 18:46	CH	XM

Client Sample ID: BH4

Lab Sample ID: 880-1969-4
Matrix: Solid
Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2837	05/07/21 14:20	MR	XM
Total/NA	Analysis	8021B		1	2787	05/07/21 18:11	KL	XM
Total/NA	Prep	8015NM Prep			2849	05/07/21 15:56	AM	XM
Total/NA	Analysis	8015B NM		1	2867	05/08/21 17:56	AJ	XM
Soluble	Leach	DI Leach			2850	05/07/21 16:11	CH	XM
Soluble	Analysis	300.0		1	2902	05/10/21 18:51	CH	XM

Lab Chronicle

Client: Hungry Horse LLC
Project/Site: State A 1 Battery

Job ID: 880-1969-1

Client Sample ID: BH5

Lab Sample ID: 880-1969-5
Matrix: Solid
Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2845	05/07/21 14:31	KL	XM
Total/NA	Analysis	8021B		1	2835	05/08/21 03:49	KL	XM
Total/NA	Prep	8015NM Prep			2849	05/07/21 15:56	AM	XM
Total/NA	Analysis	8015B NM		1	2867	05/08/21 18:17	AJ	XM
Soluble	Leach	DI Leach			2850	05/07/21 16:11	CH	XM
Soluble	Analysis	300.0		1	2902	05/10/21 18:57	CH	XM

Client Sample ID: BH6

Lab Sample ID: 880-1969-6
Matrix: Solid
Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2845	05/07/21 14:31	KL	XM
Total/NA	Analysis	8021B		1	2835	05/08/21 04:09	KL	XM
Total/NA	Prep	8015NM Prep			2849	05/07/21 15:56	AM	XM
Total/NA	Analysis	8015B NM		1	2867	05/08/21 18:39	AJ	XM
Soluble	Leach	DI Leach			2850	05/07/21 16:11	CH	XM
Soluble	Analysis	300.0		1	2902	05/10/21 19:13	CH	XM

Client Sample ID: BH7

Lab Sample ID: 880-1969-7
Matrix: Solid
Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2845	05/07/21 14:31	KL	XM
Total/NA	Analysis	8021B		1	2835	05/08/21 04:30	KL	XM
Total/NA	Prep	8015NM Prep			2849	05/07/21 15:56	AM	XM
Total/NA	Analysis	8015B NM		1	2867	05/08/21 19:00	AJ	XM
Soluble	Leach	DI Leach			2850	05/07/21 16:11	CH	XM
Soluble	Analysis	300.0		1	2902	05/10/21 19:18	CH	XM

Client Sample ID: BH8

Lab Sample ID: 880-1969-8
Matrix: Solid
Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2845	05/07/21 14:31	KL	XM
Total/NA	Analysis	8021B		1	2835	05/08/21 04:50	KL	XM
Total/NA	Prep	8015NM Prep			2849	05/07/21 15:56	AM	XM
Total/NA	Analysis	8015B NM		1	2867	05/08/21 19:22	AJ	XM
Soluble	Leach	DI Leach			2850	05/07/21 16:11	CH	XM
Soluble	Analysis	300.0		1	2902	05/10/21 19:23	CH	XM

Lab Chronicle

Client: Hungry Horse LLC
Project/Site: State A 1 Battery

Job ID: 880-1969-1

Client Sample ID: BH9

Lab Sample ID: 880-1969-9
Matrix: Solid
Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2845	05/07/21 14:31	KL	XM
Total/NA	Analysis	8021B		1	2835	05/08/21 05:11	KL	XM
Total/NA	Prep	8015NM Prep			2849	05/07/21 15:56	AM	XM
Total/NA	Analysis	8015B NM		1	2867	05/08/21 19:43	AJ	XM
Soluble	Leach	DI Leach			2850	05/07/21 16:11	CH	XM
Soluble	Analysis	300.0		1	2902	05/10/21 19:29	CH	XM

Client Sample ID: BH10

Lab Sample ID: 880-1969-10
Matrix: Solid
Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2845	05/07/21 14:31	KL	XM
Total/NA	Analysis	8021B		1	2835	05/08/21 05:31	KL	XM
Total/NA	Prep	8015NM Prep			2849	05/07/21 15:56	AM	XM
Total/NA	Analysis	8015B NM		1	2867	05/08/21 20:05	AJ	XM
Soluble	Leach	DI Leach			2850	05/07/21 16:11	CH	XM
Soluble	Analysis	300.0		1	2902	05/10/21 19:34	CH	XM

Client Sample ID: BH11

Lab Sample ID: 880-1969-11
Matrix: Solid
Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2845	05/07/21 14:31	KL	XM
Total/NA	Analysis	8021B		1	2835	05/08/21 05:52	KL	XM
Total/NA	Prep	8015NM Prep			2849	05/07/21 15:56	AM	XM
Total/NA	Analysis	8015B NM		1	2867	05/08/21 20:47	AJ	XM
Soluble	Leach	DI Leach			2850	05/07/21 16:11	CH	XM
Soluble	Analysis	300.0		1	2902	05/10/21 19:40	CH	XM

Client Sample ID: BH12

Lab Sample ID: 880-1969-12
Matrix: Solid
Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2845	05/07/21 14:31	KL	XM
Total/NA	Analysis	8021B		1	2835	05/08/21 06:12	KL	XM
Total/NA	Prep	8015NM Prep			2849	05/07/21 15:56	AM	XM
Total/NA	Analysis	8015B NM		1	2867	05/08/21 21:08	AJ	XM
Soluble	Leach	DI Leach			2850	05/07/21 16:11	CH	XM
Soluble	Analysis	300.0		1	2902	05/10/21 19:56	CH	XM

Lab Chronicle

Client: Hungry Horse LLC
Project/Site: State A 1 Battery

Job ID: 880-1969-1

Client Sample ID: BH13

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Lab Sample ID: 880-1969-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2845	05/07/21 14:31	KL	XM
Total/NA	Analysis	8021B		1	2835	05/08/21 06:32	KL	XM
Total/NA	Prep	8015NM Prep			2849	05/07/21 15:56	AM	XM
Total/NA	Analysis	8015B NM		1	2867	05/08/21 21:30	AJ	XM
Soluble	Leach	DI Leach			2850	05/07/21 16:11	CH	XM
Soluble	Analysis	300.0		1	2902	05/10/21 20:01	CH	XM

Client Sample ID: BH14

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Lab Sample ID: 880-1969-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2845	05/07/21 14:31	KL	XM
Total/NA	Analysis	8021B		1	2835	05/08/21 06:53	KL	XM
Total/NA	Prep	8015NM Prep			2849	05/07/21 15:56	AM	XM
Total/NA	Analysis	8015B NM		1	2867	05/08/21 21:51	AJ	XM
Soluble	Leach	DI Leach			2850	05/07/21 16:11	CH	XM
Soluble	Analysis	300.0		1	2902	05/10/21 20:17	CH	XM

