
Denise Jones

From: OCDOnline@state.nm.us
Sent: Monday, June 22, 2020 11:12 AM
To: Denise Jones
Subject: [EXTERNAL] New Mexico OCD Application Submission was Approved by the OCD

The Oil Conservation Division (OCD) has approved the application PO: VKO8T-200618-C-1410.
The original application was submitted by Denise Jones for GRAND BANKS ENERGY CO.

The user added the additional comment:

"To whom it may concern, The NMOCD has accepted the submitted C-141 and the tracking number for this event is NRM2017435952. Please retain this incident number as it is required for all future communication and submittals.
NOTE: As of 12/13/2019, NMOCD has discontinued the use of the "RP" number. Thank you. Ramona Marcus, Compliance Officer NMOCD Ramona.Marcus@state.nm.us " .

If you are concerned about receiving this email or have any other questions, please feel free to contact our Santa Fe OCD office.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

4024 Plains Hwy
Lovington, NM 88260
ddominguez@hungry-horse.com
Office: (575) 393-3386



Final Closure Report

Grand Banks Energy Co
Rancho Verde 10 State Well #2
Lea County, New Mexico
Unit Letter "E", Section 10, Township 16 South, Range 32 East
Latitude 32.9374008 North, Longitude 103.759887 West
NMOCD Incident # NRM2017435952

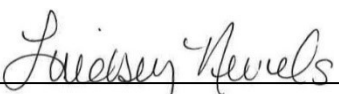
Prepared For:

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

Prepared By:

Hungry Horse, LLC
4024 Plains Hwy
Lovington, NM 88260

March 2021


Lindsey Nevels
Project Manager

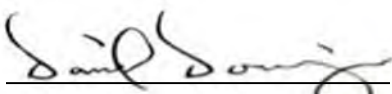

Daniel Dominguez
Sr. Project Manager

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- Attachment I – Site Photographs
- Attachment II – Depth to Groundwater and Well Drilling Information
- Attachment III – Field Data and Seed Tag
- Attachment IV – Laboratory Analytical Reports
- Attachment V – NMOCD Email Correspondence
- Attachment VI – NMOCD Form C-141 Remediation and Closure Pages



HUNGRY HORSE, LLC

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

Background:

The site is located in Unit Letter E (SW/NW), Section 10, Township 16 South, Range 32 East, approximately 6 miles north of Maljamar, in Lea County, New Mexico. The property is owned by the Bogle LTD Co. Topographic Map, OSE POD Locations Map, and USGS Well Locations Map are included as Figure 1, Figure 2, and Figure 3, respectively.

The release site occurred on an active well pad; latitude 32.93619 North, Longitude 103.7613 West. The initial NMOC Form C-141 indicated that on January 16, 2018 approximately 3 bbls of oil were released due to a casing leak. No oil was recovered. Previously submitted pages of the NMOC Form C-141 are available on the NMOC Imaging System. Signed Remediation and Closure Pages of the NMOC Form C-141 are included as Attachment VI.

NMOC 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. Karst mapping indicates the site is not located in a Karst designated area.

As no water wells could be located within a half mile of the release area, depth to water could not be determined. Approximate depth to groundwater was determined using published water well data and, per NMOC guidance, drilling a 51-foot borehole at the location to determine if groundwater was present within 50 feet of ground surface.

On October 8, 2020, per NMOSE approved Application For Permit to Drill, well L-15011 POD1 was drilled to a depth of 51 feet bgs. The bore hole was drilled, a period of 72 hours was observed, and then the bore was gauged for presence of water. On October 12, 2020, no water was present in the borehole when gauged.

In accordance with the NMOSE approved Well Plugging Plan of Operations, on October 15, 2020, the borehole was plugged with bentonite pellets.

Depth to groundwater information, including Application For Permit to Drill, Well Plugging Plan of Operations, Well Record and Log, and Plugging Record, are provided as Attachment II and the results are depicted on Figures 2 & 3.



Utilizing this information, the NMOCD Closure Criteria for the Site were determined as follows:

Depth to Groundwater	Constituent	Method	Limit
>51'	Chloride	EPA 300.0 or SM4500 CLB	10,000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2,500 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Methods 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Methods 8021B or 8260B	10 mg/kg

Delineation and Remediation Activities:

From April 2, 2020 through May 6, 2020 Hungry Horse conducted an initial site assessment and a series of sampling events. During the sampling events, a series of sample test trenches were advanced throughout the release area in an effort to determine the vertical extent of contamination. In addition, sample test trenches were advanced along the inferred edges of the affected area in an effort to determine the horizontal extent of contamination. During the advancement of the test trenches, soil samples were collected and field screened for chloride concentrations via titration method utilizing a LaMotte Chloride Kit.

On July 20, 2020, remediation activities commenced on location. The release area over the reserve pit was scraped of any visible stains and stockpiled on-site, atop plastic, pending final transport to disposal. The area characterized by sample locations SP4, SP6, SP7, and SP21 was excavated to a depth of approximately eight feet bgs. The floor and sidewalls of the excavation were advanced until laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria.

On July 21, 2020, thirty confirmation soil samples were collected. Samples C1 through C24, FL1, FL2, and SW1 through SW4, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples with the exception of C1, C2, and C3, which exhibited a GRO+DRO concentration of 1,370 mg/kg, 1,290 mg/kg, and 1,360 mg/kg, respectively.

On August 3, 2020, Hungry Horse returned to the site for excavation activities. Impacted soil in the area characterized by sample locations C1, C2, and C3 was surface scraped to a depth of approximately six inches bgs and transported to an approved disposal facility. After removal of impacted soil, three confirmation soil samples, C1b, C2b, and C3b, were collected and submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples.



On January 20, 2021, NMOCD denied closure of this site, requesting remediation of the area characterized by sample locations C4 through C24, as laboratory analytical data indicated TPH concentrations in excess of NMOCD Closure Criteria. NMOCD email correspondence, verifying only the area characterized by sample locations C4 through C24 as requiring remediation, is provided as Attachment V.

On February 8, 2021, Hungry Horse returned to the site for additional excavation and sampling activities. Impacted soil in the area characterized by sample locations C4 through C24, was surface scraped to a depth of approximately six inches bgs. Contaminated soil was transported to an approved disposal facility. Confirmation soil samples, C4b through C24b, were then collected and submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples.

A Delineation Sample Location Map and Excavation Sample Location Map are provided as Figure 4 and Figure 5, and 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 affected area off the pad measured approximately 100 ft. in length and 48 ft. in width. The affected area on the pad measured approximately 20 ft. in length, 20 ft. in width and 8 ft. in depth. During remediation activities approximately 830 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 areas were backfilled with clean, non-impacted, material. The areas were contoured to achieve erosion control and preserve surface water flow. The affected area off the production site has been reseeded with an approved seed mixture that is free of noxious weeds. Seed Tag is provided in Attachment III.

Closure Request:

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

Based on laboratory analytical results and field activities conducted to date, Hungry Horse recommends Grand Banks Energy provide copies of this *Final Closure Report* to the appropriate agencies and request closure be granted to the Rancho Verde 10 State Well #2.



Limitations:

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



Distribution:

Grand Banks Energy Co.

P.O. Box 272

Midland, TX 79702

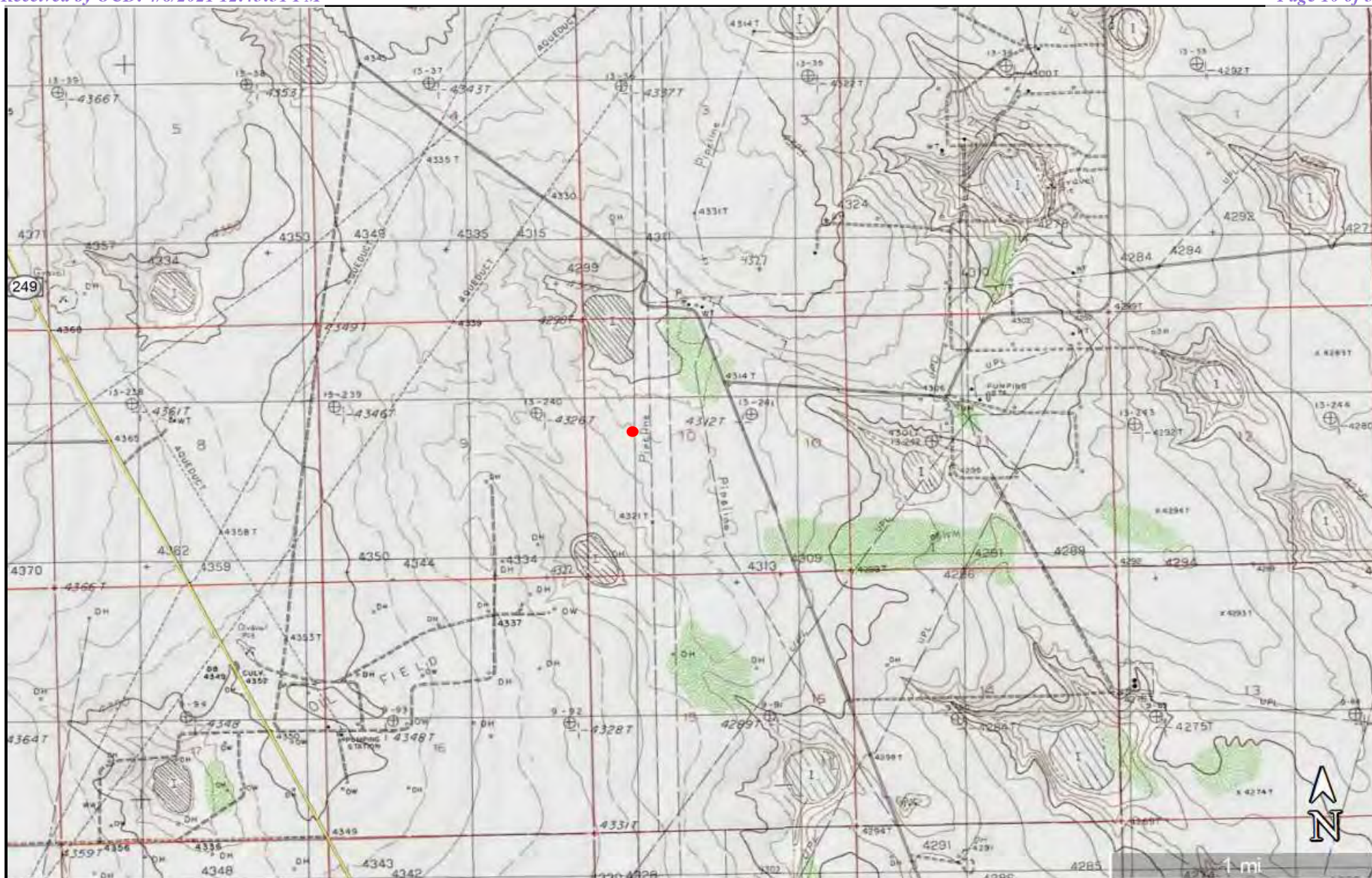
New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 1

1625 N. French Drive

Hobbs, NM 88240

Figures

**Figure 1**

Topographic Map
 Grand Banks Energy Co
 Rancho Verde 10 State Well #2
 GPS: 32.937154, -103.759919
 Lea County

Legend:

- Rancho Verde 10 State Well #2 Location

Drafted: dd
 Checked: Imn
 Date: 6/24/20



**Figure 2**

OSE POD Locations Map
 Grand Banks Energy Co
 Rancho Verde 10 State Well #2
 GPS: 32.937154, -103.759919
 Lea County

Legend:

- Rancho Verde 10 State Well #2 Location
- Active OSE Water Well
- Plugged OSE Water Well
- 51' borehole drilled to determine groundwater depth is greater than 50'

Drafted: dd
 Checked: Imn
 Date: 10/8/20



**Figure 3**

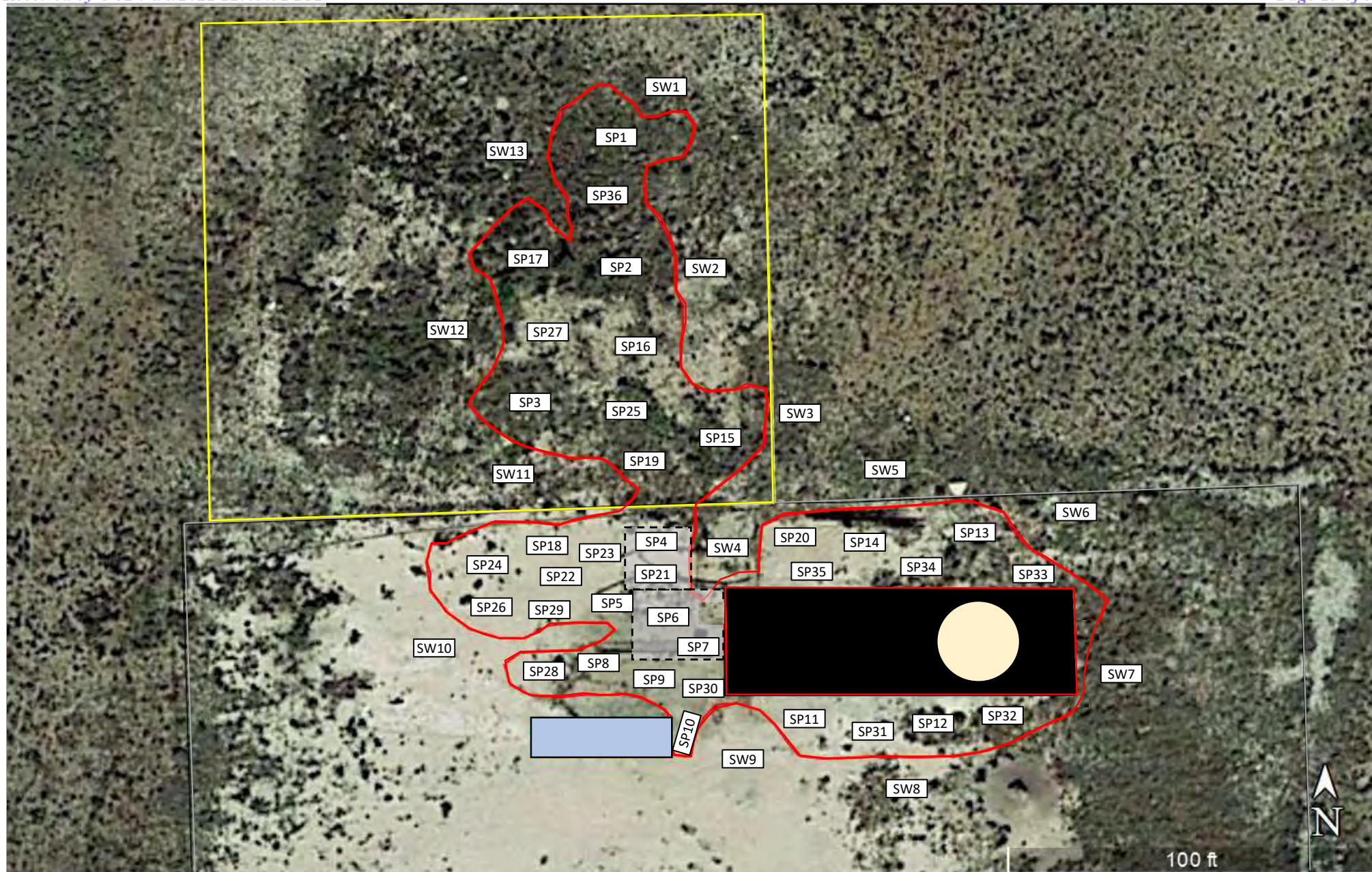
USGS Well Locations Map
Grand Banks Energy Co
Rancho Verde 10 State Well #2
GPS: 32.937154, -103.759919
Lea County

Legend:

- Rancho Verde 10 State Well #2 Location
- USGS Water Well

Drafted: dd
Checked: Imn
Date: 6/24/20



**Figure 4**

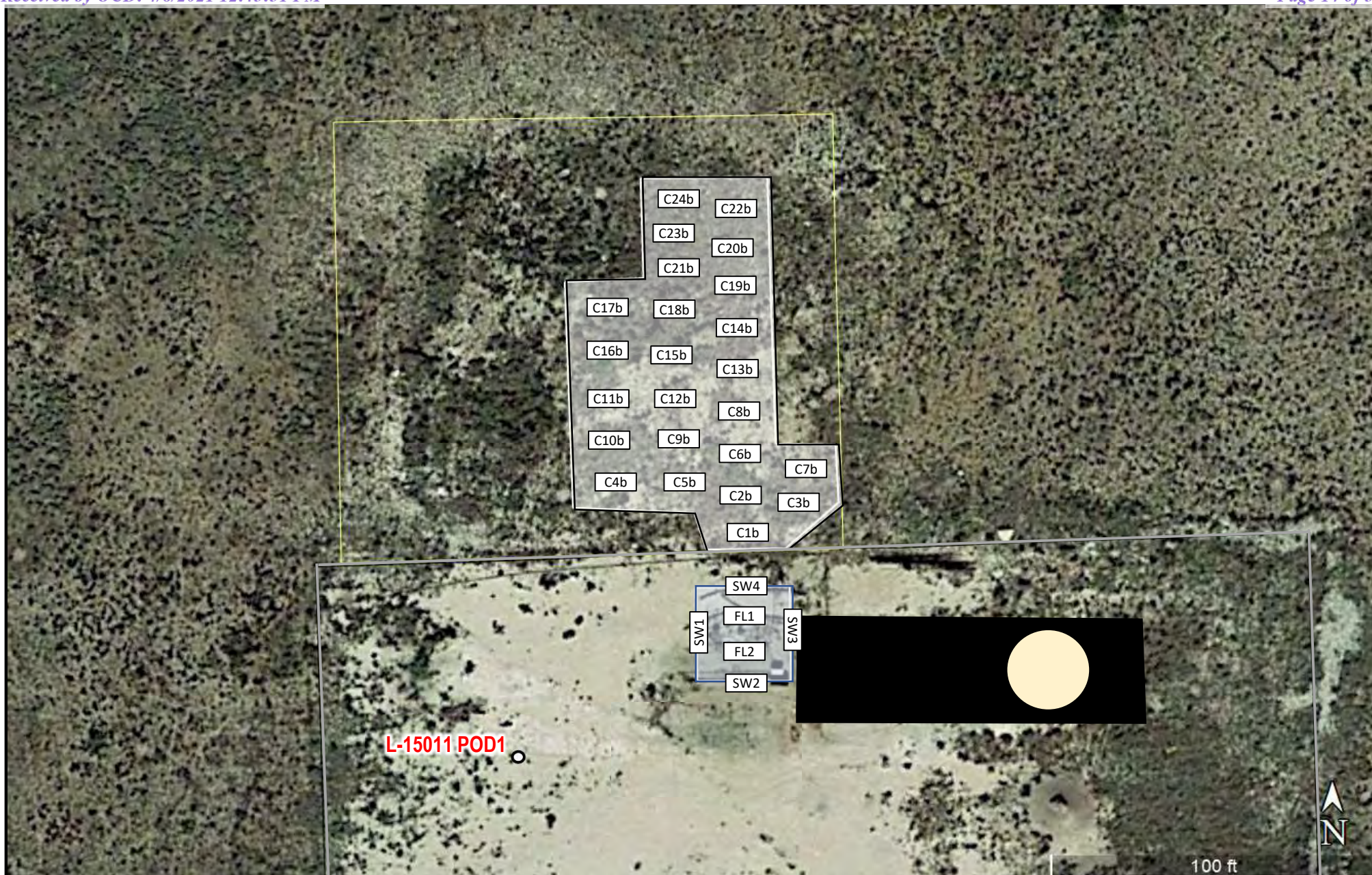
Delineation Sample Location Map
 Grand Banks Energy Co
 Rancho Verde 10 State Well #2
 GPS: 32.937154, -103.759919
 Lea County