Client Sample ID: BH15

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Lab Sample ID: 880-1969-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2845	05/07/21 14:31	KL	XM
Total/NA	Analysis	8021B		1	2835	05/08/21 08:14	KL	XM
Total/NA	Prep	8015NM Prep			2849	05/07/21 15:56	AM	XM
Total/NA	Analysis	8015B NM		1	2867	05/08/21 22:12	AJ	XM
Soluble	Leach	DI Leach			2850	05/07/21 16:11	CH	XM
Soluble	Analysis	300.0		1	2902	05/10/21 20:23	CH	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: State A 1 Battery

Job ID: 880-1969-1

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: State A 1 Battery

Job ID: 880-1969-1

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: State A 1 Battery

Job ID: 880-1969-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-1969-1	BH1	Solid	05/07/21 00:00	05/07/21 13:14	7.5
880-1969-2	BH2	Solid	05/07/21 00:00	05/07/21 13:14	7.5
880-1969-3	BH3	Solid	05/07/21 00:00	05/07/21 13:14	7.5
880-1969-4	BH4	Solid	05/07/21 00:00	05/07/21 13:14	7.5
880-1969-5	BH5	Solid	05/07/21 00:00	05/07/21 13:14	7.5
880-1969-6	BH6	Solid	05/07/21 00:00	05/07/21 13:14	7.5
880-1969-7	BH7	Solid	05/07/21 00:00	05/07/21 13:14	7.5
880-1969-8	BH8	Solid	05/07/21 00:00	05/07/21 13:14	7.5
880-1969-9	BH9	Solid	05/07/21 00:00	05/07/21 13:14	7.5
880-1969-10	BH10	Solid	05/07/21 00:00	05/07/21 13:14	7.5
880-1969-11	BH11	Solid	05/07/21 00:00	05/07/21 13:14	7.5
880-1969-12	BH12	Solid	05/07/21 00:00	05/07/21 13:14	7.5
880-1969-13	BH13	Solid	05/07/21 00:00	05/07/21 13:14	7.5
880-1969-14	BH14	Solid	05/07/21 00:00	05/07/21 13:14	7.5
880-1969-15	BH15	Solid	05/07/21 00:00	05/07/21 13:14	7.5

Chain of Custody

XENCO LABORATORIES

Houston TX (281) 240-4
Midland TX (432) 704
Hobbs NM (575) 392
Tampa FL (813) 620-200

880-1969 Chain of Custody

Work Order No: 1969

www.xenco.com Page 1 of 2

Project Manager	Lindsey Nevels	Bill to (if different)	
Company Name	Hungry Horse LLC	Company Name	Hanson Operating
Address	PO Box 1058	Address	P O Box 1515
City State ZIP	Hobbs, Nm 88241	City State ZIP	Roswell, NM 88202
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	State A 1 Battery	Turn Around	
Project Number		☑ Routine ☐ Rush	
Project Location		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	4.3	
Total Containers.		Corrected Temperature	4.8	

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 Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chloride	TPH	BTEX	Sample Comments
BH1		5/7/2021		7.5			x	x	x	
BH2		5/7/2021		7.5			x	x	x	
BH3		5/7/2021		7.5			x	x	x	
BH4		5/7/2021		7.5			x	x	x	
BH5		5/7/2021		7.5			x	x	x	
BH6		5/7/2021		7.5			x	x	x	
BH7		5/7/2021		7.5			x	x	x	
BH8		5/7/2021		7.5			x	x	x	
BH9		5/7/2021		7.5			x	x	x	
BH10		5/7/2021		7.5			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		5/7/21 1314	2		
3			4		
5			6		

Revised Date 05012020 Rev 2020 1

5/14/2021

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
www xenco com

Work Order No: 1969

5/14/2021

Project Manager	Lindsey Nevels	Bill to (if different)	
Company Name	Hungry Horse LLC	Company Name	Hanson Operating
Address	PO Box 1058	Address	P O Box 1515
City State ZIP	Hobbs, Nm 88241	City, State ZIP	Roswell NM 88202
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.	State A 1 Battery	Turn Around	
Project Number		☑ Routine ☐ Rush	
Project Location		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	4.3
Total Containers.		Corrected Temperature	4.8

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 Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Chloride	TPH	BTEX	Sample Comments
BH11		5/7/2021		7.5				x	x	x	
BH12		5/7/2021		7.5				x	x	x	
BH13		5/7/2021		7.5				x	x	x	
BH14		5/7/2021		8'				x	x	x	
BH15		5/7/2021		8'				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
	Kelly 5/7/21 1314		2		
3			4		
5			6		

Revised Date 05012020 Rev 2020 1

Login Sample Receipt Checklist

Client: Hungry Horse LLC

Job Number: 880-1969-1

Login Number: 1969
List Number: 1
Creator: Phillips, Kerianna

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.	False	No date or time on COC, logged in per container labels.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
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	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-1971-1
Client Project/Site: State A 1 Battery

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

Attn: Lindsey Nevels

Holly Taylor

Authorized for release by:
5/14/2021 9:25:40 AM

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

Table of Contents

Definitions/Glossary

Client: Hungry Horse LLC
Project/Site: State A 1 Battery

Job ID: 880-1971-1

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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

Job ID: 880-1971-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-1971-1

Receipt
The samples were received on 5/7/2021 1:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.8°C

Receipt Exceptions
The following samples were received at the laboratory without a sample collection time documented on the chain of custody: SW 1 (880-1971-1), SW 2 (880-1971-2), SW 3 (880-1971-3), SW 4 (880-1971-4), SW 5 (880-1971-5) and SW 6 (880-1971-6).

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.

Client Sample ID: SW 1

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Lab Sample ID: 880-1971-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 08:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 08:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 08:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/07/21 14:31	05/08/21 08:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 08:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/07/21 14:31	05/08/21 08:34	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/07/21 14:31	05/08/21 08:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*05/07/21 14:31*	*05/08/21 08:34*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*05/07/21 14:31*	*05/08/21 08:34*	*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	49.8		mg/Kg		05/10/21 10:45	05/10/21 16:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/10/21 10:45	05/10/21 16:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/10/21 10:45	05/10/21 16:39	1
Total TPH	<49.8	U	49.8		mg/Kg		05/10/21 10:45	05/10/21 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*05/10/21 10:45*	*05/10/21 16:39*	*1*
o-Terphenyl	*108*		*70 - 130*	*05/10/21 10:45*	*05/10/21 16:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.5**		4.96		mg/Kg			05/10/21 20:28	1

Client Sample ID: SW 2

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Lab Sample ID: 880-1971-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 08:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 08:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 08:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/07/21 14:31	05/08/21 08:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 08:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/07/21 14:31	05/08/21 08:55	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/07/21 14:31	05/08/21 08:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*05/07/21 14:31*	*05/08/21 08:55*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/07/21 14:31*	*05/08/21 08:55*	*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	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 22:34	1

Client Sample ID: SW 2

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Lab Sample ID: 880-1971-2
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 22:34	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 22:34	1
Total TPH	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 22:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*05/07/21 15:56*	*05/08/21 22:34*	*1*
o-Terphenyl	*119*		*70 - 130*	*05/07/21 15:56*	*05/08/21 22:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.44**		5.00		mg/Kg			05/10/21 20:33	1