Legend:

- | | | | |
|---|------------------------------|---|---------------------------|
| SP1 | Sample Location | | Frac Tank |
| | Release Area | | Well Pad |
| | Containment area on Well Pad | | Proposed Excavation Areas |
| | Reserve Pit | | Storage Tank |

Drafted: dd
 Checked: Imn
 Date: 6/29/20



**Figure 5**

Excavation Sample Location Map
 Grand Banks Energy Co
 Rancho Verde 10 State Well #2
 GPS: 32.937154, -103.759919
 Lea County

Legend:

- | | | | |
|---|---|---|------------------|
| C1 | Composite Sample Location | | Containment area |
| | Surface Scrape | | Storage Tank |
| | 8' Excavation Area | | Reserve Pit |
| | Well pad | | |
| | 51' borehole drilled to determine groundwater depth is greater than 50' | | |

Drafted: Imn
 Checked: dd
 Date: 2/22/21



Tables

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
Grand Banks Energy Co
Rancho Verde 10 State Well #2
NMOCD Ref. #: NRM2017435952

Sample ID	Date	Depth	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)
SP1-4'	4/2/2020	4'	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SP2-4'	4/2/2020	4'	In-Situ	ND	ND	ND	ND	ND	ND	ND	260
SP3-4'	4/2/2020	4'	In-Situ	ND	ND	ND	ND	ND	ND	ND	210
SP4-4'	4/2/2020	4'	Excavated	ND	ND	ND	64.0	64.0	54.4	118	39.9
SP5-8'	4/2/2020	8'	Excavated	ND	0.194	ND	1,540	1,540	694	2,230	4,870
SP5-12'	4/6/2020	12'	In-Situ	ND	ND	ND	166	166	53.1	219	1,420
SP6-6'	4/6/2020	6'	Excavated	ND	0.0670	ND	831	831	445	1,280	5,550
SP7-6'	4/15/2020	6'	Excavated	ND	0.0717	ND	12,500	12,500	4,430	16,900	ND
SP7-14'	4/30/2020	14'	In-Situ	ND	ND	ND	43.1	43.1	ND	43.1	20.3
SP8-8'	4/15/2020	8'	In-Situ	ND	ND	ND	280	280	154	434	35.6
SP9-14'	4/7/2020	14'	In-Situ	ND	0.0521	ND	575	575	280	855	298
SP10-10'	4/6/2020	10'	In-Situ	ND	ND	ND	ND	ND	ND	ND	96.4
SP11-4'	4/6/2020	4'	In-Situ	ND	ND	ND	154	154	ND	154	ND
SP12-10'	4/6/2020	10'	In-Situ	ND	ND	ND	59.9	59.9	ND	59.9	131
SP13-16'	4/6/2020	16'	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SP14-14'	4/15/2020	14'	In-Situ	ND	ND	ND	ND	ND	ND	ND	412
SP15-4'	4/7/2020	4'	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SP16-4'	4/7/2020	4'	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SP17-4'	4/7/2020	4'	In-Situ	ND	ND	ND	ND	ND	ND	ND	146
SP18-6'	4/7/2020	6'	In-Situ	ND	ND	ND	ND	ND	ND	ND	164
SP19-4'	4/7/2020	4'	In-Situ	ND	ND	ND	40.9	40.9	ND	40.9	ND
SP20-8'	4/7/2020	8'	In-Situ	ND	ND	ND	129	129	128	257	240
SP21-4'	4/7/2020	4'	Excavated	ND	ND	ND	1,390	1,390	1,750	3,140	100
SP21-8'	4/30/2020	8'	In-Situ	ND	ND	ND	ND	ND	ND	ND	30.1
SP22-8'	4/7/2020	8'	In-Situ	ND	ND	ND	119	119	74.4	193	ND
SP23-18'	4/30/2020	18'	In-Situ	ND	ND	ND	61.6	61.6	ND	61.6	162
SP24-22'	4/13/2020	22'	In-Situ	ND	ND	ND	ND	ND	ND	ND	880
SP25-4'	4/13/2020	4'	In-Situ	ND	ND	ND	ND	ND	ND	ND	99.8
SP26-10'	4/14/2020	10'	In-Situ	ND	ND	ND	ND	ND	ND	ND	41.6
SP27-4'	4/14/2020	4'	In-Situ	ND	ND	ND	ND	ND	ND	ND	29.6
SP28-6'	4/14/2020	6'	In-Situ	ND	ND	ND	ND	ND	ND	ND	190
SP29-8'	4/14/2020	8'	In-Situ	ND	ND	ND	ND	ND	ND	ND	61.7
SP30-18'	4/15/2020	18'	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SP31-13'	4/15/2020	13'	In-Situ	ND	ND	ND	ND	ND	ND	ND	66.5
SP32-14'	5/4/2020	14'	In-Situ	ND	ND	ND	ND	ND	ND	ND	130
SP33-18'	5/5/2020	18'	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SP34-8'	5/5/2020	8'	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SP35-8'	5/5/2020	8'	In-Situ	ND	ND	ND	ND	ND	ND	ND	342
SP36-4'	5/6/2020	4'	In-Situ	ND	ND	ND	ND	ND	ND	ND	60.9
SW1-2'	4/15/2020	2'	In-Situ	ND	ND	ND	ND	ND	ND	ND	51.0
SW2-2'	4/15/2020	2'	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW3-3'	4/15/2020	2'	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000

NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
Grand Banks Energy Co
Rancho Verde 10 State Well #2
NMOCD Ref. #: NRM2017435952

Sample ID	Date	Depth	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)
SW4-2'	4/15/2020	2'	In-Situ	ND	ND	ND	29.1	29.1	ND	29.1	ND
SW5-2'	4/15/2020	2'	In-Situ	ND	ND	ND	49.2	49.2	ND	49.2	ND
SW6-2'	4/15/2020	2'	In-Situ	ND	ND	ND	145	145	139	284	ND
SW7-2'	4/15/2020	2'	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW8-2'	4/15/2020	2'	In-Situ	ND	ND	ND	ND	ND	ND	ND	268
SW9-2'	4/15/2020	2'	In-Situ	ND	ND	ND	27.8	27.8	ND	27.8	ND
SW10-2'	4/15/2020	2'	In-Situ	ND	ND	ND	ND	ND	ND	ND	84.9
SW11-2'	4/15/2020	2'	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW12-2'	5/6/2020	2'	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW13-2'	5/6/2020	2'	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
C1	7/21/2020	Surface	Excavated	ND	ND	ND	1,370	1,370	546	1,920	30.7
C2	7/21/2020	Surface	Excavated	ND	ND	ND	1,290	1,290	578	1,870	26.0
C3	7/21/2020	Surface	Excavated	ND	ND	ND	1,360	1,360	722	2,080	64.7
C4	7/21/2020	Surface	Excavated	ND	ND	ND	294	294	225	519	ND
C5	7/21/2020	Surface	Excavated	ND	ND	ND	270	270	223	493	ND
C6	7/21/2020	Surface	Excavated	ND	ND	ND	269	269	207	476	ND
C7	7/21/2020	Surface	Excavated	ND	ND	ND	315	315	246	561	ND
C8	7/21/2020	Surface	Excavated	ND	ND	ND	276	276	228	504	ND
C9	7/21/2020	Surface	Excavated	ND	ND	ND	382	382	300	682	ND
C10	7/21/2020	Surface	Excavated	ND	ND	ND	409	409	335	744	ND
C11	7/21/2020	Surface	Excavated	ND	ND	ND	164	164	167	331	ND
C12	7/21/2020	Surface	Excavated	ND	ND	ND	292	292	248	540	ND
C13	7/21/2020	Surface	Excavated	ND	ND	ND	310	310	269	579	ND
C14	7/21/2020	Surface	Excavated	ND	ND	ND	394	394	320	714	ND
C15	7/21/2020	Surface	Excavated	ND	ND	ND	326	326	278	604	ND
C16	7/21/2020	Surface	Excavated	ND	ND	ND	168	168	166	334	ND
C17	7/21/2020	Surface	Excavated	ND	ND	ND	282	282	252	534	ND
C18	7/21/2020	Surface	Excavated	ND	ND	ND	260	260	213	473	ND
C19	7/21/2020	Surface	Excavated	ND	ND	ND	329	329	278	607	ND
C20	7/21/2020	Surface	Excavated	ND	ND	ND	218	218	197	415	ND
C21	7/21/2020	Surface	Excavated	ND	ND	ND	70.2	70.2	62.8	133	ND
C22	7/21/2020	Surface	Excavated	ND	ND	ND	62.9	62.9	70.7	134	ND
C23	7/21/2020	Surface	Excavated	ND	ND	ND	61.9	61.9	66.2	128	ND
C24	7/21/2020	Surface	Excavated	ND	ND	ND	57.8	57.8	72.6	130	ND
FL1	7/21/2020	8'	In-Situ	ND	ND	ND	62.2	62.2	ND	62.2	ND
FL2	7/21/2020	8'	In-Situ	ND	ND	ND	48.7	48.7	ND	48.7	216
SW1	7/21/2020	4'	In-Situ	ND	ND	ND	ND	ND	ND	ND	47.9
SW2	7/21/2020	4'	In-Situ	ND	ND	ND	ND	ND	ND	ND	131
SW3	7/21/2020	4'	In-Situ	ND	ND	ND	ND	ND	ND	ND	125
SW4	7/21/2020	4'	In-Situ	ND	ND	ND	ND	ND	ND	ND	136
C1b	8/3/2020	6"	In-Situ	ND	ND	ND	ND	ND	ND	ND	218
C2b	8/3/2020	6"	In-Situ	ND	ND	ND	ND	ND	ND	ND	264
C3b	8/3/2020	6"	In-Situ	ND	ND	ND	ND	ND	ND	ND	279
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000

NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
Grand Banks Energy Co
Rancho Verde 10 State Well #2
NMOCD Ref. #: NRM2017435952

Sample ID	Date	Depth	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)
C4b	2/8/2021	6"	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	53.8
C5b	2/8/2021	6"	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	60.9
C6b	2/8/2021	6"	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	54.0
C7b	2/8/2021	6"	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	50.4
C8b	2/8/2021	6"	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	64.5
C9b	2/8/2021	6"	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	69.8
C10b	2/8/2021	6"	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	57.6
C11b	2/8/2021	6"	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	53.1
C12b	2/8/2021	6"	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	60.9
C13b	2/8/2021	6"	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	61.3
C14b	2/8/2021	6"	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	58.0
C15b	2/8/2021	6"	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	47.1
C16b	2/8/2021	6"	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	49.4
C17b	2/8/2021	6"	In-Situ	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	58.7
C18b	2/8/2021	6"	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	59.2
C19b	2/8/2021	6"	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	43.5
C20b	2/8/2021	6"	In-Situ	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	53.0
C21b	2/8/2021	6"	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	83.1
C22b	2/8/2021	6"	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	78.7
C23b	2/8/2021	6"	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	47.4
C24b	2/8/2021	6"	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	47.2
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000

NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Attachment I Site Photographs

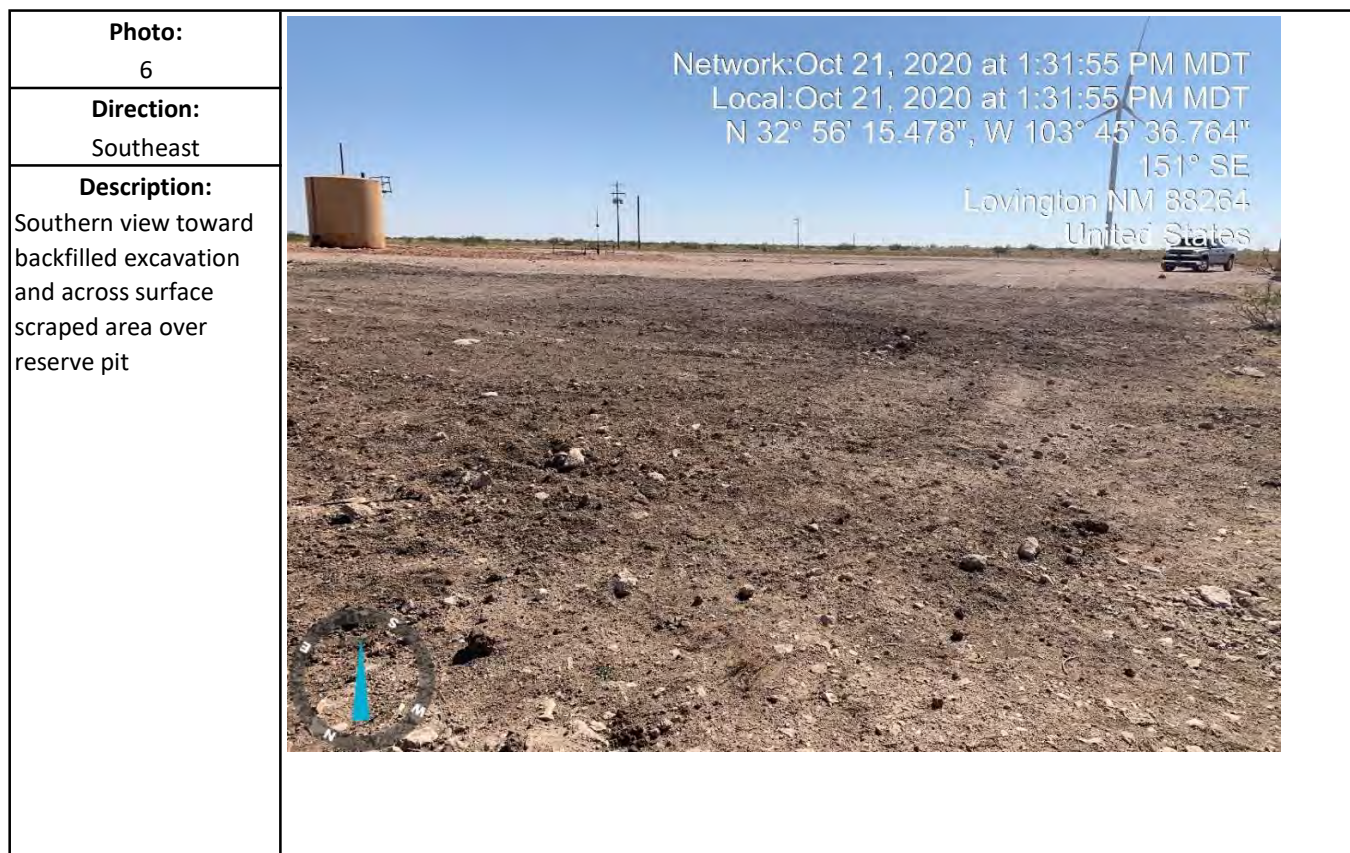
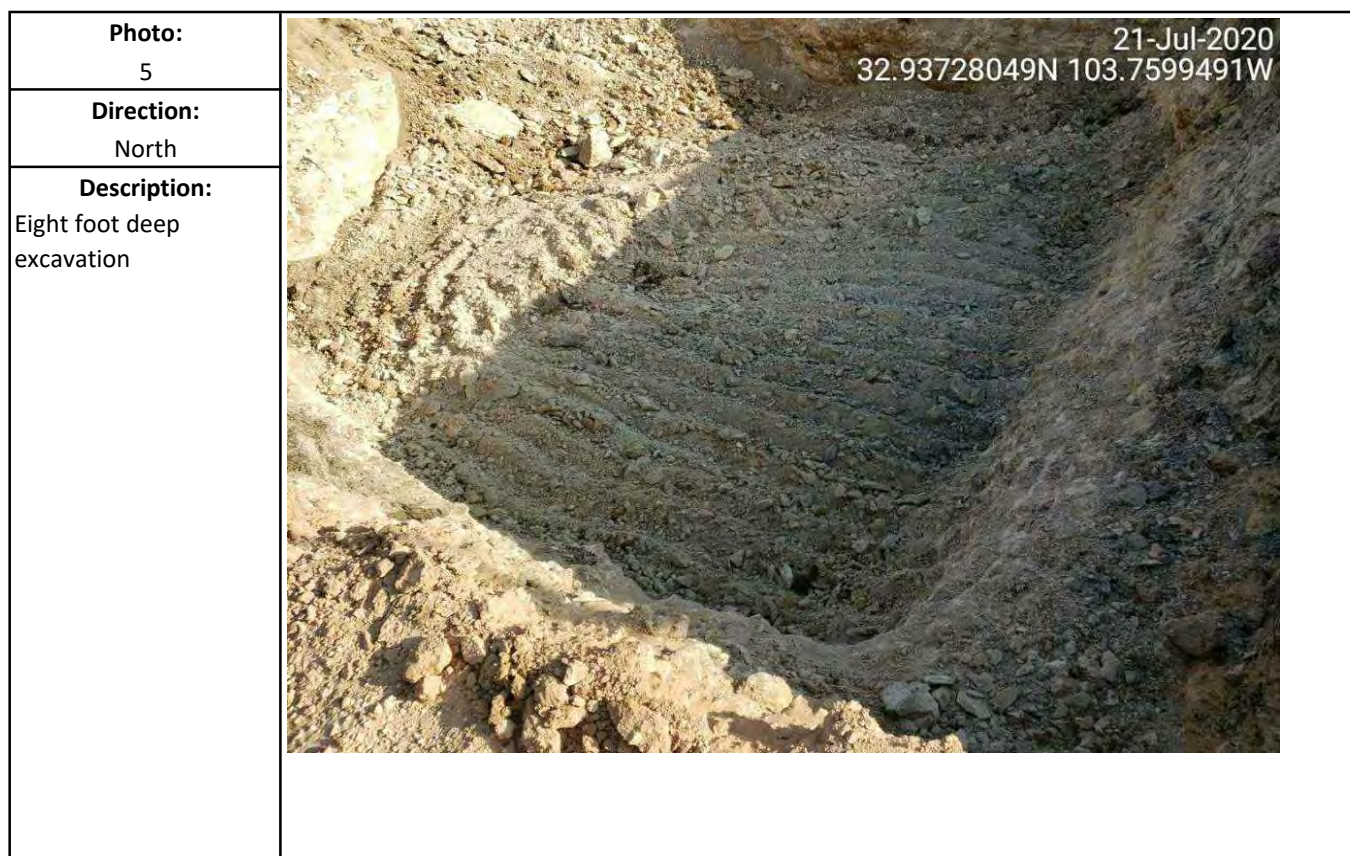
Photographs



Photographs



Photographs

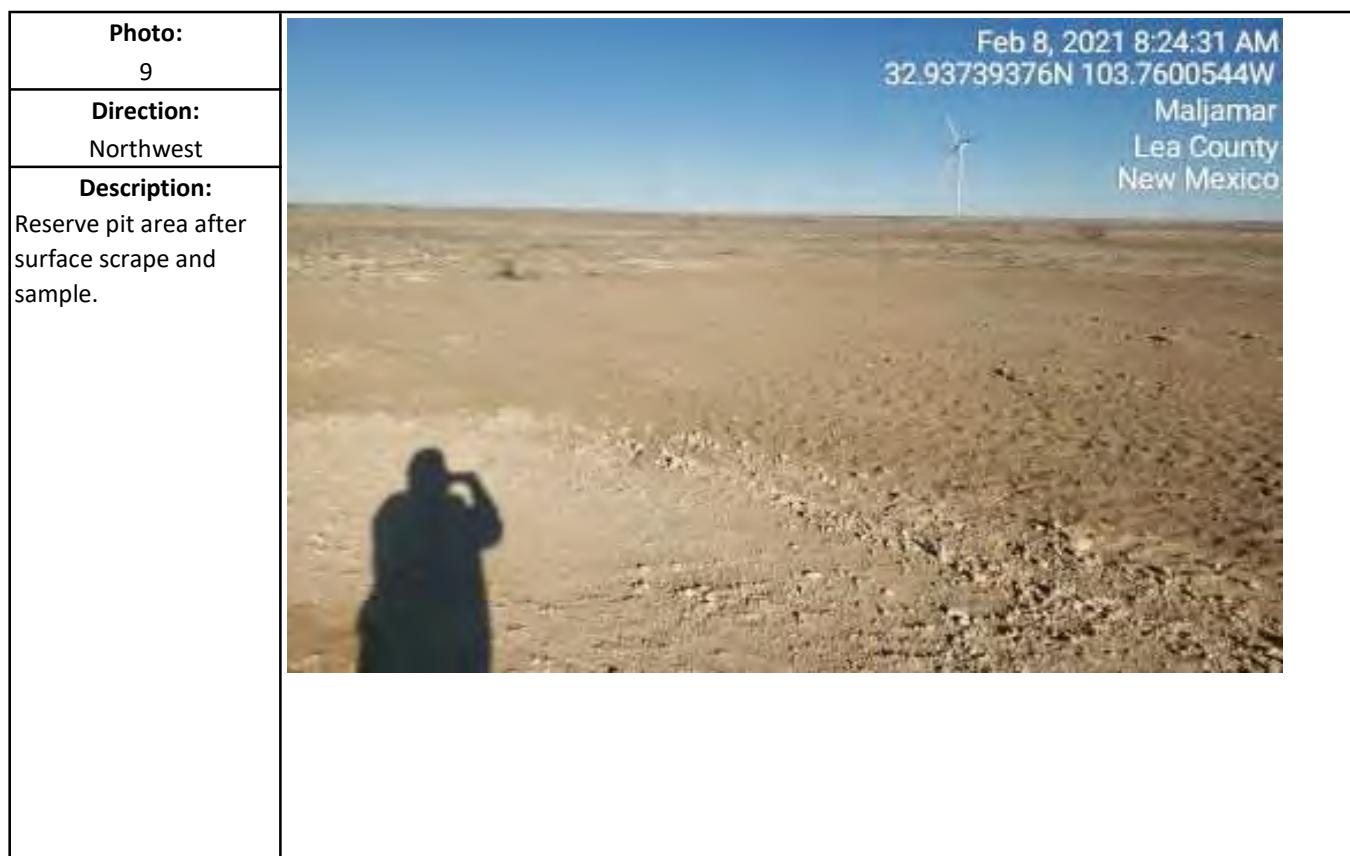


Photographs

Photo: 7	
Direction: Northeast	
Description: View directly above borehole drilled on location	

Photo: 8	
Direction: West	
Description: View over borehole location after plugging	

Photographs



Photographs

Photo: 11	 Mar 24, 2021 9:15:24 AM 32.937455N 103.759856W
Direction: West	
Description: Reserve pit area after backfill and seeding.	

Photo: 12	 Mar 24, 2021 9:16:10 AM 32.937360N 103.760208W
Direction: North	
Description: Reserve pit area after backfill and seeding.	

Attachment II

Depth to Groundwater and Well Drilling Information



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 06807	L	LE		1	4	4	09	16S	32E	615356	3644383*	868	290	248	42

Average Depth to Water: **248 feet**

Minimum Depth: **248 feet**

Maximum Depth: **248 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 615926.4

Northing (Y): 3645037.9

Radius: 880

*UTM location was derived from PLSS - see Help

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

6/18/20 11:28 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
L 06807		1 4 4	09	16S	32E	615356	3644383* 

Driller License: 46**Driller Company:** ABBOTT BROTHERS COMPANY**Driller Name:****Drill Start Date:** 07/02/1972**Drill Finish Date:** 07/05/1972**Plug Date:** 10/20/1972**Log File Date:** 07/13/1972**PCW Rcv Date:****Source:** Shallow**Pump Type:****Pipe Discharge Size:****Estimated Yield:****Casing Size:** 7.00**Depth Well:** 290 feet**Depth Water:** 248 feet**Water Bearing Stratifications:****Top Bottom Description**

240 275 Sandstone/Gravel/Conglomerate

280 290 Sandstone/Gravel/Conglomerate

Casing Perforations:**Top Bottom**

225 280

*UTM location was derived from PLSS - see Help

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

3/12/20 1:01 PM

Page 1 of 1

POD SUMMARY - L 06807



USGS Home
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Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater Geographic Area: United States GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list = 325546103460201

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

USGS 325546103460201 16S.32E.09.413212

Lea County, New Mexico
Latitude 32°56'03", Longitude 103°46'10" NAD27
Land-surface elevation 4,331.00 feet above NGVD29
The depth of the well is 290 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data												
Tab-separated data												
Graph of data												
Reselect period												
Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status	
1981-03-30		D	238.20			2		U		U	A	
1986-01-22		D	237.87			2		U		U	A	

Explanation

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

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

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2020-06-18 13:29:51 EDT
0.27 0.25 nadw01





USGS Home
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National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 325636103450601

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 325636103450601 16S.32E.03.344324

Lea County, New Mexico
Latitude 32°56'36", Longitude 103°45'06" NAD27
Land-surface elevation 4,322 feet above NAVD88
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1961-03-15		D	226.15			2	P	U			A
1966-02-15		D	233.19			2	R	U			A
1971-03-23		D	224.91			2	R	U			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status	P	Site was being pumped.
Status	R	Site had been pumped recently.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for USA: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>
Page Contact Information: [USGS Water Data Support Team](#)
Page Last Modified: 2020-06-18 13:29:59 EDT
0.28 0.25 nadww01



John R. D Antonio, Jr., P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 678371
File Nbr: L 15011

Sep. 09, 2020

ANDY RICKARD
GRAND BANKS ENERGY CO
PO BOX 272
MIDLAND, TX 79702

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

* Please be advised, that the NM licensed driller assigned to complete this borehole must be licensed in the use of auger equipment and in monitoring boreholes. Hungry Horse, LLC/Lic #1755 is not currently licensed for this activity.

* If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.

* If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.

* The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.

* This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

A handwritten signature in blue ink, appearing to read "C. Guillen".

Claudia K. Guillen
(575) 622-6521

Enclosure

File No. **L-15011**

NEW MEXICO OFFICE OF THE STATE ENGINEER



WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT



(check applicable box):

For fees, see State Engineer website: <http://www.ose.state.nm.us/>

Purpose:	☐ Pollution Control And/Or Recovery	☐ Ground Source Heat Pump
☐ Exploratory Well (Pump test)	☐ Construction Site/Public Works Dewatering	☐ Other(Describe):
☒ Monitoring Well	☐ Mine Dewatering	

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

☒ Temporary Request - Requested Start Date: 9/1/2020	Requested End Date: 9/30/2020
--	-------------------------------

Plugging Plan of Operations Submitted? ☒ Yes ☐ No

1. APPLICANT(S)

Name: Grand Banks Energy Co.	Name:
Contact or Agent: check here if Agent ☒ Andy Rickard	Contact or Agent: check here if Agent ☐
Mailing Address: P.O. Box 272	Mailing Address:
City: Midland	City:
State: TX Zip Code: 79702	State: Zip Code:
Phone: 432-620-9181 ☐ Home ☐ Cell Phone (Work):	Phone: ☐ Home ☐ Cell Phone (Work):
E-mail (optional): arickard@Cambrianmgmt.com	E-mail (optional):

FOR OSE INTERNAL USE

Application for Permit, Form WR-07, Rev 11/17/16

File No.: L-15011	Trn. No.: 678371	Receipt No.: 2-42474
Trans Description (optional): MON		
Sub-Basin: L	PCW/LOG Due Date: 9/9/2021	

2. WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).
District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

☐ NM State Plane (NAD83) (Feet) ☐ UTM (NAD83) (Meters) ☒ Lat/Long (WGS84) (to the nearest 1/10th of second)
☐ NM West Zone ☐ Zone 12N
☐ NM East Zone ☐ Zone 13N
☐ NM Central Zone

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
BH1 L-15011 POD 1	32.937247	-103.760217	Unit Letter "E", Section 10, T 16S, R 32E

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)
Additional well descriptions are attached: ☐ Yes ☒ No If yes, how many _____

Other description relating well to common landmarks, streets, or other: _____

Well is on land owned by: Bogle LTD Co.

Well Information: **NOTE: If more than one (1) well needs to be described, provide attachment.** Attached? ☐ Yes ☒ No
 If yes, how many _____

Approximate depth of well (feet): 51	Outside diameter of well casing (inches): N/A
Driller Name: Hungry Horse, LLC	Driller License Number: 1755

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

The borehole will be drilled according to NMOCD request as no water wells exist within a half mile radius of a release site. As per NMOCD, drill 51' borehole, wait 72 hours, and check for presence of water. If water is present driller will notify NMOSE and NMOCD for guidance on possibly converting the well to a monitoring well. If no water is present the well will be plugged.

FOR USE INTERNAL USE

Application for Permit, Form WR-07

File No.: L-15011

Trn No.: 6783711

Page 2 of 3

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

Exploratory: ☐ Include a description of any proposed pump test, if applicable.	Pollution Control and/or Recovery: ☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for the pollution control or recovery operation. ☐ The estimated maximum period of time for completion of the operation. ☐ The annual diversion amount. ☐ The annual consumptive use amount. ☐ The maximum amount of water to be diverted and injected for the duration of the operation. ☐ The method and place of discharge ☐ The method of measurement of water produced and discharged ☐ The source of water to be injected. ☐ The method of measurement of water injected. ☐ The characteristics of the aquifer. ☐ The method of determining the resulting annual consumptive use of water and depletion from any related stream system. ☐ Proof of any permit required from the New Mexico Environment Department. ☐ An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	Construction De-Watering: ☐ Include a description of the proposed dewatering operation, ☐ The estimated duration of the operation, ☐ The maximum amount of water to be diverted, ☐ A description of the need for the dewatering operation, and, ☐ A description of how the diverted water will be disposed of.	Mine De-Watering: ☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for mine dewatering. ☐ The estimated maximum period of time for completion of the operation. ☐ The source(s) of the water to be diverted. ☐ The geohydrologic characteristics of the aquifer(s). ☐ The maximum amount of water to be diverted per annum. ☐ The maximum amount of water to be diverted for the duration of the operation. ☐ The quality of the water. ☐ The method of measurement of water diverted. ☐ The recharge of water to the aquifer. ☐ Description of the estimated area of hydrologic effect of the project. ☐ The method and place of discharge. ☐ An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. ☐ A description of the methods employed to estimate effects on surface water rights and underground water rights. ☐ Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
Monitoring: ☒ Include the reason for the monitoring well, and, ☒ The duration of the planned monitoring.		Ground Source Heat Pump: ☐ Include a description of the geothermal heat exchange project, ☐ The number of boreholes for the completed project and required depths. ☐ The time frame for constructing the geothermal heat exchange project, and, ☐ The duration of the project. ☐ Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Andy Rickard

Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief

Andy Rickard
Applicant Signature

Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:

☒ approved

☐ partially approved

☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 9th day of SEPT 20 20, for the State Engineer,

JOHN R. D'ANTONIO JR., P.E.

State Engineer

By: [Signature]
Signature

JUAN HERNANDEZ
Print

Title: WATER RESOURCES MANAGER I
Print



FOR USE INTERNAL USE

Application for Permit, Form WR-07

File No: L-15011

Trm No: 678371

Page 3 of 3

**NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE**

SPECIFIC CONDITIONS OF APPROVAL

- 17-1B Depth of the well shall not exceed the thickness of the Ogallala formation.
- 17-4 No water shall be appropriated and beneficially used under this permit.
- 17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.
- 17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.

Trn Desc: L 15011 POD1

File Number: L 15011

Trn Number: 678371

**NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE**

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- 17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record. The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- 17-Q The State Engineer retains jurisdiction over this permit.
- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.
- LOG The Point of Diversion L 15011 POD1 must be completed and the Well Log filed on or before 09/09/2021.