Client Sample ID: SW 3

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Lab Sample ID: 880-1971-3
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 09:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 09:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 09:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/21 14:31	05/08/21 09:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 09:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/21 14:31	05/08/21 09:15	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/07/21 14:31	05/08/21 09:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*05/07/21 14:31*	*05/08/21 09:15*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/07/21 14:31*	*05/08/21 09:15*	*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	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 22:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 22:55	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 22:55	1
Total TPH	<49.9	U	49.9		mg/Kg		05/07/21 15:56	05/08/21 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*05/07/21 15:56*	*05/08/21 22:55*	*1*
o-Terphenyl	*120*		*70 - 130*	*05/07/21 15:56*	*05/08/21 22:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.77**		4.95		mg/Kg			05/10/21 20:39	1

Client Sample ID: SW 4

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Lab Sample ID: 880-1971-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/07/21 14:31	05/08/21 09:36	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/07/21 14:31	05/08/21 09:36	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/07/21 14:31	05/08/21 09:36	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/07/21 14:31	05/08/21 09:36	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/07/21 14:31	05/08/21 09:36	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/07/21 14:31	05/08/21 09:36	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		05/07/21 14:31	05/08/21 09:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*05/07/21 14:31*	*05/08/21 09:36*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*05/07/21 14:31*	*05/08/21 09:36*	*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	49.8		mg/Kg		05/07/21 15:56	05/08/21 23:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/21 15:56	05/08/21 23:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/21 15:56	05/08/21 23:16	1
Total TPH	<49.8	U	49.8		mg/Kg		05/07/21 15:56	05/08/21 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*05/07/21 15:56*	*05/08/21 23:16*	*1*
o-Terphenyl	*110*		*70 - 130*	*05/07/21 15:56*	*05/08/21 23:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.62**		4.95		mg/Kg			05/10/21 20:44	1

Client Sample ID: SW 5

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Lab Sample ID: 880-1971-5
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 09:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 09:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 09:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/07/21 14:31	05/08/21 09:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 09:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/07/21 14:31	05/08/21 09:56	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		05/07/21 14:31	05/08/21 09:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*05/07/21 14:31*	*05/08/21 09:56*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/07/21 14:31*	*05/08/21 09:56*	*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	<50.0	U	50.0		mg/Kg		05/07/21 15:56	05/09/21 11:26	1

Client Sample ID: SW 5

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Lab Sample ID: 880-1971-5
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	174		50.0		mg/Kg		05/07/21 15:56	05/09/21 11:26	1
Oil Range Organics (Over C28-C36)	99.7		50.0		mg/Kg		05/07/21 15:56	05/09/21 11:26	1
Total TPH	274		50.0		mg/Kg		05/07/21 15:56	05/09/21 11:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*05/07/21 15:56*	*05/09/21 11:26*	*1*
o-Terphenyl	*111*		*70 - 130*	*05/07/21 15:56*	*05/09/21 11:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/10/21 20:49	1

Client Sample ID: SW 6

Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Lab Sample ID: 880-1971-6
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/07/21 14:31	05/08/21 10:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/07/21 14:31	05/08/21 10:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/07/21 14:31	05/08/21 10:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/07/21 14:31	05/08/21 10:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/07/21 14:31	05/08/21 10:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/07/21 14:31	05/08/21 10:16	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/07/21 14:31	05/08/21 10:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/07/21 14:31*	*05/08/21 10:16*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*05/07/21 14:31*	*05/08/21 10:16*	*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	49.8		mg/Kg		05/07/21 15:56	05/09/21 11:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/21 15:56	05/09/21 11:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/21 15:56	05/09/21 11:47	1
Total TPH	<49.8	U	49.8		mg/Kg		05/07/21 15:56	05/09/21 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*05/07/21 15:56*	*05/09/21 11:47*	*1*
o-Terphenyl	*104*		*70 - 130*	*05/07/21 15:56*	*05/09/21 11:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.4		5.02		mg/Kg			05/10/21 21:33	1

Surrogate Summary

Client: Hungry Horse LLC
Project/Site: State A 1 Battery

Job ID: 880-1971-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-1951-A-1-B MSD	Matrix Spike Duplicate	108	102
880-1969-A-5-B MS	Matrix Spike	110	98
880-1969-A-5-C MSD	Matrix Spike Duplicate	112	101
880-1971-1	SW 1	109	96
880-1971-2	SW 2	95	95
880-1971-3	SW 3	94	94
880-1971-4	SW 4	94	93
880-1971-5	SW 5	94	94
880-1971-6	SW 6	91	96
LCS 880-2829/1-A	Lab Control Sample	110	100
LCS 880-2845/1-A	Lab Control Sample	120	103
LCSD 880-2829/2-A	Lab Control Sample Dup	107	105
LCSD 880-2845/2-A	Lab Control Sample Dup	114	100
MB 880-2829/5-A	Method Blank	84	94
MB 880-2845/5-A	Method Blank	77	92

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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-1969-A-1-E MS	Matrix Spike	93	101
880-1969-A-1-F MSD	Matrix Spike Duplicate	97	100
880-1971-1	SW 1	106	108
880-1971-2	SW 2	104	119
880-1971-3	SW 3	100	120
880-1971-4	SW 4	97	110
880-1971-5	SW 5	101	111
880-1971-6	SW 6	91	104
890-645-A-1-K MS	Matrix Spike	116	111
890-645-A-1-L MSD	Matrix Spike Duplicate	112	111
LCS 880-2849/2-A	Lab Control Sample	98	103
LCS 880-2896/2-A	Lab Control Sample	115	110
LCSD 880-2849/3-A	Lab Control Sample Dup	105	112
LCSD 880-2896/3-A	Lab Control Sample Dup	111	109
MB 880-2849/1-A	Method Blank	88	107
MB 880-2896/1-A	Method Blank	115	119

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-2829/5-A
Matrix: Solid
Analysis Batch: 2835

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2829

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/07/21 11:08	05/07/21 16:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*05/07/21 11:08*	*05/07/21 16:37*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/07/21 11:08*	*05/07/21 16:37*	*1*

Lab Sample ID: LCS 880-2829/1-A
Matrix: Solid
Analysis Batch: 2835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2829

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09587		mg/Kg		96	70 - 130		
Toluene			0.100	0.09388		mg/Kg		94	70 - 130		
Ethylbenzene			0.100	0.09893		mg/Kg		99	70 - 130		
m-Xylene & p-Xylene			0.200	0.2118		mg/Kg		106	70 - 130		
o-Xylene			0.100	0.1056		mg/Kg		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-2829/2-A
Matrix: Solid
Analysis Batch: 2835

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2829

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1026		mg/Kg		103	70 - 130	7	35
Toluene			0.100	0.09895		mg/Kg		99	70 - 130	5	35
Ethylbenzene			0.100	0.1040		mg/Kg		104	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2231		mg/Kg		112	70 - 130	5	35
o-Xylene			0.100	0.1112		mg/Kg		111	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-1951-A-1-B MSD
Matrix: Solid
Analysis Batch: 2835