IT IS THE PERMITTEES RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

Trn Desc: L 15011 POD1

File Number: L 15011

Trn Number: 678371

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

ACTION OF STATE ENGINEER

Notice of Intention Rcvd: Date Rcvd. Corrected:
Formal Application Rcvd: 09/09/2020 Pub. of Notice Ordered:
Date Returned - Correction: Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 09 day of Sep A.D., 2020

John R. D Antonio, Jr., P.E., State Engineer

By:

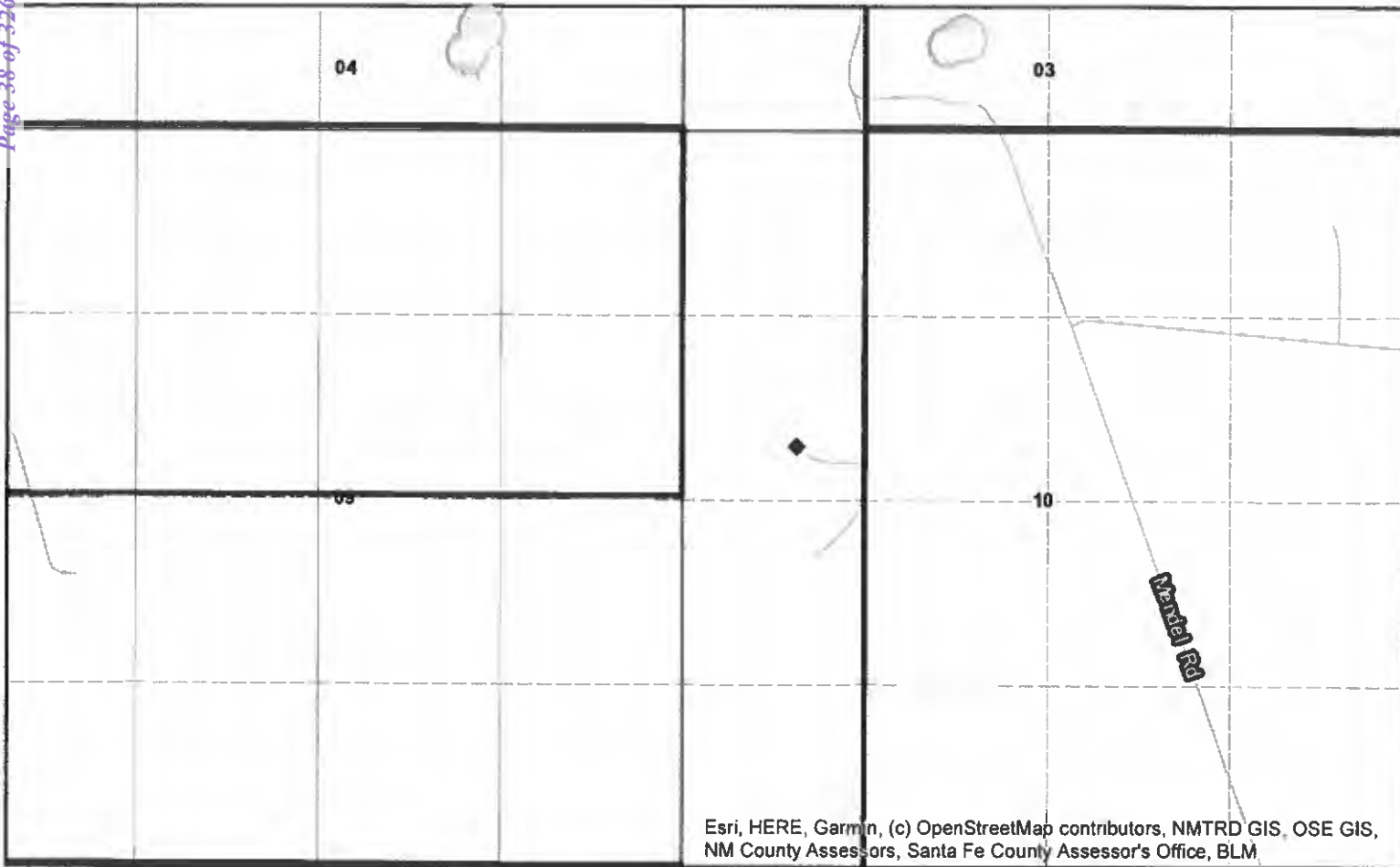
JUAN HERNANDEZ



Trn Desc: L 15011 POD1

File Number: L 15011

Trn Number: 678371



Esri, HERE, Garmin, (c) OpenStreetMap contributors, NMTRD GIS, OSE GIS, NM County Assessors, Santa Fe County Assessor's Office, BLM

Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 615901.874

Northing 3645011.444

State Plane - NAD 83 (f) - Zone E

Easting 717169.850

Northing 705181.595

Degrees Minutes Seconds

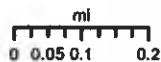
Latitude 32 : 56 : 14.089200

Longitude -103 : 45 : 36.781200

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:18,056



GUILLEN

9/9/2020



Please note: efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that this map accurately represents the source data used in their preparation. However, as a price of error is inherent in all maps, and this map may contain omissions and errors in scale, resolution, accuracy, and/or other information, the user is advised to use the map as a guide only and not as a substitute for a professional survey or other authoritative source of information. These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Lea County

Abstract Area:L

Land Grant:
Not in Land Grant
Restrictions:

NA

PLSS Description

NWSESWNW Qtr of Sec 10 of 016S 032E

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner: BOGLE LTD CO

Address:693 NM HIGHWAY 249 null null
null 88230-

Legal: UPC 4000337910001: Township 16 S Range 32 E
Section 3 249.92 AC BEING LOTS 4-5-12-13 &
W2SW4 "STATE PATENT #4187" "1/96-BOGLE FARMS
INC" NEW LIVESTOCK COUNT FOR 2019UPC

POD Information

Owner: BOGLE LTD CO

File Number: L-15011 POD1

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

Purpose: MON

- ☒ Coord Search Location
- ☐ Chaves County Parcels 2020
- ☐ Lea County Parcels 2020
- ☐ BLM Land Grant
- ☐ PLSSTownship
- ☐ PLSSFirstDiv...
- ☐ PLSSSecond...



STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
District 2 Office, Roswell, NM

John R. D'Antonio Jr., P.E.
State Engineer

1900 West Second Street
Roswell, New Mexico 88201
(575) 622-6521
FAX: (575) 623-8559

Cambrian Mgmt

SEP 24 2020

Received

September 21, 2020

Grand Banks Energy Co.
c/o Andy Rickard
PO Box 272
Midland, Texas 79702

RE: *Well Plugging Plan of Operations for L-15011-POD1*

Greetings:

Enclosed is your copy of Well Plugging Plan of Operations for the above referenced project, which has been approved subject to the attached Specific Conditions of Approval. The following conditions of approval have been developed to ensure compliance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 13, 2017, by the State Engineer.

Aggrievial of this permit, or any of the conditions of approval therein, suspends the permit. No plugging operations shall occur while a permit is aggrieved.

Sincerely,

A handwritten signature in blue ink, appearing to read "Chris Angel", written over a horizontal line.

Christopher Angel, PG
Water Resources Professional II
Water Resource Allocation Program

encl



WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP: ☐ Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: BH1 L-15011
 Name of well owner: Grand Banks Energy Co.
 Mailing address: P.O. Box 272 County: Midland
 City: Midland State: TX Zip code: 79702
 Phone number: 432-620-9181 E-mail: arickard@cambridgemanagement.com

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: Hungry Horse, LLC
 New Mexico Well Driller License No.: 1755 Expiration Date: 10/14/2021

IV. WELL INFORMATION: ☐ Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

- 1) GPS Well Location: Latitude: 32 deg. 56 min. 14.09 sec
 Longitude: 103 deg. 45 min. 36.78 sec, NAD 83
- 2) Reason(s) for plugging well(s):

No water present
- 3) Was well used for any type of monitoring program? Yes If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.
- 4) Does the well tap brackish, saline, or otherwise poor quality water? No If yes, provide additional detail, including analytical results and/or laboratory report(s): N/A
- 5) Static water level: >100 feet below land surface / feet above land surface (circle one)
- 6) Depth of the well: 51 feet

- 7) Inside diameter of innermost casing: N/A inches.
- 8) Casing material: N/A
- 9) The well was constructed with:
☐ an open-hole production interval, state the open interval: N/A
☐ a well screen or perforated pipe, state the screened interval(s): N/A
- 10) What annular interval surrounding the artesian casing of this well is cement-grouted? N/A
- 11) Was the well built with surface casing? No If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? N/A If yes, please describe:
N/A
- 12) Has all pumping equipment and associated piping been removed from the well? N/A If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING: ☐ If plugging method differs between multiple wells on same site, a separate form must be completed for each method.

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

- 1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:
The borehole will be grouted using a tremie pipe, from the bottom to the surface.
- 2) Will well head be cut-off below land surface after plugging? N/A

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

- 1) For plugging intervals that employ cement grout, complete and attach Table A.
- 2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
- 3) Theoretical volume of grout required to plug the well to land surface: 3 bags
- 4) Type of Cement proposed: Bentonite Pellets
- 5) Proposed cement grout mix: N/A gallons of water per 94 pound sack of Portland cement.
- 6) Will the grout be: batch-mixed and delivered to the site
X mixed on site

- 7) Grout additives requested, and percent by dry weight relative to cement:

N/A

- 8) Additional notes and calculations:

N/A

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

72 hours after drilling, Well BH1 (32.937247, -103.760217) will be checked for the presence of water. If water is present the NMOSE and NMOCD will be notified for guidance on possible conversion to monitor well. If no water is present the well will be plugged according to NMOSE Well Plugging Handbook, Appendix A Permit Condition 6E. Within 20 days of well plugging, driller will submit Well Plugging Record WD-11 to NMOSE. The maximum period of time for completion of the operation will be 30 days.

VIII. SIGNATURE:

I, Andy Rickard

say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

Andy Rickard
Signature of Applicant

Aug 27 2020
Date

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

- ☒ Approved subject to the attached conditions.
☐ Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 21 day of September, 2020

John R. D'Antonio Jr. P.E., New Mexico State Engineer

By: *Ch Angel*

Christopher Angel, P.G., Water Resource Professional II



TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)			
Bottom of proposed interval of grout placement (ft bgl)			
Theoretical volume of grout required per interval (gallons)			
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			
Mixed on-site or batch-mixed and delivered?			
Grout additive 1 requested			
Additive 1 percent by dry weight relative to cement			
Grout additive 2 requested			
Additive 2 percent by dry weight relative to cement			

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TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)	10	0	
Bottom of proposed sealant or grout placement (ft bgl)	51	10	
Theoretical volume of sealant required per interval (gallons)	N/A	N/A	
Proposed abandonment sealant (manufacturer and trade name)	native soil	bentonite	

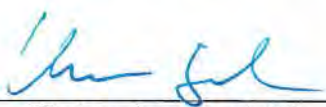
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Specific Conditions of L-15011-POD1

1. If groundwater is not encountered the borehole shall be filled with bentonite pellets from the bottom to the surface. Bentonite pellets shall be hydrated with 5 gallons of water after each 50 pound sack is placed in the borehole.
2. If groundwater is encountered and conversion to a monitor well is desired, the OSE District II office shall be contacted prior to completing the well as a monitor well.
3. Bentonite pellets shall be tremied from the bottom up.
4. A completed Plugging Record form shall be submitted no later than 30 days after completion of the plugging.
5. Before any attempts are made to plug this well, the O.S.E. District II Office shall be notified 48 hours in advance of the anticipated schedule for plugging, so that an O.S.E. representative has the opportunity to witness the procedures, if deemed necessary.
6. Any deviation from this plan must obtain an approved variance from this office prior to implementation.
7. Aggrievial of this permit, or any of the conditions of approval therein, suspends the permit. No plugging operations shall occur while a permit is aggrieved.

Witness my hand and seal this 21th day of September A.D., 2020

John R. D'Antonio Jr., P.E., State Engineer

By: 
Christopher Angel, PG
Groundwater Resources Professional II





WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO (WELL NO) POD1		WELL TAG ID NO		OSE FILE NO(S) L-15011			
	WELL OWNER NAME(S) Grand Banks Energy Co				PHONE (OPTIONAL) 432-620-9181			
	WELL OWNER MAILING ADDRESS PO Box 272				CITY Midland	STATE TX	ZIP 79702	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 56	SECONDS 14.09 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 103	45	36.78 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Unit Letter "E", Section 10, T 16S, R 32E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1755		NAME OF LICENSED DRILLER John Norris			NAME OF WELL DRILLING COMPANY Hungry Horse, LLC		
	DRILLING STARTED 10/8/2020		DRILLING ENDED 10/8/2020		DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT) 51	DEPTH WATER FIRST ENCOUNTERED (FT) NA	
	COMPLETED WELL IS: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: ☒ AIR ☐ MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: ☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
				No Casing				
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	1	51	6	Bentonite Chips	67.5	tremie		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	15	15	Rock	Y ✓ N	
	15	40	25	Sand	Y ✓ N	
	40	51	11	Sand/Rock Mix	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ☐ PUMP ☐ AIR LIFT ☐ BAILER ☒ OTHER – SPECIFY: Not tested					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
		MISCELLANEOUS INFORMATION: The borehole was drilled according to NMOCD request as no water wells exist within a half-mile radius of a release site. As per NMOCD, drill a 51' borehole, wait 72 hours, then gauge for presence of water. No water was present so borehole was plugged.
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Dean Parent	

6. SIGNATURE
BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING
John Norris 10/16/2020 SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO	POD NO	TRN NO	
LOCATION		WELL TAG ID NO	PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: L-15011 POD1

Well owner: Grand Banks Energy Co

Phone No.: 432-620-9181

Mailing address: PO Box 272

City: Midland

State: TX

Zip code: 79702

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Hungry Horse, LLC
- 2) New Mexico Well Driller License No.: 1755 Expiration Date: 10/14/2021
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): John Norris
- 4) Date well plugging began: 10/15/2020 Date well plugging concluded: 10/15/2020
- 5) GPS Well Location: Latitude: 32 deg, 56 min, 14.09 sec
Longitude: 103 deg, 45 min, 36.78 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 51 ft below ground level (bgl),
by the following manner: measuring tape
- 7) Static water level measured at initiation of plugging: NA ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 9/21/2020
- 9) Were all plugging activities consistent with an approved plugging plan? yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

<u>Depth</u> (ft bgl)	<u>Plugging Material Used</u> (include any additives used)	<u>Volume of Material Placed</u> (gallons)	<u>Theoretical Volume of Borehole/ Casing</u> (gallons)	<u>Placement Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
51'	Bentonite pellets	504.9		tremie pipe Top Ju	

MULTIPLY	BY	AND OBTAIN
cubic feet x 7.4805	=	gallons
cubic yards x 201.97	=	gallons

III. SIGNATURE:

I, John Norris, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.



Signature of Well Driller

10/16/2020

Date

Attachment III

Field Data and Seed Tag

Grand Banks Energy Rancho Verde 10 state well #00:
4.2.20

1st 1 surf $24 \times 20 = 480$ 9:44

2 $16 \times 20 = 320$ 9:52

④ $12 \times 20 = 240$ 10:01

1st 2 surf $32 \times 20 = 640$ 10:12

2 $20 \times 20 = 400$ 10:21

④ $24 \times 20 = 480$ 10:44

1st 3 surf $20 \times 20 = 400$ 10:52

2 $24 \times 20 = 480$ 11:02

④ $20 \times 20 = 400$ 12:27

1st 4 surf $16 \times 20 = 320$ 12:40

2 $24 \times 20 = 480$ 12:46

④ $12 \times 20 = 240$ 1:05

SPS surf $68 \times 20 = 1360$ 1:21

2 $108 \times 20 = 2160$ 1:26

4 $248 \times 20 = 4960$ 1:46

6 $320 \times 20 = 6400$ 2:07

8 $240 \times 20 = 4800$ 2:55

As deep as we could go with the track loc

Grand Banks Energy Verde 10 State well #002
4.6.20

* SP5 10 64 x 20 = 1280 9:03

(12) 76 x 20 = 1520 10:33 Stopped to to hard rock with Fr

SP6 surf 52 x 20 = 1040 TPH 2:03

2 84 x 20 = 1680 TPH 2:10

4 152 x 20 = 3040 TPH 2:17

LAB (6) 196 x 20 = 3920 2:28

Nat sent to Lab

SP7 surf 24 x 20 = 480 TPH 1:22

Deeper 2 20 x 20 = 400 TPH 1:28

4 20 x 20 = 400 TPH ~~1:40~~

6 24 x 20 = 480 TPH 2:00

8

10

12

SP8 surf 24 x 20 = 480 TPH 12:40

Deeper 2 16 x 20 = 320 TPH 12:46

4 16 x 20 = 320 TPH 1:04

6 16 x 20 = 320 TPH 1:17

8

10

406.20

SP9_{surf} 39 x 20 = 720 TPH 12:02
 Deeper 2 32 x 20 = 640 TPH 12:10
 4 84 x 20 = 1680 TPH 12:22
 6 64 x 20 = 1280 TPH 12:31
 8
 10
 12
 14
 16

SP10_{surf} 20 x 20 = 400 TPH 9:31
 2 28 x 20 = 560 TPH 9:19
 4 24 x 20 = 480 TPH 9:33
 6 20 x 20 = 400 TPH 9:45
 8 24 x 20 = 480 TPH
 LAB (10) 16 x 20 = 320 11:57

SP11_{surf} 24 x 20 = 480 TPH 8:33
 2 20 x 20 = 480 TPH 8:45
 LAB (4) 16 x 20 = 320 8:53

SP12_{surf} 36 x 20 = 720 TPH 10:40
 2 24 x 20 = 240 TPH 10:47

4.6.20

SP126 20x20=400 TPH 11:04

8 16x20=320 TPH 2:30

LAB (10) 16x20=320 2:35

SP1350F 28x20=560 TPH 9:54

2 20x20=400 TPH 10:05

4 28x20=560 TPH 10:16

6 20x20=400 TPH 10:25

8 20x20=400 TPH 12:58

10 16x20=320 TPH 1:19

12 16x20=320 TPH 1:39

14 20x20=400 TPH 1:48

LAB (16) 12x20=240 1:54

SP1450F 16x20=320 TPH 11:15

Deeper 2 20x20=400 TPH 11:22

4 24x20=480 TPH 11:34

6

8

Sarkis Energy Rancho Verde State Well #2 3/7/21

SP15-Surf

2'
4'
6'
8'
10'
12'
14'

$12 \times 20 = 240$

$12 \times 20 = 240$

$12 \times 20 = 240$

7:37

7:43

2:14

TOP Soil

Top/Cal

Caliche

16-Surf

2'
4'

$12 \times 20 = 240$

$8 \times 20 = 160$

$8 \times 20 = 160$

7:50

7:55

8:03

TOP Soil

TOP Soil

Caliche

17-Surf

2'
4'

$20 \times 20 = 400$

$16 \times 20 = 320$

$16 \times 20 = 320$

8:10

8:16

8:27

TOP Soil

TOP/Cal

TOP/Cal

B-Surf

2'
4'
6'

$28 \times 20 = 560$

$36 \times 20 = 720$

$28 \times 20 =$

$24 \times 20 = 480$

8:39

8:48

12:34

1:20

TPH

TOP Soil

TOP Soil

Caliche

A-Surf

2'
4'

$12 \times 20 = 240$

$12 \times 20 = 240$

$8 \times 20 = 160$

9:20

9:33

9:40

TOP Soil

TOP Soil

Caliche

20-Surf

2'
4'
6'
8'

$20 \times 20 = 400$

$16 \times 20 = 320$

$56 \times 20 = 1120$

$32 \times 20 = 640$

$24 \times 20 = 480$

9:52

10:01

10:12

10:26

10:42

TPH

TPH

TPH

TOP Soil

TOP Soil

TOP Soil

Caliche

Caliche

SP21-Surf

2'

4'

$16 \times 20 = 320$

$12 \times 20 = 240$

$12 \times 20 = 240$

10:49

Topsoil

10:57

Topsoil

11:04 TPH

Topsoil

SP22-Surf

2'

4'

6'

8'

$20 \times 20 = 400$

$32 \times 20 = 640$

$12 \times 20 = 240$

$12 \times 20 = 240$

$12 \times 20 = 240$

11:20 TPH

Topsoil

11:27 TPH

Topsoil

11:34 TPH

Topsoil

11:45 TPH

Caliche

12:05 TPH

Caliche

SP9-8'

10'

12'

14'

$40 \times 20 = 800$

$80 \times 20 = 1600$

$32 \times 20 = 640$

$32 \times 20 = 640$

8:35 TPH

Caliche

1:42 TPH

Caliche

2:00

Caliche

2:05

SP8-8'

10'

12'

$20 \times 20 = 400$

$\times 20 =$

$\times 20 =$

2:30

TPH Caliche

8

SW7-Surf
1'
2'

$$16 \times 20 = 320$$
$$12 \times 20 = 240$$
$$8 \times 20 = 160$$

1:05
1:09
1:10SW8-Surf
1'
2'

$$20 \times 20 = 400$$
$$20 \times 20 = 400$$
$$16 \times 20 = 320$$

1:15
1:17
1:20SW9-Surf
1'
2'

$$16 \times 20 = 320$$
$$16 \times 20 = 320$$
$$8 \times 20 = 160$$

1:30
1:33
1:34SW10-Surf
1'
2'

$$12 \times 20 = 240$$
$$12 \times 20 = 240$$
$$8 \times 20 = 160$$

1:40
1:43
1:47SW11-Surf
1'
2'

$$12 \times 20 = 240$$
$$12 \times 20 = 240$$
$$8 \times 20 = 160$$

1:51
1:53
1:57

26 Grand Banks Ranches Verde 10 State Well #2

SP8-10' ³⁶ ~~720~~ X 20 = 720 TPH 8:33
 • Cant go Deeper truckhoe Could Not go any more

SP7-8'
 10' 16 X 20 = 320 9:20
 48 X 20 = 960 10:00

SW1-Surf
 1' 16 X 20 = 320 9:05
 2' 12 X 20 = 240 9:07
 12 X 20 = 240 9:09

SW2-Surf
 1' 16 X 20 = 320 9:25
 2' 16 X 20 = 320 9:28
 12 X 20 = 240 9:30

SW3-Surf
 1' 16 X 20 = 320 9:33
 2' 12 X 20 = 240 9:35
 8 X 20 = 160 9:37

SW4-Surf
 1' 16 X 20 = 320 10:15
 2' 16 X 20 = 320 10:18
 8 X 20 = 160 10:20

SPH-6'
 8' 16 X 20 = 320 10:53
 10' 12 X 20 = 240 11:10
 8 X 20 = 160 11:50

SW5-Surf
 1' 16 X 20 = 320 10:21
 2' 16 X 20 = 320 10:23
 12 X 20 = 240 10:27

SW6-Surf
 1' 16 X 20 = 320 10:40
 2' 12 X 20 = 240 10:43
 8 X 20 = 160 10:48

Gravel Danks Kancho Verde 10 Statewell #002 4/9/2020 29

SP23-Surf

2'

4'

6'

8'

10'

12'

14'

16'

18' DO Not use

$$12 \times 20 = 240$$

$$24 \times 20 = 480$$

$$8 \times 20 = 160$$

$$8 \times 20 = 160$$

$$12 \times 20 = 240$$

$$20 \times 20 = 400$$

$$20 \times 20 = 400$$

$$20 \times 20 = 400$$

$$40 \times 20 = 800$$

$$20 \times 20 = 400$$

TPH

TPH

TPH

TPH

TPH

TPH

TPH?

TPH?

8:56

9:04

9:20

9:28

9:40

9:53

10:06

10:40

11:00

11:14

SP24-Surf

2'

4'

6'

$$12 \times 20 = 240$$

$$12 \times 20 = 240$$

$$24 \times 20 = 480$$

$$20 \times 20 = 400$$

11:49

11:55

1:10

1:19

28

SW7-Surf
1'
2'

$$16 \times 20 = 320$$
$$12 \times 20 = 240$$
$$8 \times 20 = 160$$

1:05
1:09
1:10SW8-Surf
1'
2'

$$20 \times 20 = 400$$
$$20 \times 20 = 400$$
$$16 \times 20 = 320$$

1:15
1:17
1:20SW9-Surf
1'
2'

$$16 \times 20 = 320$$
$$16 \times 20 = 320$$
$$8 \times 20 = 160$$

1:30
1:33
1:34SW10-Surf
1'
2'

$$12 \times 20 = 240$$
$$12 \times 20 = 240$$
$$8 \times 20 = 160$$

1:40
1:43
1:47SW11-Surf
1'
2'

$$12 \times 20 = 240$$
$$12 \times 20 = 240$$
$$8 \times 20 = 160$$

1:51
1:53
1:57

30 Grand Banks Rancho Verde 10 Statewell #002 4/13/21

SP24 - 8'	$40 \times 20 = 800$	TPH	10:43
10'	$28 \times 20 = 560$	TPH	10:51
12'	$28 \times 20 = 560$	TPH?	11:03
14'	$36 \times 20 = 720$		11:17
16'	$36 \times 20 = 720$	TPH	11:38
18'	$28 \times 20 = 560$		12:20
20'	$40 \times 20 = 800$		12:49
22'	$40 \times 20 = 800$		1:02

• Cant go Deeper Maxed out Jack Hoe

SP25 - Surf	$12 \times 20 = 240$	1:28
2'	$24 \times 20 = 480$	1:38
4'	$12 \times 20 = 240$	2:05

Grand Banks Rancho Verde 10 SW #2 4/14/21

SP/SWDataTime

SP25-Surf

2'

4'

6'

8'

10'

$16 \times 20 = 320$

$28 \times 20 = 560$

$20 \times 20 = 400$

$36 \times 20 = 720$

$16 \times 20 = 320$

$8 \times 20 = 160$

TPH

TPH

8:11

8:20

8:38

~~9:03~~ 8:55

9:03

9:16

Lab

SP27-Surf

2'

4'

$16 \times 20 = 320$

$16 \times 20 = 320$

$12 \times 20 = 240$

9:45

10:02

10:27

Lab

SP28-Surf

2'

4'

6'

$24 \times 20 = 480$

$24 \times 20 = 480$

$20 \times 20 = 400$

$16 \times 20 = 320$

TPH

TPH

10:55

11:03

12:04

12:26

Lab

SP29-Surf

2'

4'

6'

8'

$12 \times 20 = 240$

$24 \times 20 = 480$

$12 \times 20 = 240$

$12 \times 20 = 240$

$8 \times 20 = 160$

TPH

TPH

12:50

12:59

1:15

1:27

1:40

Lab

SP30-Surf

2'

4'

6'

8'

10'

12'

$20 \times 20 = 400$

$16 \times 20 = 320$

$12 \times 20 = 240$

$12 \times 20 = 240$

$8 \times 20 = 160$

$12 \times 20 = 240$

$12 \times 20 = 240$

TPH

TPH

TPH

TPH

TPH

2:06

2:15

2:35

2:38

2:39

2:45

2:58

Lab?

32 Gravel Banks Ranches Ureole 10 SW #002 4/15/21

SP 30-14'	12 x 20 = 240	TPH	8:11	
16'	12 x 20 = 240		8:26	
18'	8 x 20 = 160		8:44	Lab

SP31-Surf	20 x 20 = 400	TPH	9:15	
2'	12 x 20 = 240	TPH	9:18	
4'	12 x 20 = 240	TPH	9:55	
6'	16 x 20 = 320	TPH	10:15	
8'	16 x 20 = 320	TPH	10:20	
10'	12 x 20 = 240	TPH	10:36	
12'	12 x 20 = 240	TPH	11:30	
13'	8 x 20 = 160	TPH	2:13	Lab

• Cant go Deeper to Hard for Tracker Dig through

Bamert Seed Company Inc.

1897 CR 1018 Muleshoe, TX 79347

(800) 262-9892

Permit # TX00905

Custom Blend pd cc 42132221689

Lot/Sales # SO-70533

Kind & Variety	Pure Seed	Germ	Dormant	Hard Seed	Origin
Gramma Blue, "Hachita" (Bouteloua gracilis)	50.08%	98.00%	0.00%	0.00%	TX
Gramma, Sidecoats "El Reno" (Bouteloua curtipendula)	33.12%	98.00%	0.00%	0.00%	TX

Purity: 83.20% Inert Matter: 16.74% Other Crop Seed: 0.02% Weed Seed: 0.04%

Noxious Weed Seed Per Lb. Test Date: 07/2020 Net Wt: 40 lbs

Attachment IV

Laboratory Analytical Reports



Analytical Report

Report Summary

Client: Grand Banks

Samples Received: 4/6/2020

Job Number: 19054-0003

Work Order: P004014

Project Name/Location: Rancho Verde 10 State
#002

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light pink rectangular background.

Date: 4/8/20

Walter Hinchman, Laboratory Director

Supplement to analytical report generated on: 4/7/20 12:03 pm



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Grand Banks
PO Box 1058
Hobbs NM, 88240

Project Name: Rancho Verde 10 State #002
Project Number: 19054-0003
Project Manager: Natalie Gladden

Reported:
04/08/20 09:53

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1-4'	P004014-01A	Soil	04/02/20	04/06/20	Glass Jar, 4 oz.
SP2-4'	P004014-02A	Soil	04/02/20	04/06/20	Glass Jar, 4 oz.
SP3-4'	P004014-03A	Soil	04/02/20	04/06/20	Glass Jar, 4 oz.
SP4-4'	P004014-04A	Soil	04/02/20	04/06/20	Glass Jar, 4 oz.
SP5-8'	P004014-05A	Soil	04/02/20	04/06/20	Glass Jar, 4 oz.

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Grand Banks	Project Name:	Rancho Verde 10 State #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/08/20 09:53

SP1-4'
P004014-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	2015001	04/06/20	04/06/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015002	04/06/20	04/06/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015002	04/06/20	04/06/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		75.8 %		50-200	2015002	04/06/20	04/06/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.6 %		50-150	2015001	04/06/20	04/06/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2015003	04/06/20	04/06/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 State #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/08/20 09:53

SP2-4'
P004014-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %		50-150	2015001	04/06/20	04/06/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015002	04/06/20	04/06/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015002	04/06/20	04/06/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		82.6 %		50-200	2015002	04/06/20	04/06/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.0 %		50-150	2015001	04/06/20	04/06/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	260	20.0	mg/kg	1	2015003	04/06/20	04/06/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 State #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/08/20 09:53

SP3-4'
P004014-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %		50-150	2015001	04/06/20	04/06/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015002	04/06/20	04/06/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015002	04/06/20	04/06/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		86.3 %		50-200	2015002	04/06/20	04/06/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.5 %		50-150	2015001	04/06/20	04/06/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	210	20.0	mg/kg	1	2015003	04/06/20	04/06/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 State #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/08/20 09:53

SP4-4'
P004014-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %		50-150	2015001	04/06/20	04/06/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	64.0	25.0	mg/kg	1	2015002	04/06/20	04/06/20	EPA 8015D	
Oil Range Organics (C28-C40)	54.4	50.0	mg/kg	1	2015002	04/06/20	04/06/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		99.0 %		50-200	2015002	04/06/20	04/06/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.5 %		50-150	2015001	04/06/20	04/06/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	39.9	20.0	mg/kg	1	2015003	04/06/20	04/06/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 State #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/08/20 09:53

SP5-8'
P004014-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Ethylbenzene	0.0726	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
p,m-Xylene	0.158	0.0500	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
o-Xylene	0.0353	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Total Xylenes	0.194	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>109 %</i>		<i>50-150</i>	<i>2015001</i>	<i>04/06/20</i>	<i>04/06/20</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	1540	125	mg/kg	5	2015002	04/06/20	04/06/20	EPA 8015D	
Oil Range Organics (C28-C40)	694	250	mg/kg	5	2015002	04/06/20	04/06/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		<i>108 %</i>		<i>50-200</i>	<i>2015002</i>	<i>04/06/20</i>	<i>04/06/20</i>	<i>EPA 8015D</i>	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>89.7 %</i>		<i>50-150</i>	<i>2015001</i>	<i>04/06/20</i>	<i>04/06/20</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	4870	100	mg/kg	5	2015003	04/06/20	04/06/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 State #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/08/20 09:53

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2015001 - Purge and Trap EPA 5030A

Blank (2015001-BLK1)

Prepared: 04/06/20 0 Analyzed: 04/06/20 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.69		"	8.00		109	50-150			

LCS (2015001-BS1)

Prepared: 04/06/20 0 Analyzed: 04/06/20 1

Benzene	4.52	0.0250	mg/kg	5.00		90.3	70-130			
Toluene	4.62	0.0250	"	5.00		92.5	70-130			
Ethylbenzene	4.66	0.0250	"	5.00		93.2	70-130			
p,m-Xylene	9.33	0.0500	"	10.0		93.3	70-130			
o-Xylene	4.71	0.0250	"	5.00		94.3	70-130			
Total Xylenes	14.0	0.0250	"	15.0		93.6	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.50		"	8.00		106	50-150			

Matrix Spike (2015001-MS1)

Source: P004013-01

Prepared: 04/06/20 0 Analyzed: 04/06/20 1

Benzene	4.74	0.0250	mg/kg	5.00	ND	94.7	54.3-133			
Toluene	4.85	0.0250	"	5.00	ND	97.1	61.4-130			
Ethylbenzene	4.89	0.0250	"	5.00	ND	97.9	61.4-133			
p,m-Xylene	9.78	0.0500	"	10.0	ND	97.8	63.3-131			
o-Xylene	4.92	0.0250	"	5.00	ND	98.4	63.3-131			
Total Xylenes	14.7	0.0250	"	15.0	ND	98.0	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.69		"	8.00		109	50-150			

Matrix Spike Dup (2015001-MSD1)

Source: P004013-01

Prepared: 04/06/20 0 Analyzed: 04/06/20 1

Benzene	4.74	0.0250	mg/kg	5.00	ND	94.7	54.3-133	0.0243	20	
Toluene	4.83	0.0250	"	5.00	ND	96.7	61.4-130	0.422	20	
Ethylbenzene	4.87	0.0250	"	5.00	ND	97.4	61.4-133	0.495	20	
p,m-Xylene	9.72	0.0500	"	10.0	ND	97.2	63.3-131	0.591	20	
o-Xylene	4.90	0.0250	"	5.00	ND	97.9	63.3-131	0.430	20	
Total Xylenes	14.6	0.0250	"	15.0	ND	97.5	0-200	0.537	200	
Surrogate: 4-Bromochlorobenzene-PID	8.44		"	8.00		106	50-150			

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Grand Banks	Project Name:	Rancho Verde 10 State #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/08/20 09:53

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2015002 - DRO Extraction EPA 3570

Blank (2015002-BLK1)

Prepared: 04/06/20 0 Analyzed: 04/06/20 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	46.4		"	50.0		92.8	50-200			

LCS (2015002-BS1)

Prepared: 04/06/20 0 Analyzed: 04/06/20 1

Diesel Range Organics (C10-C28)	411	25.0	mg/kg	500		82.3	38-132			
Surrogate: n-Nonane	46.4		"	50.0		92.8	50-200			

Matrix Spike (2015002-MS1)

Source: P004013-01

Prepared: 04/06/20 0 Analyzed: 04/06/20 1

Diesel Range Organics (C10-C28)	438	25.0	mg/kg	500	ND	87.6	38-132			
Surrogate: n-Nonane	44.3		"	50.0		88.6	50-200			

Matrix Spike Dup (2015002-MSD1)

Source: P004013-01

Prepared: 04/06/20 0 Analyzed: 04/06/20 1

Diesel Range Organics (C10-C28)	437	25.0	mg/kg	500	ND	87.3	38-132	0.278	20	
Surrogate: n-Nonane	46.4		"	50.0		92.9	50-200			

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Grand Banks	Project Name:	Rancho Verde 10 State #002	Reported: 04/08/20 09:53
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2015001 - Purge and Trap EPA 5030A

Blank (2015001-BLK1)

Prepared: 04/06/20 0 Analyzed: 04/06/20 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		"	8.00		93.0	50-150			

LCS (2015001-BS2)

Prepared: 04/06/20 0 Analyzed: 04/06/20 1

Gasoline Range Organics (C6-C10)	45.3	20.0	mg/kg	50.0		90.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		"	8.00		91.8	50-150			

Matrix Spike (2015001-MS2)

Source: P004013-01

Prepared: 04/06/20 0 Analyzed: 04/06/20 1

Gasoline Range Organics (C6-C10)	46.9	20.0	mg/kg	50.0	ND	93.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		"	8.00		93.8	50-150			

Matrix Spike Dup (2015001-MSD2)

Source: P004013-01

Prepared: 04/06/20 0 Analyzed: 04/06/20 1

Gasoline Range Organics (C6-C10)	46.5	20.0	mg/kg	50.0	ND	93.1	70-130	0.794	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		"	8.00		93.9	50-150			

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Grand Banks	Project Name:	Rancho Verde 10 State #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/08/20 09:53

Anions by 300.0/9056A - Quality Control**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2015003 - Anion Extraction EPA 300.0/9056A**Blank (2015003-BLK1)**

Prepared: 04/06/20 0 Analyzed: 04/06/20 1

Chloride	ND	20.0	mg/kg							
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LCS (2015003-BS1)

Prepared: 04/06/20 0 Analyzed: 04/06/20 1

Chloride	253	20.0	mg/kg	250		101	90-110			
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Matrix Spike (2015003-MS1)**Source: P004013-01**

Prepared: 04/06/20 0 Analyzed: 04/06/20 1

Chloride	596	20.0	mg/kg	250	295	120	80-120			
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Matrix Spike Dup (2015003-MSD1)**Source: P004013-01**

Prepared: 04/06/20 0 Analyzed: 04/06/20 1

Chloride	607	20.0	mg/kg	250	295	125	80-120	1.75	20	M2
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QC Summary Report**Comment:**

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Grand Banks	Project Name:	Rancho Verde 10 State #002	Reported: 04/08/20 09:53
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Natalie Gladden	

Notes and Definitions

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Analytical Report

Report Summary

Client: Grand Banks

Samples Received: 4/9/2020

Job Number: 19054-0003

Work Order: P004025

Project Name/Location: Rancho Verde State Well
#2

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light pink rectangular background.