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 2829

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0258	F1	0.0994	0.08539	F1	mg/Kg		60	70 - 130	8	35

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-1951-A-1-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 2835 — **Prep Batch: 2829**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.0180	F1	0.0994	0.07864	F1	mg/Kg		61	70 - 130	11	35
Ethylbenzene	<0.00200	U	0.0994	0.07319		mg/Kg		72	70 - 130	15	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1521		mg/Kg		76	70 - 130	15	35
o-Xylene	<0.00200	U	0.0994	0.07767		mg/Kg		77	70 - 130	16	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 880-2845/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 2835 — **Prep Batch: 2845**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 03:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 03:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 03:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/21 14:31	05/08/21 03:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 14:31	05/08/21 03:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/21 14:31	05/08/21 03:27	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/07/21 14:31	05/08/21 03:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*05/07/21 14:31*	*05/08/21 03:27*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*05/07/21 14:31*	*05/08/21 03:27*	*1*

Lab Sample ID: LCS 880-2845/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 2835 — **Prep Batch: 2845**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1034		mg/Kg		103	70 - 130		
Toluene			0.100	0.1026		mg/Kg		103	70 - 130		
Ethylbenzene			0.100	0.1079		mg/Kg		108	70 - 130		
m-Xylene & p-Xylene			0.200	0.2317		mg/Kg		116	70 - 130		
o-Xylene			0.100	0.1185		mg/Kg		118	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-2845/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 2835 — **Prep Batch: 2845**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09824		mg/Kg		98	70 - 130	5	35
Toluene			0.100	0.09620		mg/Kg		96	70 - 130	6	35

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-2845/2-A
Matrix: Solid
Analysis Batch: 2835

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2845

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			0.100	0.1009		mg/Kg		101	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.2155		mg/Kg		108	70 - 130	7	35
o-Xylene			0.100	0.1105		mg/Kg		111	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-1969-A-5-B MS
Matrix: Solid
Analysis Batch: 2835

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 2845

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F1	0.0996	0.04724	F1	mg/Kg		47	70 - 130
Toluene	<0.00200	U F1	0.0996	0.04876	F1	mg/Kg		49	70 - 130
Ethylbenzene	<0.00200	U F1	0.0996	0.05154	F1	mg/Kg		52	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.199	0.1048	F1	mg/Kg		53	70 - 130
o-Xylene	<0.00200	U F1	0.0996	0.05538	F1	mg/Kg		56	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-1969-A-5-C MSD
Matrix: Solid
Analysis Batch: 2835

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 2845

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0996	0.05960	F1	mg/Kg		60	70 - 130	23	35
Toluene	<0.00200	U F1	0.0996	0.05910	F1	mg/Kg		59	70 - 130	19	35
Ethylbenzene	<0.00200	U F1	0.0996	0.06301	F1	mg/Kg		63	70 - 130	20	35
m-Xylene & p-Xylene	<0.00399	U F1	0.199	0.1290	F1	mg/Kg		65	70 - 130	21	35
o-Xylene	<0.00200	U F1	0.0996	0.06720	F1	mg/Kg		67	70 - 130	19	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-2849/1-A
Matrix: Solid
Analysis Batch: 2867

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2849

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		05/07/21 15:56	05/08/21 15:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/21 15:56	05/08/21 15:04	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-2849/1-A
Matrix: Solid
Analysis Batch: 2867

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2849

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/21 15:56	05/08/21 15:04	1
Total TPH	<50.0	U	50.0		mg/Kg		05/07/21 15:56	05/08/21 15:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*05/07/21 15:56*	*05/08/21 15:04*	*1*
o-Terphenyl	*107*		*70 - 130*	*05/07/21 15:56*	*05/08/21 15:04*	*1*

Lab Sample ID: LCS 880-2849/2-A
Matrix: Solid
Analysis Batch: 2867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2849

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	851.5		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1165		mg/Kg		116	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*103*		*70 - 130*

Lab Sample ID: LCSD 880-2849/3-A
Matrix: Solid
Analysis Batch: 2867

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2849

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	888.8		mg/Kg		89	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1257		mg/Kg		126	70 - 130	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*112*		*70 - 130*

Lab Sample ID: 880-1969-A-1-E MS
Matrix: Solid
Analysis Batch: 2867

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 2849

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	841	F1	996	<49.8	U F1	mg/Kg		0	70 - 130		
Diesel Range Organics (Over C10-C28)	1240	F1	996	<49.8	U F1	mg/Kg		0	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-1969-A-1-F MSD
Matrix: Solid
Analysis Batch: 2867

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 2849

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	841	F1	996	857.2	F1	mg/Kg		2	70 - 130	NC	20
Diesel Range Organics (Over C10-C28)	1240	F1	996	1241	F1	mg/Kg		0.6	70 - 130	NC	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: MB 880-2896/1-A
Matrix: Solid
Analysis Batch: 2879

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2896

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		05/10/21 10:45	05/10/21 12:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/10/21 10:45	05/10/21 12:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/10/21 10:45	05/10/21 12:51	1
Total TPH	<50.0	U	50.0		mg/Kg		05/10/21 10:45	05/10/21 12:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*05/10/21 10:45*	*05/10/21 12:51*	*1*
o-Terphenyl	*119*		*70 - 130*	*05/10/21 10:45*	*05/10/21 12:51*	*1*

Lab Sample ID: LCS 880-2896/2-A
Matrix: Solid
Analysis Batch: 2879

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2896

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	967.1		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1159		mg/Kg		116	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*115*		*70 - 130*
o-Terphenyl	*110*		*70 - 130*

Lab Sample ID: LCSD 880-2896/3-A
Matrix: Solid
Analysis Batch: 2879

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2896

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	938.1		mg/Kg		94	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1126		mg/Kg		113	70 - 130	3	20

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-2896/3-A
Matrix: Solid
Analysis Batch: 2879

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2896

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*
o-Terphenyl	*109*		*70 - 130*

Lab Sample ID: 890-645-A-1-K MS
Matrix: Solid
Analysis Batch: 2879

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 2896

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	976.3		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	999	1217		mg/Kg		122	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*116*		*70 - 130*
o-Terphenyl	*111*		*70 - 130*

Lab Sample ID: 890-645-A-1-L MSD
Matrix: Solid
Analysis Batch: 2879

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 2896

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	<49.8	U	998	948.0		mg/Kg		95	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1199		mg/Kg		120	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*112*		*70 - 130*
o-Terphenyl	*111*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2850/1-A
Matrix: Solid
Analysis Batch: 2902

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			05/10/21 18:08	1

Lab Sample ID: LCS 880-2850/2-A
Matrix: Solid
Analysis Batch: 2902

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	233.0		mg/Kg		93	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-2850/3-A
Matrix: Solid
Analysis Batch: 2902

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	238.0		mg/Kg		95	90 - 110	2	20

Lab Sample ID: 880-1969-A-11-D MS
Matrix: Solid
Analysis Batch: 2902

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	46.5		248	279.4		mg/Kg		94	90 - 110

Lab Sample ID: 880-1969-A-11-E MSD
Matrix: Solid
Analysis Batch: 2902

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	46.5		248	276.5		mg/Kg		93	90 - 110	1	20