Date: 4/10/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Grand Banks
PO Box 1058
Hobbs NM, 88240

Project Name: Rancho Verde State Well #2
Project Number: 19054-0003
Project Manager: Caleb Pilcher

Reported:
04/10/20 16:04

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP15-4'	P004025-01A	Soil	04/07/20	04/09/20	Glass Jar, 4 oz.
SP16-4'	P004025-02A	Soil	04/07/20	04/09/20	Glass Jar, 4 oz.
SP17-4'	P004025-03A	Soil	04/07/20	04/09/20	Glass Jar, 4 oz.
SP18-6'	P004025-04A	Soil	04/07/20	04/09/20	Glass Jar, 4 oz.
SP19-4'	P004025-05A	Soil	04/07/20	04/09/20	Glass Jar, 4 oz.
SP20-8'	P004025-06A	Soil	04/07/20	04/09/20	Glass Jar, 4 oz.
SP21-4'	P004025-07A	Soil	04/07/20	04/09/20	Glass Jar, 4 oz.
SP22-8'	P004025-08A	Soil	04/07/20	04/09/20	Glass Jar, 4 oz.
SP9-14'	P004025-09A	Soil	04/07/20	04/09/20	Glass Jar, 4 oz.
SP5-12'	P004025-10A	Soil	04/06/20	04/09/20	Glass Jar, 4 oz.
SP10-10'	P004025-11A	Soil	04/06/20	04/09/20	Glass Jar, 4 oz.
SP11-4'	P004025-12A	Soil	04/06/20	04/09/20	Glass Jar, 4 oz.
SP12-10'	P004025-13A	Soil	04/06/20	04/09/20	Glass Jar, 4 oz.
SP13-16'	P004025-14A	Soil	04/06/20	04/09/20	Glass Jar, 4 oz.
SP6-6'	P004025-15A	Soil	04/06/20	04/09/20	Glass Jar, 4 oz.

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Grand Banks	Project Name:	Rancho Verde State Well #2	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/10/20 16:04

SP15-4'
P004025-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		102 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Toluene-d8		106 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Bromofluorobenzene		96.7 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015011	04/08/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015011	04/08/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		85.0 %		50-200	2015011	04/08/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		102 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Toluene-d8		106 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Bromofluorobenzene		96.7 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2015022	04/09/20	04/09/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde State Well #2	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/10/20 16:04

SP16-4'
P004025-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		95.5 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Toluene-d8		106 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Bromofluorobenzene		97.6 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015011	04/08/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015011	04/08/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		91.6 %		50-200	2015011	04/08/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		95.5 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Toluene-d8		106 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Bromofluorobenzene		97.6 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2015022	04/09/20	04/09/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde State Well #2	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/10/20 16:04

SP17-4'
P004025-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		105 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Toluene-d8		107 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Bromofluorobenzene		99.2 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015011	04/08/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015011	04/08/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		90.7 %		50-200	2015011	04/08/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		105 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Toluene-d8		107 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Bromofluorobenzene		99.2 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	146	20.0	mg/kg	1	2015022	04/09/20	04/09/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde State Well #2	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/10/20 16:04

SP18-6'
P004025-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		101 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Toluene-d8		105 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Bromofluorobenzene		98.1 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015011	04/08/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015011	04/08/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		88.3 %		50-200	2015011	04/08/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		101 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Toluene-d8		105 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Bromofluorobenzene		98.1 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	164	20.0	mg/kg	1	2015022	04/09/20	04/09/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde State Well #2	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/10/20 16:04

SP19-4'
P004025-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		96.2 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Toluene-d8		109 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Bromofluorobenzene		99.4 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	40.9	25.0	mg/kg	1	2015011	04/08/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015011	04/08/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		102 %		50-200	2015011	04/08/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		96.2 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Toluene-d8		109 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Bromofluorobenzene		99.4 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2015022	04/09/20	04/09/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde State Well #2	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/10/20 16:04

SP20-8'
P004025-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		104 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Toluene-d8		107 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Bromofluorobenzene		98.7 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	129	25.0	mg/kg	1	2015011	04/08/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	128	50.0	mg/kg	1	2015011	04/08/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		108 %		50-200	2015011	04/08/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		104 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Toluene-d8		107 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Bromofluorobenzene		98.7 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	240	40.0	mg/kg	2	2015022	04/09/20	04/09/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde State Well #2	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/10/20 16:04

SP21-4'
P004025-07 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.0 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Toluene-d8		104 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Bromofluorobenzene		95.1 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	1390	250	mg/kg	10	2015011	04/08/20	04/10/20	EPA 8015D	
Oil Range Organics (C28-C40)	1750	500	mg/kg	10	2015011	04/08/20	04/10/20	EPA 8015D	
Surrogate: n-Nonane		102 %		50-200	2015011	04/08/20	04/10/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		99.0 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Toluene-d8		104 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Bromofluorobenzene		95.1 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	100	100	mg/kg	5	2015022	04/09/20	04/09/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde State Well #2	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/10/20 16:04

SP22-8'
P004025-08 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		98.3 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Toluene-d8		106 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
Surrogate: Bromofluorobenzene		98.4 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	119	25.0	mg/kg	1	2015011	04/08/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	74.4	50.0	mg/kg	1	2015011	04/08/20	04/09/20	EPA 8015D	
Surrogate: n-Nonane		92.8 %		50-200	2015011	04/08/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		98.3 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Toluene-d8		106 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
Surrogate: Bromofluorobenzene		98.4 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2015022	04/09/20	04/09/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde State Well #2	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/10/20 16:04

SP9-14'
P004025-09 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	0.0521	0.0500	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	0.0521	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>104 %</i>		<i>50-150</i>	<i>2015020</i>	<i>04/09/20</i>	<i>04/09/20</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	575	25.0	mg/kg	1	2015011	04/08/20	04/10/20	EPA 8015D	
Oil Range Organics (C28-C40)	280	50.0	mg/kg	1	2015011	04/08/20	04/10/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		<i>123 %</i>		<i>50-200</i>	<i>2015011</i>	<i>04/08/20</i>	<i>04/10/20</i>	<i>EPA 8015D</i>	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>88.0 %</i>		<i>50-150</i>	<i>2015020</i>	<i>04/09/20</i>	<i>04/09/20</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	298	40.0	mg/kg	2	2015022	04/09/20	04/09/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde State Well #2	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/10/20 16:04

SP5-12'
P004025-10 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %		50-150	2015020	04/09/20	04/09/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	166	25.0	mg/kg	1	2015011	04/08/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	53.1	50.0	mg/kg	1	2015011	04/08/20	04/09/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		112 %		50-200	2015011	04/08/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.3 %		50-150	2015020	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	1420	40.0	mg/kg	2	2015022	04/09/20	04/09/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde State Well #2	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/10/20 16:04

SP10-10'
P004025-11 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %		50-150	2015020	04/09/20	04/09/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015011	04/08/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015011	04/08/20	04/09/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		87.1 %		50-200	2015011	04/08/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.6 %		50-150	2015020	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	96.4	20.0	mg/kg	1	2015022	04/09/20	04/09/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde State Well #2	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/10/20 16:04

SP11-4'
P004025-12 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %		50-150	2015020	04/09/20	04/09/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	154	25.0	mg/kg	1	2015011	04/08/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015011	04/08/20	04/09/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		107 %		50-200	2015011	04/08/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.7 %		50-150	2015020	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	100	mg/kg	5	2015022	04/09/20	04/09/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde State Well #2	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/10/20 16:04

SP12-10'
P004025-13 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %		50-150	2015020	04/09/20	04/09/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	59.9	25.0	mg/kg	1	2015011	04/08/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015011	04/08/20	04/09/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		98.9 %		50-200	2015011	04/08/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.6 %		50-150	2015020	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	131	40.0	mg/kg	2	2015022	04/09/20	04/09/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde State Well #2	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/10/20 16:04

SP13-16'
P004025-14 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %		50-150	2015020	04/09/20	04/09/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2015011	04/08/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2015011	04/08/20	04/09/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		85.7 %		50-200	2015011	04/08/20	04/09/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.3 %		50-150	2015020	04/09/20	04/09/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2015022	04/09/20	04/09/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde State Well #2	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/10/20 16:04

SP6-6'
P004025-15 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
p,m-Xylene	0.0670	0.0500	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
Total Xylenes	0.0670	0.0250	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>106 %</i>		<i>50-150</i>	<i>2015020</i>	<i>04/09/20</i>	<i>04/09/20</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	831	25.0	mg/kg	1	2015011	04/08/20	04/10/20	EPA 8015D	
Oil Range Organics (C28-C40)	445	50.0	mg/kg	1	2015011	04/08/20	04/10/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		<i>107 %</i>		<i>50-200</i>	<i>2015011</i>	<i>04/08/20</i>	<i>04/10/20</i>	<i>EPA 8015D</i>	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2015020	04/09/20	04/09/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>92.2 %</i>		<i>50-150</i>	<i>2015020</i>	<i>04/09/20</i>	<i>04/09/20</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	5550	200	mg/kg	10	2015022	04/09/20	04/09/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde State Well #2	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/10/20 16:04

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2015019 - Purge and Trap EPA 5030A

Blank (2015019-BLK1)

Prepared: 04/09/20 0 Analyzed: 04/09/20 2

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1,2-Dichloroethane-d4	0.512		"	0.500		102	70-130			
Surrogate: Toluene-d8	0.531		"	0.500		106	70-130			
Surrogate: Bromofluorobenzene	0.491		"	0.500		98.2	70-130			

LCS (2015019-BS1)

Prepared: 04/09/20 0 Analyzed: 04/09/20 2

Benzene	2.15	0.0250	mg/kg	2.50		85.9	70-130			
Toluene	2.41	0.0250	"	2.50		96.4	70-130			
Ethylbenzene	2.42	0.0250	"	2.50		97.0	70-130			
p,m-Xylene	4.80	0.0500	"	5.00		95.9	70-130			
o-Xylene	2.40	0.0250	"	2.50		96.1	70-130			
Total Xylenes	7.20	0.0250	"	7.50		96.0	0-200			
Surrogate: 1,2-Dichloroethane-d4	0.490		"	0.500		98.0	70-130			
Surrogate: Toluene-d8	0.543		"	0.500		109	70-130			
Surrogate: Bromofluorobenzene	0.483		"	0.500		96.6	70-130			

Matrix Spike (2015019-MS1)

Source: P004024-01

Prepared: 04/09/20 0 Analyzed: 04/09/20 2

Benzene	2.10	0.0250	mg/kg	2.50	ND	84.1	48-131			
Toluene	2.36	0.0250	"	2.50	ND	94.5	48-130			
Ethylbenzene	2.39	0.0250	"	2.50	ND	95.6	45-135			
p,m-Xylene	4.74	0.0500	"	5.00	ND	94.7	43-135			
o-Xylene	2.36	0.0250	"	2.50	ND	94.5	43-135			
Total Xylenes	7.10	0.0250	"	7.50	ND	94.6	0-200			
Surrogate: 1,2-Dichloroethane-d4	0.495		"	0.500		99.0	70-130			
Surrogate: Toluene-d8	0.531		"	0.500		106	70-130			
Surrogate: Bromofluorobenzene	0.487		"	0.500		97.4	70-130			

Matrix Spike Dup (2015019-MSD1)

Source: P004024-01

Prepared: 04/09/20 0 Analyzed: 04/10/20 0

Benzene	2.30	0.0250	mg/kg	2.50	ND	91.8	48-131	8.82	23	
Toluene	2.62	0.0250	"	2.50	ND	105	48-130	10.4	24	
Ethylbenzene	2.65	0.0250	"	2.50	ND	106	45-135	10.3	27	
p,m-Xylene	5.24	0.0500	"	5.00	ND	105	43-135	10.1	27	
o-Xylene	2.63	0.0250	"	2.50	ND	105	43-135	10.7	27	
Total Xylenes	7.87	0.0250	"	7.50	ND	105	0-200	10.3	200	
Surrogate: 1,2-Dichloroethane-d4	0.505		"	0.500		101	70-130			
Surrogate: Toluene-d8	0.535		"	0.500		107	70-130			
Surrogate: Bromofluorobenzene	0.494		"	0.500		98.7	70-130			

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Grand Banks	Project Name:	Rancho Verde State Well #2	Reported: 04/10/20 16:04
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	

Volatile Organics by EPA 8021 - Quality Control**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2015020 - Purge and Trap EPA 5030A**Blank (2015020-BLK1)**

Prepared: 04/09/20 0 Analyzed: 04/09/20 2

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							

Surrogate: 4-Bromochlorobenzene-PID	8.50		"	8.00		106	50-150			
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LCS (2015020-BS1)

Prepared: 04/09/20 0 Analyzed: 04/09/20 2

Benzene	4.11	0.0250	mg/kg	5.00		82.2	70-130			
Toluene	4.43	0.0250	"	5.00		88.6	70-130			
Ethylbenzene	4.45	0.0250	"	5.00		89.0	70-130			
p,m-Xylene	8.85	0.0500	"	10.0		88.5	70-130			
o-Xylene	4.45	0.0250	"	5.00		88.9	70-130			
Total Xylenes	13.3	0.0250	"	15.0		88.6	0-200			

Surrogate: 4-Bromochlorobenzene-PID	8.64		"	8.00		108	50-150			
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Matrix Spike (2015020-MS1)

Source: P004011-03

Prepared: 04/09/20 0 Analyzed: 04/09/20 2

Benzene	4.57	0.0250	mg/kg	5.00	ND	91.5	54.3-133			
Toluene	4.94	0.0250	"	5.00	ND	98.8	61.4-130			
Ethylbenzene	4.99	0.0250	"	5.00	ND	99.8	61.4-133			
p,m-Xylene	9.91	0.0500	"	10.0	ND	99.1	63.3-131			
o-Xylene	4.95	0.0250	"	5.00	ND	99.1	63.3-131			
Total Xylenes	14.9	0.0250	"	15.0	ND	99.1	0-200			

Surrogate: 4-Bromochlorobenzene-PID	8.71		"	8.00		109	50-150			
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Matrix Spike Dup (2015020-MSD1)

Source: P004011-03

Prepared: 04/09/20 0 Analyzed: 04/10/20 0

Benzene	4.42	0.0250	mg/kg	5.00	ND	88.4	54.3-133	3.41	20	
Toluene	4.76	0.0250	"	5.00	ND	95.2	61.4-130	3.74	20	
Ethylbenzene	4.82	0.0250	"	5.00	ND	96.4	61.4-133	3.45	20	
p,m-Xylene	9.56	0.0500	"	10.0	ND	95.6	63.3-131	3.59	20	
o-Xylene	4.78	0.0250	"	5.00	ND	95.6	63.3-131	3.57	20	
Total Xylenes	14.3	0.0250	"	15.0	ND	95.6	0-200	3.59	200	

Surrogate: 4-Bromochlorobenzene-PID	8.69		"	8.00		109	50-150			
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Grand Banks	Project Name:	Rancho Verde State Well #2	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/10/20 16:04

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2015011 - DRO Extraction EPA 3570

Blank (2015011-BLK1)

Prepared & Analyzed: 04/08/20 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	61.3		"	50.0		123	50-200			

LCS (2015011-BS1)

Prepared & Analyzed: 04/08/20 1

Diesel Range Organics (C10-C28)	530	25.0	mg/kg	500		106	38-132			
Surrogate: n-Nonane	59.5		"	50.0		119	50-200			

Matrix Spike (2015011-MS1)

Source: P004020-01

Prepared & Analyzed: 04/08/20 1

Diesel Range Organics (C10-C28)	521	25.0	mg/kg	500	ND	104	38-132			
Surrogate: n-Nonane	58.6		"	50.0		117	50-200			

Matrix Spike Dup (2015011-MSD1)

Source: P004020-01

Prepared & Analyzed: 04/08/20 1

Diesel Range Organics (C10-C28)	530	25.0	mg/kg	500	ND	106	38-132	1.67	20	
Surrogate: n-Nonane	59.2		"	50.0		118	50-200			

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Grand Banks	Project Name:	Rancho Verde State Well #2	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/10/20 16:04

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2015019 - Purge and Trap EPA 5030A

Blank (2015019-BLK1)

Prepared: 04/09/20 0 Analyzed: 04/09/20 2

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.512		"	0.500		102	70-130			
Surrogate: Toluene-d8	0.531		"	0.500		106	70-130			
Surrogate: Bromofluorobenzene	0.491		"	0.500		98.2	70-130			

LCS (2015019-BS2)

Prepared: 04/09/20 0 Analyzed: 04/09/20 2

Gasoline Range Organics (C6-C10)	52.2	20.0	mg/kg	50.0		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		"	0.500		98.1	70-130			
Surrogate: Toluene-d8	0.541		"	0.500		108	70-130			
Surrogate: Bromofluorobenzene	0.475		"	0.500		95.0	70-130			

Matrix Spike (2015019-MS2)

Source: P004024-01

Prepared: 04/09/20 0 Analyzed: 04/10/20 0

Gasoline Range Organics (C6-C10)	52.8	20.0	mg/kg	50.0	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		"	0.500		96.9	70-130			
Surrogate: Toluene-d8	0.539		"	0.500		108	70-130			
Surrogate: Bromofluorobenzene	0.485		"	0.500		97.0	70-130			

Matrix Spike Dup (2015019-MSD2)

Source: P004024-01

Prepared: 04/09/20 0 Analyzed: 04/10/20 0

Gasoline Range Organics (C6-C10)	51.9	20.0	mg/kg	50.0	ND	104	70-130	1.57	20	
Surrogate: 1,2-Dichloroethane-d4	0.505		"	0.500		101	70-130			
Surrogate: Toluene-d8	0.524		"	0.500		105	70-130			
Surrogate: Bromofluorobenzene	0.492		"	0.500		98.3	70-130			

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Grand Banks	Project Name:	Rancho Verde State Well #2	Reported: 04/10/20 16:04
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2015020 - Purge and Trap EPA 5030A

Blank (2015020-BLK1)

Prepared: 04/09/20 0 Analyzed: 04/09/20 2

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.08		"	8.00		88.5	50-150			

LCS (2015020-BS2)