Lab Sample ID: MB 880-2854/1-A
Matrix: Solid
Analysis Batch: 2923

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			05/10/21 21:16	1

Lab Sample ID: LCS 880-2854/2-A
Matrix: Solid
Analysis Batch: 2923

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride			250	238.8		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-2854/3-A
Matrix: Solid
Analysis Batch: 2923

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	238.8		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-1971-6 MS
Matrix: Solid
Analysis Batch: 2923

Client Sample ID: SW 6
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	12.4		251	251.5		mg/Kg		95	90 - 110

Lab Sample ID: 880-1971-6 MSD
Matrix: Solid
Analysis Batch: 2923

Client Sample ID: SW 6
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	12.4		251	243.5		mg/Kg		92	90 - 110	3	20

GC VOA

Prep Batch: 2829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-2829/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2829/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2829/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-1951-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 2835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1971-1	SW 1	Total/NA	Solid	8021B	2845
880-1971-2	SW 2	Total/NA	Solid	8021B	2845
880-1971-3	SW 3	Total/NA	Solid	8021B	2845
880-1971-4	SW 4	Total/NA	Solid	8021B	2845
880-1971-5	SW 5	Total/NA	Solid	8021B	2845
880-1971-6	SW 6	Total/NA	Solid	8021B	2845
MB 880-2829/5-A	Method Blank	Total/NA	Solid	8021B	2829
MB 880-2845/5-A	Method Blank	Total/NA	Solid	8021B	2845
LCS 880-2829/1-A	Lab Control Sample	Total/NA	Solid	8021B	2829
LCS 880-2845/1-A	Lab Control Sample	Total/NA	Solid	8021B	2845
LCSD 880-2829/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2829
LCSD 880-2845/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2845
880-1951-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	2829
880-1969-A-5-B MS	Matrix Spike	Total/NA	Solid	8021B	2845
880-1969-A-5-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	2845

Prep Batch: 2845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1971-1	SW 1	Total/NA	Solid	5035	
880-1971-2	SW 2	Total/NA	Solid	5035	
880-1971-3	SW 3	Total/NA	Solid	5035	
880-1971-4	SW 4	Total/NA	Solid	5035	
880-1971-5	SW 5	Total/NA	Solid	5035	
880-1971-6	SW 6	Total/NA	Solid	5035	
MB 880-2845/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2845/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2845/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-1969-A-5-B MS	Matrix Spike	Total/NA	Solid	5035	
880-1969-A-5-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 2849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1971-2	SW 2	Total/NA	Solid	8015NM Prep	
880-1971-3	SW 3	Total/NA	Solid	8015NM Prep	
880-1971-4	SW 4	Total/NA	Solid	8015NM Prep	
880-1971-5	SW 5	Total/NA	Solid	8015NM Prep	
880-1971-6	SW 6	Total/NA	Solid	8015NM Prep	
MB 880-2849/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2849/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2849/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-1969-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-1969-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Hungry Horse LLC
Project/Site: State A 1 Battery

Job ID: 880-1971-1

GC Semi VOA

Analysis Batch: 2867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1971-2	SW 2	Total/NA	Solid	8015B NM	2849
880-1971-3	SW 3	Total/NA	Solid	8015B NM	2849
880-1971-4	SW 4	Total/NA	Solid	8015B NM	2849
880-1971-5	SW 5	Total/NA	Solid	8015B NM	2849
880-1971-6	SW 6	Total/NA	Solid	8015B NM	2849
MB 880-2849/1-A	Method Blank	Total/NA	Solid	8015B NM	2849
LCS 880-2849/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2849
LCSD 880-2849/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2849
880-1969-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	2849
880-1969-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	2849

Analysis Batch: 2879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1971-1	SW 1	Total/NA	Solid	8015B NM	2896
MB 880-2896/1-A	Method Blank	Total/NA	Solid	8015B NM	2896
LCS 880-2896/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2896
LCSD 880-2896/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2896
890-645-A-1-K MS	Matrix Spike	Total/NA	Solid	8015B NM	2896
890-645-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	2896

Prep Batch: 2896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1971-1	SW 1	Total/NA	Solid	8015NM Prep	
MB 880-2896/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2896/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2896/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-645-A-1-K MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-645-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 2850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1971-1	SW 1	Soluble	Solid	DI Leach	
880-1971-2	SW 2	Soluble	Solid	DI Leach	
880-1971-3	SW 3	Soluble	Solid	DI Leach	
880-1971-4	SW 4	Soluble	Solid	DI Leach	
880-1971-5	SW 5	Soluble	Solid	DI Leach	
MB 880-2850/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2850/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2850/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-1969-A-11-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-1969-A-11-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 2854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1971-6	SW 6	Soluble	Solid	DI Leach	
MB 880-2854/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2854/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2854/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-1971-6 MS	SW 6	Soluble	Solid	DI Leach	

HPLC/IC (Continued)

Leach Batch: 2854 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1971-6 MSD	SW 6	Soluble	Solid	DI Leach	

Analysis Batch: 2902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1971-1	SW 1	Soluble	Solid	300.0	2850
880-1971-2	SW 2	Soluble	Solid	300.0	2850
880-1971-3	SW 3	Soluble	Solid	300.0	2850
880-1971-4	SW 4	Soluble	Solid	300.0	2850
880-1971-5	SW 5	Soluble	Solid	300.0	2850
MB 880-2850/1-A	Method Blank	Soluble	Solid	300.0	2850
LCS 880-2850/2-A	Lab Control Sample	Soluble	Solid	300.0	2850
LCSD 880-2850/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2850
880-1969-A-11-D MS	Matrix Spike	Soluble	Solid	300.0	2850
880-1969-A-11-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	2850

Analysis Batch: 2923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1971-6	SW 6	Soluble	Solid	300.0	2854
MB 880-2854/1-A	Method Blank	Soluble	Solid	300.0	2854
LCS 880-2854/2-A	Lab Control Sample	Soluble	Solid	300.0	2854
LCSD 880-2854/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2854
880-1971-6 MS	SW 6	Soluble	Solid	300.0	2854
880-1971-6 MSD	SW 6	Soluble	Solid	300.0	2854

Lab Chronicle

Client: Hungry Horse LLC
Project/Site: State A 1 Battery

Job ID: 880-1971-1

Client Sample ID: SW 1

Lab Sample ID: 880-1971-1
Matrix: Solid
Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2845	05/07/21 14:31	KL	XM
Total/NA	Analysis	8021B		1	2835	05/08/21 08:34	KL	XM
Total/NA	Prep	8015NM Prep			2896	05/10/21 10:45	AM	XM
Total/NA	Analysis	8015B NM		1	2879	05/10/21 16:39	AJ	XM
Soluble	Leach	DI Leach			2850	05/07/21 16:11	CH	XM
Soluble	Analysis	300.0		1	2902	05/10/21 20:28	CH	XM