Prepared: 04/09/20 0 Analyzed: 04/09/20 2

Gasoline Range Organics (C6-C10)	44.9	20.0	mg/kg	50.0		89.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.10		"	8.00		88.7	50-150			

Matrix Spike (2015020-MS2)

Source: P004011-03

Prepared: 04/09/20 0 Analyzed: 04/10/20 0

Gasoline Range Organics (C6-C10)	46.5	20.0	mg/kg	50.0	ND	92.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.08		"	8.00		88.5	50-150			

Matrix Spike Dup (2015020-MSD2)

Source: P004011-03

Prepared: 04/09/20 0 Analyzed: 04/10/20 0

Gasoline Range Organics (C6-C10)	49.8	20.0	mg/kg	50.0	ND	99.7	70-130	6.98	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		"	8.00		90.6	50-150			

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Grand Banks	Project Name:	Rancho Verde State Well #2	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/10/20 16:04

Anions by 300.0/9056A - Quality Control**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2015022 - Anion Extraction EPA 300.0/9056A**Blank (2015022-BLK1)**

Prepared: 04/09/20 0 Analyzed: 04/09/20 2

Chloride ND 20.0 mg/kg

LCS (2015022-BS1)

Prepared: 04/09/20 0 Analyzed: 04/09/20 2

Chloride 249 20.0 mg/kg 250 99.5 90-110

Matrix Spike (2015022-MS1)**Source: P004025-01**

Prepared: 04/09/20 0 Analyzed: 04/09/20 2

Chloride 254 20.0 mg/kg 250 ND 102 80-120

Matrix Spike Dup (2015022-MSD1)**Source: P004025-01**

Prepared: 04/09/20 0 Analyzed: 04/09/20 2

Chloride 254 20.0 mg/kg 250 ND 102 80-120 0.102 20

QC Summary Report**Comment:**

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Grand Banks	Project Name:	Rancho Verde State Well #2	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/10/20 16:04

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information

Chain of Custody

Page 1 of 2

Client: <u>Grand Banks</u>					Bill To					Lab Use Only					TAT		EPA Program					
Project: <u>Pancho Verde Statewell #2</u>					Attention: <u>Natalie Gladalen</u>					Lab WO# <u>P004025</u>					Job Number <u>19054-0003</u>		1D	3D	RCRA	CWA	SDWA	
Project Manager: <u>Calab Pitcher</u>					Address:					Analysis and Method										State		
Address: <u>4024 Plains Hwy</u>					City, State, Zip					DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BDOC - NM	BDOC - TX				
City, State, Zip <u>Louington, NM</u>					Phone:																	
Phone: <u>575-404-2125</u>					Email:																	
Email: <u>N.Gladalen@hungry-horse.com</u>					Report due by:																	
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number																	
2:14	4/7/20	S	1	SP15-4'	1											X						
8:03				SP16-4'	2											X						
8:27				SP17-4'	3											X						
1:20				SP18-6'	4											X						
9:40				SP19-4'	5											X						
10:42				SP20-8'	6											X						
11:04				SP21-4'	7											X						
12:05				SP22-8'	8											X						
2:04				SP9-14'	9											X						

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Calab Pitcher

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>Calab Pitcher</u>	Date <u>4/7/2020</u>	Time <u>4:46</u>	Received by: (Signature) <u>Natalie Gladalen</u>	Date <u>4/7/20</u>	Time <u>4:46</u>	Lab Use Only
Relinquished by: (Signature) <u>Natalie Gladalen</u>	Date <u>4/8/20</u>	Time <u>1:05</u>	Received by: (Signature) <u>Raine Lopez</u>	Date <u>4.8.2020</u>	Time <u>1:05</u>	Received on ice: <u>Y</u> N
Relinquished by: (Signature) <u>Raine Lopez</u>	Date <u>4.8.2020</u>	Time <u>1640</u>	Received by: (Signature) <u>Raine Lopez</u>	Date <u>4/9/20</u>	Time <u>9:30</u>	T1 T2 T3
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						AVG Temp °C <u>4</u>
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA						

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



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24 Hour Emergency Response Phone: (800) 362-1879

Ph (505) 632-1881 Fx (505) 632-1865

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labadmin@envirotech-inc.com

[illegible]



Analytical Report

Report Summary

Client: Grand Banks

Samples Received: 4/15/2020

Job Number: 19054-0003

Work Order: P004050

Project Name/Location: Rancho Verde 10 SW #2

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue horizontal line.

Date: 4/16/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Grand Banks	Project Name:	Rancho Verde 10 SW #2	Reported: 04/16/20 11:43
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP24-22'	P004050-01A	Soil	04/13/20	04/15/20	Glass Jar, 4 oz.
SP25-4'	P004050-02A	Soil	04/13/20	04/15/20	Glass Jar, 4 oz.

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Grand Banks	Project Name:	Rancho Verde 10 SW #2	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/16/20 11:43

SP24-22'
P004050-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2016024	04/15/20	04/15/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2016024	04/15/20	04/15/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2016024	04/15/20	04/15/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2016024	04/15/20	04/15/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2016024	04/15/20	04/15/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2016024	04/15/20	04/15/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %		50-150	2016024	04/15/20	04/15/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2016025	04/15/20	04/15/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2016025	04/15/20	04/15/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		89.6 %		50-200	2016025	04/15/20	04/15/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2016024	04/15/20	04/15/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.2 %		50-150	2016024	04/15/20	04/15/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	880	20.0	mg/kg	1	2016022	04/15/20	04/15/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 SW #2	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/16/20 11:43

SP25-4'
P004050-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2016024	04/15/20	04/15/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2016024	04/15/20	04/15/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2016024	04/15/20	04/15/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2016024	04/15/20	04/15/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2016024	04/15/20	04/15/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2016024	04/15/20	04/15/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %		50-150	2016024	04/15/20	04/15/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2016025	04/15/20	04/15/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2016025	04/15/20	04/15/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		74.0 %		50-200	2016025	04/15/20	04/15/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2016024	04/15/20	04/15/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.9 %		50-150	2016024	04/15/20	04/15/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	99.8	20.0	mg/kg	1	2016022	04/15/20	04/15/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 SW #2	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/16/20 11:43

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2016024 - Purge and Trap EPA 5030A

Blank (2016024-BLK1)

Prepared: 04/15/20 0 Analyzed: 04/15/20 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							

Surrogate: 4-Bromochlorobenzene-PID 8.47 " 8.00 106 50-150

LCS (2016024-BS1)

Prepared: 04/15/20 0 Analyzed: 04/15/20 1

Benzene	5.16	0.0250	mg/kg	5.00		103	70-130			
Toluene	5.15	0.0250	"	5.00		103	70-130			
Ethylbenzene	5.13	0.0250	"	5.00		103	70-130			
p,m-Xylene	10.3	0.0500	"	10.0		103	70-130			
o-Xylene	5.14	0.0250	"	5.00		103	70-130			
Total Xylenes	15.4	0.0250	"	15.0		103	0-200			

Surrogate: 4-Bromochlorobenzene-PID 8.49 " 8.00 106 50-150

Matrix Spike (2016024-MS1)

Source: P004050-01

Prepared: 04/15/20 0 Analyzed: 04/15/20 1

Benzene	5.17	0.0250	mg/kg	5.00	ND	103	54.3-133			
Toluene	5.16	0.0250	"	5.00	ND	103	61.4-130			
Ethylbenzene	5.15	0.0250	"	5.00	ND	103	61.4-133			
p,m-Xylene	10.3	0.0500	"	10.0	ND	103	63.3-131			
o-Xylene	5.17	0.0250	"	5.00	ND	103	63.3-131			
Total Xylenes	15.5	0.0250	"	15.0	ND	103	0-200			

Surrogate: 4-Bromochlorobenzene-PID 8.46 " 8.00 106 50-150

Matrix Spike Dup (2016024-MSD1)

Source: P004050-01

Prepared: 04/15/20 0 Analyzed: 04/15/20 1

Benzene	5.10	0.0250	mg/kg	5.00	ND	102	54.3-133	1.48	20	
Toluene	5.06	0.0250	"	5.00	ND	101	61.4-130	1.92	20	
Ethylbenzene	5.05	0.0250	"	5.00	ND	101	61.4-133	1.85	20	
p,m-Xylene	10.1	0.0500	"	10.0	ND	101	63.3-131	1.95	20	
o-Xylene	5.06	0.0250	"	5.00	ND	101	63.3-131	2.11	20	
Total Xylenes	15.2	0.0250	"	15.0	ND	101	0-200	2.00	200	

Surrogate: 4-Bromochlorobenzene-PID 8.39 " 8.00 105 50-150

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Grand Banks	Project Name:	Rancho Verde 10 SW #2	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/16/20 11:43

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2016025 - DRO Extraction EPA 3570

Blank (2016025-BLK1)

Prepared: 04/15/20 0 Analyzed: 04/15/20 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	45.2		"	50.0		90.4	50-200			

LCS (2016025-BS1)

Prepared: 04/15/20 0 Analyzed: 04/15/20 1

Diesel Range Organics (C10-C28)	441	25.0	mg/kg	500		88.2	38-132			
Surrogate: n-Nonane	49.6		"	50.0		99.1	50-200			

Matrix Spike (2016025-MS1)

Source: P004050-01

Prepared: 04/15/20 0 Analyzed: 04/15/20 1

Diesel Range Organics (C10-C28)	441	25.0	mg/kg	500	ND	88.1	38-132			
Surrogate: n-Nonane	46.3		"	50.0		92.5	50-200			

Matrix Spike Dup (2016025-MSD1)

Source: P004050-01

Prepared: 04/15/20 0 Analyzed: 04/15/20 1

Diesel Range Organics (C10-C28)	433	25.0	mg/kg	500	ND	86.7	38-132	1.68	20	
Surrogate: n-Nonane	45.5		"	50.0		91.1	50-200			

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Grand Banks	Project Name:	Rancho Verde 10 SW #2	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/16/20 11:43

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2016024 - Purge and Trap EPA 5030A

Blank (2016024-BLK1)

Prepared: 04/15/20 0 Analyzed: 04/15/20 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		"	8.00		91.8	50-150			

LCS (2016024-BS2)

Prepared: 04/15/20 0 Analyzed: 04/15/20 1

Gasoline Range Organics (C6-C10)	47.7	20.0	mg/kg	50.0		95.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		"	8.00		91.8	50-150			

Matrix Spike (2016024-MS2)

Source: P004050-01

Prepared: 04/15/20 0 Analyzed: 04/15/20 1

Gasoline Range Organics (C6-C10)	47.2	20.0	mg/kg	50.0	ND	94.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		"	8.00		91.8	50-150			

Matrix Spike Dup (2016024-MSD2)

Source: P004050-01

Prepared: 04/15/20 0 Analyzed: 04/15/20 1

Gasoline Range Organics (C6-C10)	45.9	20.0	mg/kg	50.0	ND	91.7	70-130	2.79	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		"	8.00		93.8	50-150			

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Grand Banks	Project Name:	Rancho Verde 10 SW #2	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/16/20 11:43

Anions by 300.0/9056A - Quality Control**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2016022 - Anion Extraction EPA 300.0/9056A**Blank (2016022-BLK1)**

Prepared: 04/15/20 0 Analyzed: 04/15/20 1

Chloride ND 20.0 mg/kg

LCS (2016022-BS1)

Prepared: 04/15/20 0 Analyzed: 04/15/20 1

Chloride 253 20.0 mg/kg 250 101 90-110

Matrix Spike (2016022-MS1)**Source: P004050-01**

Prepared: 04/15/20 0 Analyzed: 04/15/20 1

Chloride 1120 20.0 mg/kg 250 880 95.5 80-120

Matrix Spike Dup (2016022-MSD1)**Source: P004050-01**

Prepared: 04/15/20 0 Analyzed: 04/15/20 1

Chloride 1150 20.0 mg/kg 250 880 106 80-120 2.41 20

QC Summary Report**Comment:**

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Grand Banks	Project Name:	Rancho Verde 10 SW #2	Reported: 04/16/20 11:43
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information

Chain of Custody

Page 1 of 1

Client: <u>Carmel Banks</u>		Report Attention		Lab Use Only		TAT		EPA Program				
Project: <u>Kancho Verde 10 SW #2</u>		Report due by:		Lab WO# <u>P004050</u>		Job Number <u>19054-0003</u>		1D	3D	RCRA	CWA	SDV
Project Manager: <u>Cheryl Pickner</u>		Attention: <u>Natalie Gladstone</u>										
Address: <u>4024 Plains Hwy</u>		Address:								State		
City, State, Zip <u>Lawson NM</u>		City, State, Zip								NM CO UT A		
Phone: <u>575-404-0123</u>		Phone:										
Email: <u>N.Gladstone@Hungry-Horse.com</u>		Email:										

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005	BGDOC - NM	BGDOC - TX	Remarks
102	4/13/20	S	1	SP24-22'	1									
2:05	1	1	1	SP25-4'	2									

Additional Instructions:						<u>SSB 4.14.2020 1405</u> <u>Rain Lopez 4/14/20 9:30</u> I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only					
<u>[Signature]</u>		<u>4/13/20</u>		<u>4:28</u>		<u>[Signature]</u>		<u>4/13/20</u>		<u>4:30</u>		Received on ice: <u>Y</u> / N					
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3					
<u>[Signature]</u>		<u>4/14/20</u>		<u>10:45</u>		<u>[Signature]</u>		<u>4-14-2020</u>		<u>1045</u>		AVG Temp °C <u>4</u>					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



Analytical Report

Report Summary

Client: Grand Banks

Samples Received: 4/17/2020

Job Number: 19054-0003

Work Order: P004101

Project Name/Location: Rancho Verde 10 SW
#002

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue horizontal line.

Date: 4/20/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Grand Banks
PO Box 1058
Hobbs NM, 88240

Project Name: Rancho Verde 10 SW #002
Project Number: 19054-0003
Project Manager: Caleb Pilcher

Reported:
04/20/20 14:44

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP26-10'	P004101-01A	Soil	04/14/20	04/17/20	Glass Jar, 4 oz.
SP27-4'	P004101-02A	Soil	04/14/20	04/17/20	Glass Jar, 4 oz.
SP28-6'	P004101-03A	Soil	04/14/20	04/17/20	Glass Jar, 4 oz.
SP29-8'	P004101-04A	Soil	04/14/20	04/17/20	Glass Jar, 4 oz.
SP30-18'	P004101-05A	Soil	04/15/20	04/17/20	Glass Jar, 4 oz.
SP31-13'	P004101-06A	Soil	04/15/20	04/17/20	Glass Jar, 4 oz.

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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/20/20 14:44

SP26-10'
P004101-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	2016029	04/17/20	04/17/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2016031	04/16/20	04/17/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2016031	04/16/20	04/17/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		97.8 %		50-200	2016031	04/16/20	04/17/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.5 %		50-150	2016029	04/17/20	04/17/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	41.6	20.0	mg/kg	1	2016034	04/17/20	04/17/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/20/20 14:44

SP27-4'
P004101-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %		50-150	2016029	04/17/20	04/17/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2016031	04/16/20	04/17/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2016031	04/16/20	04/17/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		90.7 %		50-200	2016031	04/16/20	04/17/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.5 %		50-150	2016029	04/17/20	04/17/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	29.6	20.0	mg/kg	1	2016034	04/17/20	04/17/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/20/20 14:44

SP28-6'
P004101-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %		50-150	2016029	04/17/20	04/17/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2016031	04/16/20	04/17/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2016031	04/16/20	04/17/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		91.9 %		50-200	2016031	04/16/20	04/17/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.9 %		50-150	2016029	04/17/20	04/17/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	190	20.0	mg/kg	1	2016034	04/17/20	04/17/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/20/20 14:44

SP29-8'
P004101-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %		50-150	2016029	04/17/20	04/17/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2016031	04/16/20	04/17/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2016031	04/16/20	04/17/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		87.4 %		50-200	2016031	04/16/20	04/17/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.3 %		50-150	2016029	04/17/20	04/17/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	61.7	20.0	mg/kg	1	2016034	04/17/20	04/17/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/20/20 14:44

SP30-18'
P004101-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %		50-150	2016029	04/17/20	04/17/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2016031	04/16/20	04/17/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2016031	04/16/20	04/17/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		88.9 %		50-200	2016031	04/16/20	04/17/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.5 %		50-150	2016029	04/17/20	04/17/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2016034	04/17/20	04/17/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/20/20 14:44

SP31-13'
P004101-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %		50-150	2016029	04/17/20	04/17/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2016031	04/16/20	04/17/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2016031	04/16/20	04/17/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		91.4 %		50-200	2016031	04/16/20	04/17/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2016029	04/17/20	04/17/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.8 %		50-150	2016029	04/17/20	04/17/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	66.5	20.0	mg/kg	1	2016034	04/17/20	04/17/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 SW #002	Reported: 04/20/20 14:44
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	

Volatile Organics by EPA 8021 - Quality Control**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2016029 - Purge and Trap EPA 5030A**Blank (2016029-BLK1)**

Prepared & Analyzed: 04/16/20 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.45		"	8.00		106	50-150			

LCS (2016029-BS1)

Prepared & Analyzed: 04/16/20 1

Benzene	4.96	0.0250	mg/kg	5.00		99.3	70-130			
Toluene	5.04	0.0250	"	5.00		101	70-130			
Ethylbenzene	4.99	0.0250	"	5.00		99.7	70-130			
p,m-Xylene	9.90	0.0500	"	10.0		99.0	70-130			
o-Xylene	4.91	0.0250	"	5.00		98.2	70-130			
Total Xylenes	14.8	0.0250	"	15.0		98.7	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.61		"	8.00		108	50-150			

Matrix Spike (2016029-MS1)