Client Sample ID: SW 2

Lab Sample ID: 880-1971-2
Matrix: Solid
Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2845	05/07/21 14:31	KL	XM
Total/NA	Analysis	8021B		1	2835	05/08/21 08:55	KL	XM
Total/NA	Prep	8015NM Prep			2849	05/07/21 15:56	AM	XM
Total/NA	Analysis	8015B NM		1	2867	05/08/21 22:34	AJ	XM
Soluble	Leach	DI Leach			2850	05/07/21 16:11	CH	XM
Soluble	Analysis	300.0		1	2902	05/10/21 20:33	CH	XM

Client Sample ID: SW 3

Lab Sample ID: 880-1971-3
Matrix: Solid
Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2845	05/07/21 14:31	KL	XM
Total/NA	Analysis	8021B		1	2835	05/08/21 09:15	KL	XM
Total/NA	Prep	8015NM Prep			2849	05/07/21 15:56	AM	XM
Total/NA	Analysis	8015B NM		1	2867	05/08/21 22:55	AJ	XM
Soluble	Leach	DI Leach			2850	05/07/21 16:11	CH	XM
Soluble	Analysis	300.0		1	2902	05/10/21 20:39	CH	XM

Client Sample ID: SW 4

Lab Sample ID: 880-1971-4
Matrix: Solid
Date Collected: 05/07/21 00:00
Date Received: 05/07/21 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2845	05/07/21 14:31	KL	XM
Total/NA	Analysis	8021B		1	2835	05/08/21 09:36	KL	XM
Total/NA	Prep	8015NM Prep			2849	05/07/21 15:56	AM	XM
Total/NA	Analysis	8015B NM		1	2867	05/08/21 23:16	AJ	XM
Soluble	Leach	DI Leach			2850	05/07/21 16:11	CH	XM
Soluble	Analysis	300.0		1	2902	05/10/21 20:44	CH	XM

Lab Chronicle

Client: Hungry Horse LLC
Project/Site: State A 1 Battery

Job ID: 880-1971-1

Client Sample ID: SW 5

Lab Sample ID: 880-1971-5

Date Collected: 05/07/21 00:00

Matrix: Solid

Date Received: 05/07/21 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2845	05/07/21 14:31	KL	XM
Total/NA	Analysis	8021B		1	2835	05/08/21 09:56	KL	XM
Total/NA	Prep	8015NM Prep			2849	05/07/21 15:56	AM	XM
Total/NA	Analysis	8015B NM		1	2867	05/09/21 11:26	AJ	XM
Soluble	Leach	DI Leach			2850	05/07/21 16:11	CH	XM
Soluble	Analysis	300.0		1	2902	05/10/21 20:49	CH	XM

Client Sample ID: SW 6

Lab Sample ID: 880-1971-6

Date Collected: 05/07/21 00:00

Matrix: Solid

Date Received: 05/07/21 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2845	05/07/21 14:31	KL	XM
Total/NA	Analysis	8021B		1	2835	05/08/21 10:16	KL	XM
Total/NA	Prep	8015NM Prep			2849	05/07/21 15:56	AM	XM
Total/NA	Analysis	8015B NM		1	2867	05/09/21 11:47	AJ	XM
Soluble	Leach	DI Leach			2854	05/07/21 18:21	SC	XM
Soluble	Analysis	300.0		1	2923	05/10/21 21:33	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: State A 1 Battery

Job ID: 880-1971-1

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: State A 1 Battery

Job ID: 880-1971-1

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: State A 1 Battery

Job ID: 880-1971-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-1971-1	SW 1	Solid	05/07/21 00:00	05/07/21 13:14	
880-1971-2	SW 2	Solid	05/07/21 00:00	05/07/21 13:14	
880-1971-3	SW 3	Solid	05/07/21 00:00	05/07/21 13:14	
880-1971-4	SW 4	Solid	05/07/21 00:00	05/07/21 13:14	
880-1971-5	SW 5	Solid	05/07/21 00:00	05/07/21 13:14	
880-1971-6	SW 6	Solid	05/07/21 00:00	05/07/21 13:14	

XENCO LABORATORIES

Houston TX
Midland T
Hobbs NM
Tampa FL (8

(10) 509-3334
06) 794-1296
30) 355-0900
L (561) 689-6701

880-1971 Chain of Custody

Work Order No: 1971

5/14/2021

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Project Manager	Lindsey Nevels	Bill to (if different)	
Company Name	Hungry Horse LLC	Company Name.	Hanson Operating
Address.	PO Box 1058	Address	P O Box 1515
City State ZIP	Hobbs, Nm 88241	City, State ZIP	Roswell NM 88202
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	State A 1 Battery	Turn Around	
Project Number		☑ Routine ☐ Rush	
Project Location		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		4.3
Total Containers.		Corrected Temperature.		4.8

ANALYSIS REQUEST

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 Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chloride	TPH	BTEX	Sample Comments
SW 1		5/7/2021		3.5			x	x	x	
SW 2		5/7/2021		3.5			x	x	x	
SW 3		5/7/2021		3.5			x	x	x	
SW 4		5/7/2021		3.5			x	x	x	
SW 5		5/7/2021		3.5			x	x	x	
SW 6		5/7/2021		3.5			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			5/7/21 1314	2		
3				4		
5				6		

Revised Date 05012020 Rev 2020 1

Login Sample Receipt Checklist

Client: Hungry Horse LLC

Job Number: 880-1971-1

Login Number: 1971
List Number: 1
Creator: Phillips, Kerianna

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.	False	No date or time on COC or sample containers
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
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	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
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Laboratory Job ID: 880-2238-1
Client Project/Site: Hanland State Battery #1

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

Attn: Lindsey Nevels

Holly Taylor

Authorized for release by:
5/19/2021 4:04:34 PM

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Table of Contents

Definitions/Glossary

Client: Hungry Horse LLC
Project/Site: Hanland State Battery #1

Job ID: 880-2238-1

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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: Hanland State Battery #1

Job ID: 880-2238-1

Job ID: 880-2238-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-2238-1

Comments
No additional comments.

Receipt
The samples were received on 5/18/2021 2:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 6.0º C.

Receipt Exceptions

The following samples were received at the laboratory without a sample collection time documented on the chain of custody: BH (880-2238-1) and SW5b (880-2238-2).

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

GC Semi VOA
Method 8015B NM: Manual integration was performed on the following sample: BH1b (880-2238-1). The oil range detections in these samples was the result of baseline rise and was not an actual indication of oil range hydrocarbons.