Source: P004055-01

Prepared: 04/16/20 1 Analyzed: 04/16/20 2

Benzene	4.99	0.0250	mg/kg	5.00	0.0634	98.5	54.3-133			
Toluene	5.84	0.0250	"	5.00	1.23	92.3	61.4-130			
Ethylbenzene	6.32	0.0250	"	5.00	0.816	110	61.4-133			
p,m-Xylene	19.1	0.0500	"	10.0	10.8	83.1	63.3-131			
o-Xylene	8.16	0.0250	"	5.00	2.51	113	63.3-131			
Total Xylenes	27.3	0.0250	"	15.0	13.3	93.1	0-200			
Surrogate: 4-Bromochlorobenzene-PID	9.60		"	8.00		120	50-150			

Matrix Spike Dup (2016029-MSD1)

Source: P004055-01

Prepared: 04/16/20 1 Analyzed: 04/16/20 2

Benzene	4.88	0.0250	mg/kg	5.00	0.0634	96.3	54.3-133	2.18	20	
Toluene	5.58	0.0250	"	5.00	1.23	87.1	61.4-130	4.63	20	
Ethylbenzene	5.95	0.0250	"	5.00	0.816	103	61.4-133	6.08	20	
p,m-Xylene	17.9	0.0500	"	10.0	10.8	70.7	63.3-131	6.71	20	
o-Xylene	7.64	0.0250	"	5.00	2.51	103	63.3-131	6.63	20	
Total Xylenes	25.5	0.0250	"	15.0	13.3	81.3	0-200	6.69	200	
Surrogate: 4-Bromochlorobenzene-PID	9.49		"	8.00		119	50-150			

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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/20/20 14:44

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2016031 - DRO Extraction EPA 3570

Blank (2016031-BLK1)

Prepared: 04/16/20 1 Analyzed: 04/17/20 0

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	50.4		"	50.0		101	50-200			

LCS (2016031-BS1)

Prepared: 04/16/20 1 Analyzed: 04/17/20 0

Diesel Range Organics (C10-C28)	435	25.0	mg/kg	500		87.1	38-132			
Surrogate: n-Nonane	47.6		"	50.0		95.3	50-200			

Matrix Spike (2016031-MS1)

Source: P004055-01

Prepared: 04/16/20 1 Analyzed: 04/17/20 1

Diesel Range Organics (C10-C28)	16700	500	mg/kg	500	16300	93.9	38-132			M4
Surrogate: n-Nonane	77.9		"	50.0		156	50-200			

Matrix Spike Dup (2016031-MSD1)

Source: P004055-01

Prepared: 04/16/20 1 Analyzed: 04/17/20 1

Diesel Range Organics (C10-C28)	15400	500	mg/kg	500	16300	NR	38-132	8.35	20	M4
Surrogate: n-Nonane	72.7		"	50.0		145	50-200			

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Grand Banks	Project Name:	Rancho Verde 10 SW #002	Reported: 04/20/20 14:44
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2016029 - Purge and Trap EPA 5030A

Blank (2016029-BLK1)

Prepared & Analyzed: 04/16/20 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.16		"	8.00		89.5	50-150			

LCS (2016029-BS2)

Prepared: 04/16/20 1 Analyzed: 04/16/20 2

Gasoline Range Organics (C6-C10)	49.5	20.0	mg/kg	50.0		99.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		"	8.00		90.9	50-150			

Matrix Spike (2016029-MS2)

Source: P004055-01

Prepared: 04/16/20 1 Analyzed: 04/16/20 2

Gasoline Range Organics (C6-C10)	260	20.0	mg/kg	50.0	231	58.8	70-130			M2
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.89		"	8.00		98.6	50-150			

Matrix Spike Dup (2016029-MSD2)

Source: P004055-01

Prepared: 04/16/20 1 Analyzed: 04/16/20 2

Gasoline Range Organics (C6-C10)	247	20.0	mg/kg	50.0	231	32.7	70-130	5.14	20	M2
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.98		"	8.00		99.8	50-150			

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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/20/20 14:44

Anions by 300.0/9056A - Quality Control**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2016034 - Anion Extraction EPA 300.0/9056A**Blank (2016034-BLK1)**

Prepared: 04/17/20 0 Analyzed: 04/17/20 1

Chloride	ND	20.0	mg/kg							
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LCS (2016034-BS1)

Prepared: 04/17/20 0 Analyzed: 04/17/20 1

Chloride	249	20.0	mg/kg	250		99.7	90-110			
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Matrix Spike (2016034-MS1)**Source: P004101-01**

Prepared: 04/17/20 0 Analyzed: 04/17/20 1

Chloride	293	20.0	mg/kg	250	41.6	101	80-120			
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Matrix Spike Dup (2016034-MSD1)**Source: P004101-01**

Prepared: 04/17/20 0 Analyzed: 04/17/20 1

Chloride	296	20.0	mg/kg	250	41.6	102	80-120	0.985	20	
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QC Summary Report**Comment:**

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Grand Banks	Project Name:	Rancho Verde 10 SW #002	Reported: 04/20/20 14:44
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	

Notes and Definitions

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- ** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information

Chain of Custody

Page 1 of 1

Client: Gravel Banks
 Project: Kanaka Valley 10SW#0012
 Project Manager: Caleb Pitcher
 Address: 4020 Plains Trail
 City, State, Zip: Louisville, NM
 Phone: 575-404-1223
 Email: clg@hobbyhorse.com

Report Attention

Report due by: 4/16/2020
 Attention: Natalie Gladstone
 Address: 4020 Plains Trail
 City, State, Zip: Louisville, NM
 Phone: 575-404-1223
 Email: ngladstone@hobbyhorse.com

Lab Use Only

Lab WO#

P00401

Job Number

19054-0003

TAT

1D 3D

X

EPA Program

RCRA

CWA

SDWA

Analysis and Method

State

NM CO UT AZ

Remarks

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/RO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005	BGDOC - NM	BGDOC - TX	Remarks
4:16	4/14/2020	S	1	SP26-10'	1							X		
10:27			2	SP27-4'	2							X		
12:26			3	SP28-6'	3							X		
1:40			4	SP29-8'	4							X		
8:44	4/15/20		5	SP30-18'	5							X		
2:13			6	SP31-13'	6							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: [Signature]

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>4/15/20</u>	Time <u>4:55</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>4/15/20</u>	Time <u>4:55</u>	Lab Use Only
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>4/16/20</u>	Time <u>1400</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>4/16/2020</u>	Time <u>1400</u>	Received on ice: <u>(Y)</u> N
						T1 T2 T3
						AVG Temp °C <u>4</u>
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Notice: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



5795 US Highway 64, Farmington, NM 87401
 24 Hour Emergency Response Phone (800) 362-1879

Ph (505) 632-1881 Fx (505) 632-1865

envirotech-inc.com
 labadmin@envirotech-inc.com



Analytical Report

Report Summary

Client: Grand Banks

Samples Received: 4/22/2020

Job Number: 19054-0003

Work Order: P004119

Project Name/Location: Rancho Verde 10 SW
#002

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light pink rectangular background.

Date: 4/23/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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Envirotech, Inc. holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc. holds the Texas TNI certification T104704557-19-2 for the data reported.



Grand Banks
PO Box 1058
Hobbs NM, 88240

Project Name: Rancho Verde 10 SW #002
Project Number: 19054-0003
Project Manager: Caleb Pilcher

Reported:
04/23/20 13:35

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW1-2'	P004119-01A	Soil	04/15/20	04/22/20	Glass Jar, 4 oz.
SW2-2'	P004119-02A	Soil	04/15/20	04/22/20	Glass Jar, 4 oz.
SW3-2'	P004119-03A	Soil	04/15/20	04/22/20	Glass Jar, 4 oz.
SW4-2'	P004119-04A	Soil	04/15/20	04/22/20	Glass Jar, 4 oz.
SW5-2'	P004119-05A	Soil	04/15/20	04/22/20	Glass Jar, 4 oz.
SW6-2'	P004119-06A	Soil	04/15/20	04/22/20	Glass Jar, 4 oz.
SW7-2'	P004119-07A	Soil	04/15/20	04/22/20	Glass Jar, 4 oz.
SW8-2'	P004119-08A	Soil	04/15/20	04/22/20	Glass Jar, 4 oz.
SW9-2'	P004119-09A	Soil	04/15/20	04/22/20	Glass Jar, 4 oz.
SW10-2'	P004119-10A	Soil	04/15/20	04/22/20	Glass Jar, 4 oz.
SW11-2'	P004119-11A	Soil	04/15/20	04/22/20	Glass Jar, 4 oz.
SP7-6'	P004119-12A	Soil	04/15/20	04/22/20	Glass Jar, 4 oz.
SP8-8'	P004119-13A	Soil	04/15/20	04/22/20	Glass Jar, 4 oz.
SP14-14'	P004119-14A	Soil	04/15/20	04/22/20	Glass Jar, 4 oz.

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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/23/20 13:35

SW1-2'
P004119-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %		50-150	2017022	04/22/20	04/22/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		106 %		50-200	2017025	04/22/20	04/22/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.0 %		50-150	2017022	04/22/20	04/22/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	51.0	20.0	mg/kg	1	2017026	04/22/20	04/22/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/23/20 13:35

SW2-2'
P004119-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	2017022	04/22/20	04/22/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		93.9 %		50-200	2017025	04/22/20	04/22/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.1 %		50-150	2017022	04/22/20	04/22/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2017026	04/22/20	04/22/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/23/20 13:35

SW3-2'
P004119-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	2017022	04/22/20	04/22/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		90.8 %		50-200	2017025	04/22/20	04/22/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.6 %		50-150	2017022	04/22/20	04/22/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2017026	04/22/20	04/22/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/23/20 13:35

SW4-2'**P004119-04 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %		50-150	2017022	04/22/20	04/22/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	29.1	25.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		109 %		50-200	2017025	04/22/20	04/22/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.9 %		50-150	2017022	04/22/20	04/22/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2017026	04/22/20	04/22/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/23/20 13:35

SW5-2'
P004119-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	2017022	04/22/20	04/22/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	49.2	25.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		110 %		50-200	2017025	04/22/20	04/22/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.4 %		50-150	2017022	04/22/20	04/22/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2017026	04/22/20	04/22/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/23/20 13:35

SW6-2'
P004119-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %		50-150	2017022	04/22/20	04/22/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	145	25.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
Oil Range Organics (C28-C40)	139	50.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		109 %		50-200	2017025	04/22/20	04/22/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.6 %		50-150	2017022	04/22/20	04/22/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2017026	04/22/20	04/22/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/23/20 13:35

SW7-2'
P004119-07 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	2017022	04/22/20	04/22/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		88.1 %		50-200	2017025	04/22/20	04/22/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.4 %		50-150	2017022	04/22/20	04/22/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2017026	04/22/20	04/22/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/23/20 13:35

SW8-2'
P004119-08 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %		50-150	2017022	04/22/20	04/22/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		89.7 %		50-200	2017025	04/22/20	04/22/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.9 %		50-150	2017022	04/22/20	04/22/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	268	20.0	mg/kg	1	2017026	04/22/20	04/22/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/23/20 13:35

SW9-2'**P004119-09 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %		50-150	2017022	04/22/20	04/22/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	27.8	25.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		107 %		50-200	2017025	04/22/20	04/22/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.8 %		50-150	2017022	04/22/20	04/22/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2017026	04/22/20	04/22/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/23/20 13:35

SW10-2'
P004119-10 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	2017022	04/22/20	04/22/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		93.7 %		50-200	2017025	04/22/20	04/22/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.4 %		50-150	2017022	04/22/20	04/22/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	84.9	20.0	mg/kg	1	2017026	04/22/20	04/22/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/23/20 13:35

SW11-2'
P004119-11 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %		50-150	2017022	04/22/20	04/22/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		86.4 %		50-200	2017025	04/22/20	04/22/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.8 %		50-150	2017022	04/22/20	04/22/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2017026	04/22/20	04/22/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/23/20 13:35

SP7-6'
P004119-12 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
p,m-Xylene	0.0717	0.0500	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Total Xylenes	0.0717	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>103 %</i>		<i>50-150</i>	<i>2017022</i>	<i>04/22/20</i>	<i>04/22/20</i>	<i>EPA 8021B</i>	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	12500	500	mg/kg	20	2017025	04/22/20	04/22/20	EPA 8015D	
Oil Range Organics (C28-C40)	4430	1000	mg/kg	20	2017025	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		<i>114 %</i>		<i>50-200</i>	<i>2017025</i>	<i>04/22/20</i>	<i>04/22/20</i>	<i>EPA 8015D</i>	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>91.4 %</i>		<i>50-150</i>	<i>2017022</i>	<i>04/22/20</i>	<i>04/22/20</i>	<i>EPA 8015D</i>	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2017026	04/22/20	04/22/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/23/20 13:35

SP8-8'
P004119-13 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	2017022	04/22/20	04/22/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	280	25.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
Oil Range Organics (C28-C40)	154	50.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		111 %		50-200	2017025	04/22/20	04/22/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.7 %		50-150	2017022	04/22/20	04/22/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	35.6	20.0	mg/kg	1	2017026	04/22/20	04/22/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/23/20 13:35

SP14-14'
P004119-14 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %		50-150	2017022	04/22/20	04/22/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		95.3 %		50-200	2017025	04/22/20	04/22/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2017022	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.8 %		50-150	2017022	04/22/20	04/22/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	412	20.0	mg/kg	1	2017026	04/22/20	04/22/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 SW #002	Reported: 04/23/20 13:35
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	

Volatile Organics by EPA 8021 - Quality Control**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2017022 - Purge and Trap EPA 5030A**Blank (2017022-BLK1)**

Prepared: 04/21/20 1 Analyzed: 04/22/20 0

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.26		"	8.00		103	50-150			

LCS (2017022-BS1)

Prepared: 04/21/20 1 Analyzed: 04/22/20 0

Benzene	5.04	0.0250	mg/kg	5.00		101	70-130			
Toluene	5.02	0.0250	"	5.00		100	70-130			
Ethylbenzene	4.99	0.0250	"	5.00		99.8	70-130			
p,m-Xylene	9.97	0.0500	"	10.0		99.7	70-130			
o-Xylene	5.02	0.0250	"	5.00		100	70-130			
Total Xylenes	15.0	0.0250	"	15.0		100	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.28		"	8.00		104	50-150			

Matrix Spike (2017022-MS1)

Source: P004117-01

Prepared: 04/21/20 1 Analyzed: 04/22/20 0

Benzene	4.97	0.0250	mg/kg	5.00	ND	99.4	54.3-133			
Toluene	4.94	0.0250	"	5.00	ND	98.9	61.4-130			
Ethylbenzene	4.92	0.0250	"	5.00	ND	98.4	61.4-133			
p,m-Xylene	9.82	0.0500	"	10.0	ND	98.2	63.3-131			
o-Xylene	4.96	0.0250	"	5.00	ND	99.1	63.3-131			
Total Xylenes	14.8	0.0250	"	15.0	ND	98.5	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.45		"	8.00		106	50-150			

Matrix Spike Dup (2017022-MSD1)

Source: P004117-01

Prepared: 04/21/20 1 Analyzed: 04/22/20 0

Benzene	5.15	0.0250	mg/kg	5.00	ND	103	54.3-133	3.63	20	
Toluene	5.12	0.0250	"	5.00	ND	102	61.4-130	3.42	20	
Ethylbenzene	5.10	0.0250	"	5.00	ND	102	61.4-133	3.46	20	
p,m-Xylene	10.2	0.0500	"	10.0	ND	102	63.3-131	3.57	20	
o-Xylene	5.13	0.0250	"	5.00	ND	103	63.3-131	3.39	20	
Total Xylenes	15.3	0.0250	"	15.0	ND	102	0-200	3.51	200	
Surrogate: 4-Bromochlorobenzene-PID	8.43		"	8.00		105	50-150			

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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/23/20 13:35

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2017025 - DRO Extraction EPA 3570

Blank (2017025-BLK1)

Prepared: 04/22/20 0 Analyzed: 04/22/20 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	46.8		"	50.0		93.7	50-200			

LCS (2017025-BS1)

Prepared: 04/22/20 0 Analyzed: 04/22/20 1

Diesel Range Organics (C10-C28)	459	25.0	mg/kg	500		91.7	38-132			
Surrogate: n-Nonane	48.1		"	50.0		96.2	50-200			

Matrix Spike (2017025-MS1)

Source: P004119-01

Prepared: 04/22/20 0 Analyzed: 04/22/20 2

Diesel Range Organics (C10-C28)	477	25.0	mg/kg	500	ND	95.3	38-132			
Surrogate: n-Nonane	50.3		"	50.0		101	50-200			

Matrix Spike Dup (2017025-MSD1)

Source: P004119-01

Prepared: 04/22/20 0 Analyzed: 04/22/20 2

Diesel Range Organics (C10-C28)	444	25.0	mg/kg	500	ND	88.9	38-132	7.00	20	
Surrogate: n-Nonane	50.7		"	50.0		101	50-200			

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Grand Banks	Project Name:	Rancho Verde 10 SW #002	Reported: 04/23/20 13:35
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2017022 - Purge and Trap EPA 5030A

Blank (2017022-BLK1)

Prepared: 04/21/20 1 Analyzed: 04/22/20 0

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		"	8.00		92.2	50-150			

LCS (2017022-BS2)

Prepared: 04/21/20 1 Analyzed: 04/22/20 0

Gasoline Range Organics (C6-C10)	44.8	20.0	mg/kg	50.0		89.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		"	8.00		94.8	50-150			

Matrix Spike (2017022-MS2)

Source: P004117-01

Prepared: 04/21/20 1 Analyzed: 04/22/20 0

Gasoline Range Organics (C6-C10)	47.1	20.0	mg/kg	50.0	ND	94.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		"	8.00		93.9	50-150			

Matrix Spike Dup (2017022-MSD2)

Source: P004117-01

Prepared: 04/21/20 1 Analyzed: 04/22/20 0

Gasoline Range Organics (C6-C10)	40.4	20.0	mg/kg	50.0	ND	80.7	70-130	15.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		"	8.00		94.7	50-150			

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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/23/20 13:35

Anions by 300.0/9056A - Quality Control**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2017026 - Anion Extraction EPA 300.0/9056A**Blank (2017026-BLK1)**