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

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

Client Sample ID: BH1b

Date Collected: 05/17/21 00:00
Date Received: 05/18/21 00:00
Sample Depth: 8'

Lab Sample ID: 880-2238-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/18/21 08:38	05/18/21 21:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/18/21 08:38	05/18/21 21:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/18/21 08:38	05/18/21 21:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/18/21 08:38	05/18/21 21:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/18/21 08:38	05/18/21 21:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/18/21 08:38	05/18/21 21:39	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/18/21 08:38	05/18/21 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*05/18/21 08:38*	*05/18/21 21:39*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/18/21 08:38*	*05/18/21 21:39*	*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	<49.9	U	49.9		mg/Kg		05/18/21 16:00	05/18/21 20:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/18/21 16:00	05/18/21 20:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/18/21 16:00	05/18/21 20:33	1
Total TPH	<49.9	U	49.9		mg/Kg		05/18/21 16:00	05/18/21 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*05/18/21 16:00*	*05/18/21 20:33*	*1*
o-Terphenyl	*109*		*70 - 130*	*05/18/21 16:00*	*05/18/21 20:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.6**		4.95		mg/Kg			05/18/21 17:03	1

Client Sample ID: SW5b

Date Collected: 05/17/21 00:00
Date Received: 05/18/21 00:00
Sample Depth: 3.5'

Lab Sample ID: 880-2238-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/18/21 08:38	05/18/21 22:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/18/21 08:38	05/18/21 22:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/18/21 08:38	05/18/21 22:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/18/21 08:38	05/18/21 22:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/18/21 08:38	05/18/21 22:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/18/21 08:38	05/18/21 22:00	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/18/21 08:38	05/18/21 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*05/18/21 08:38*	*05/18/21 22:00*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*05/18/21 08:38*	*05/18/21 22:00*	*1*

Client: Hungry Horse LLC
Project/Site: Hanland State Battery #1

Job ID: 880-2238-1

Client Sample ID: SW5b

Date Collected: 05/17/21 00:00
Date Received: 05/18/21 00:00
Sample Depth: 3.5'

Lab Sample ID: 880-2238-2

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/18/21 16:00	05/18/21 20:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/18/21 16:00	05/18/21 20:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/18/21 16:00	05/18/21 20:55	1
Total TPH	<50.0	U	50.0		mg/Kg		05/18/21 16:00	05/18/21 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*05/18/21 16:00*	*05/18/21 20:55*	*1*
o-Terphenyl	*110*		*70 - 130*	*05/18/21 16:00*	*05/18/21 20:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.42		4.95		mg/Kg			05/18/21 17:21	1

Surrogate Summary

Client: Hungry Horse LLC
Project/Site: Hanland State Battery #1

Job ID: 880-2238-1

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)
880-2238-1	BH1b	96	97
880-2238-2	SW5b	90	93
890-678-A-3-C MS	Matrix Spike	105	100
LCS 880-3195/1-A	Lab Control Sample	107	103
LCSD 880-3195/2-A	Lab Control Sample Dup	105	104
MB 880-3195/5-A	Method Blank	84	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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		
890-678-A-3-D MSD	Matrix Spike Duplicate		

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)
880-2238-1	BH1b	102	109
880-2238-2	SW5b	99	110
890-678-A-41-C MS	Matrix Spike	101	90
890-678-A-41-D MSD	Matrix Spike Duplicate	97	88
LCS 880-3210/2-A	Lab Control Sample	102	98
LCSD 880-3210/3-A	Lab Control Sample Dup	105	97
MB 880-3210/1-A	Method Blank	112	105

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3195/5-A
Matrix: Solid
Analysis Batch: 3199

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3195

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/18/21 08:38	05/18/21 14:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/18/21 08:38	05/18/21 14:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/18/21 08:38	05/18/21 14:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/18/21 08:38	05/18/21 14:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/18/21 08:38	05/18/21 14:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/18/21 08:38	05/18/21 14:09	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/18/21 08:38	05/18/21 14:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*05/18/21 08:38*	*05/18/21 14:09*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/18/21 08:38*	*05/18/21 14:09*	*1*

Lab Sample ID: LCS 880-3195/1-A
Matrix: Solid
Analysis Batch: 3199

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3195

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08072		mg/Kg		81	70 - 130		
Toluene			0.100	0.08281		mg/Kg		83	70 - 130		
Ethylbenzene			0.100	0.09180		mg/Kg		92	70 - 130		
m-Xylene & p-Xylene			0.200	0.1920		mg/Kg		96	70 - 130		
o-Xylene			0.100	0.09894		mg/Kg		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-3195/2-A
Matrix: Solid
Analysis Batch: 3199

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3195

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.07828		mg/Kg		78	70 - 130	3	35
Toluene			0.100	0.07992		mg/Kg		80	70 - 130	4	35
Ethylbenzene			0.100	0.08818		mg/Kg		88	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1832		mg/Kg		92	70 - 130	5	35
o-Xylene			0.100	0.09405		mg/Kg		94	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-678-A-3-C MS
Matrix: Solid
Analysis Batch: 3199

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3195

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00199	U F1	0.0996	0.06313	F1	mg/Kg		63	70 - 130		

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-678-A-3-C MS
Matrix: Solid
Analysis Batch: 3199

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3195

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	<0.00199	U F1	0.0996	0.06608	F1	mg/Kg		66	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.07234		mg/Kg		73	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1502		mg/Kg		75	70 - 130
o-Xylene	<0.00199	U	0.0996	0.07723		mg/Kg		78	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-678-A-3-D MSD
Matrix: Solid
Analysis Batch: 3199

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 3195

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0996	0.05696		mg/Kg					
Toluene	<0.00199	U F1	0.0996	0.06281		mg/Kg					
Ethylbenzene	<0.00199	U	0.0996	0.06784		mg/Kg					
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1377		mg/Kg					
o-Xylene	<0.00199	U	0.0996	0.07073		mg/Kg					

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-3210/1-A
Matrix: Solid
Analysis Batch: 3205

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3210

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		05/18/21 11:59	05/18/21 12:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/18/21 11:59	05/18/21 12:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/18/21 11:59	05/18/21 12:58	1
Total TPH	<50.0	U	50.0	mg/Kg		05/18/21 11:59	05/18/21 12:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*05/18/21 11:59*	*05/18/21 12:58*	*1*
o-Terphenyl	*105*		*70 - 130*	*05/18/21 11:59*	*05/18/21 12:58*	*1*

Lab Sample ID: LCS 880-3210/2-A
Matrix: Solid
Analysis Batch: 3205

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3210

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	873.5		mg/Kg		87	70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-3210/2-A
Matrix: Solid
Analysis Batch: 3205

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3210

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics (Over C10-C28)			1000	1084		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 130*
o-Terphenyl	*98*		*70 - 130*

Lab Sample ID: LCSD 880-3210/3-A
Matrix: Solid
Analysis Batch: 3205

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3210

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	900.4		mg/Kg		90	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1097		mg/Kg		110	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Lab Sample ID: 890-678-A-41-C MS
Matrix: Solid
Analysis Batch: 3205

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3210

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	965.1		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1148		mg/Kg		114	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Lab Sample ID: 890-678-A-41-D MSD
Matrix: Solid
Analysis Batch: 3205

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 3210

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	<49.9	U	996	942.1		mg/Kg		92	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1149		mg/Kg		114	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3209/1-A
Matrix: Solid
Analysis Batch: 3211

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			05/18/21 16:09	1

Lab Sample ID: LCS 880-3209/2-A
Matrix: Solid
Analysis Batch: 3211

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	245.2		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-3209/3-A
Matrix: Solid
Analysis Batch: 3211

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	244.3		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 820-711-A-1-D MS
Matrix: Solid
Analysis Batch: 3211

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	6.21		249	257.0		mg/Kg		101	90 - 110		

Lab Sample ID: 820-711-A-1-E MSD
Matrix: Solid
Analysis Batch: 3211

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	6.21		249	255.5		mg/Kg		100	90 - 110	1	20

QC Association Summary

Client: Hungry Horse LLC
Project/Site: Hanland State Battery #1

Job ID: 880-2238-1

GC VOA

Prep Batch: 3195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2238-1	BH1b	Total/NA	Solid	5035	
880-2238-2	SW5b	Total/NA	Solid	5035	
MB 880-3195/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3195/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3195/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-678-A-3-C MS	Matrix Spike	Total/NA	Solid	5035	
890-678-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 3199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2238-1	BH1b	Total/NA	Solid	8021B	3195
880-2238-2	SW5b	Total/NA	Solid	8021B	3195
MB 880-3195/5-A	Method Blank	Total/NA	Solid	8021B	3195
LCS 880-3195/1-A	Lab Control Sample	Total/NA	Solid	8021B	3195
LCSD 880-3195/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3195
890-678-A-3-C MS	Matrix Spike	Total/NA	Solid	8021B	3195
890-678-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	3195

GC Semi VOA

Analysis Batch: 3205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2238-1	BH1b	Total/NA	Solid	8015B NM	3210
880-2238-2	SW5b	Total/NA	Solid	8015B NM	3210
MB 880-3210/1-A	Method Blank	Total/NA	Solid	8015B NM	3210
LCS 880-3210/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3210
LCSD 880-3210/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3210
890-678-A-41-C MS	Matrix Spike	Total/NA	Solid	8015B NM	3210
890-678-A-41-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	3210

Prep Batch: 3210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2238-1	BH1b	Total/NA	Solid	8015NM Prep	
880-2238-2	SW5b	Total/NA	Solid	8015NM Prep	
MB 880-3210/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3210/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3210/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-678-A-41-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-678-A-41-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 3209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2238-1	BH1b	Soluble	Solid	DI Leach	
880-2238-2	SW5b	Soluble	Solid	DI Leach	
MB 880-3209/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3209/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3209/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-711-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	
820-711-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

QC Association Summary

Client: Hungry Horse LLC
Project/Site: Hanland State Battery #1

Job ID: 880-2238-1

HPLC/IC

Analysis Batch: 3211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2238-1	BH1b	Soluble	Solid	300.0	3209
880-2238-2	SW5b	Soluble	Solid	300.0	3209
MB 880-3209/1-A	Method Blank	Soluble	Solid	300.0	3209
LCS 880-3209/2-A	Lab Control Sample	Soluble	Solid	300.0	3209
LCSD 880-3209/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3209
820-711-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	3209
820-711-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	3209

Lab Chronicle

Client: Hungry Horse LLC
Project/Site: Hanland State Battery #1

Job ID: 880-2238-1

Client Sample ID: BH1b

Lab Sample ID: 880-2238-1

Date Collected: 05/17/21 00:00
Matrix: Solid
Date Received: 05/18/21 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3195	05/18/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	3199	05/18/21 21:39	KL	XEN MID
Total/NA	Prep	8015NM Prep			3210	05/18/21 16:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3205	05/18/21 20:33	AJ	XEN MID
Soluble	Leach	DI Leach			3209	05/18/21 11:39	CH	XEN MID
Soluble	Analysis	300.0		1	3211	05/18/21 17:03	CH	XEN MID

Client Sample ID: SW5b

Lab Sample ID: 880-2238-2

Date Collected: 05/17/21 00:00
Matrix: Solid
Date Received: 05/18/21 00:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3195	05/18/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	3199	05/18/21 22:00	KL	XEN MID
Total/NA	Prep	8015NM Prep			3210	05/18/21 16:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3205	05/18/21 20:55	AJ	XEN MID
Soluble	Leach	DI Leach			3209	05/18/21 11:39	CH	XEN MID
Soluble	Analysis	300.0		1	3211	05/18/21 17:21	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Hungry Horse LLC
Job ID: 880-2238-1
Project/Site: Hanland State Battery #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: Hanland State Battery #1

Job ID: 880-2238-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

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:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Hungry Horse LLC
Project/Site: Hanland State Battery #1

Job ID: 880-2238-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-2238-1	BH1b	Solid	05/17/21 00:00	05/18/21 00:00	
880-2238-2	SW5b	Solid	05/17/21 00:00	05/18/21 00:00	

XENCO LABORATORIES

Chain of Custody

Houston TX (281) 240-4200 Dallas
Midland TX (432) 704-5440 EL Pa
Hobbs NM (575) 392-7550 Carlsba
Tampa, FL (813) 620-2000 Tallahasse
Atlant

880-2238 Chain of Custody

Work Order No: 2238

www xenco com Page ____ of ____

Project Manager	Lindsey Nevels	Bill to (if different)	
Company Name	Hungry Horse LLC	Company Name	Hanson Operating
Address	PO Box 1058	Address	P O Box 1515
City, State ZIP	Hobbs, Nm 88241	City State ZIP	Roswell NM 88202
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	Hanlad	Turn Around	
Project Number		☐ Routine	☑ Rush
Project Location	Hanlad State Battery #1	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	5.5		
Total Containers	2	Corrected Temperature	6.0		

ANALYSIS REQUEST (Pres. Code / Parameters)

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Chloride	TPH	BTEX	Sample Comments
BH1b	Soil	5/17/2021		8'	Comp		X	X	X	
SW5b	Soil	5/17/2021		3 5'	Comp		X	X	X	

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	

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	NR	3:34 5/17	2 NR	K [signature]	5/18/21 1420
3			4		
5			6		

Revised Date 05012020 Rev 2020 1

Login Sample Receipt Checklist

Client: Hungry Horse LLC

Job Number: 880-2238-1
SDG Number:

Login Number: 2238
List Number: 1
Creator: Teel, Brianna

List Source: Eurofins Xenco, 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.	False	No times on COC, logged in per container labels.
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	

Attachment V
NMOCD Form C-141 Remediation and Closure Pages

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2106343455
District RP	
Facility ID	30-005-62341
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?	undetermined(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.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2106343455
District RP	
Facility ID	30-005-62341
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: John Maxey Title: Vice President

Signature: Date: 5/28/2021

email: jcm@hansonop.com Telephone: 575-622-7330

OCD Only

Received by: Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2106343455
District RP	
Facility ID	30-005-62341
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.***

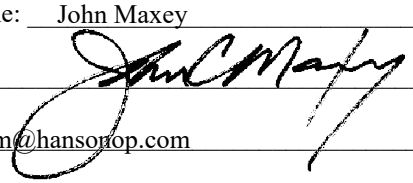
☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ 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: John Maxey Title: Vice President

Signature:  Date: 5/28/2021

email: jcm@hansonop.com Telephone: 575-622-7330

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2106343455
District RP	
Facility ID	30-005-62341
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: John Maxey Title: Vice President

Signature: Date: 5/28/2021

email: jcm@hansonop.com Telephone: 575-622-7330

OCD Only

Received by: Date:

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: Date:

Printed Name: Title: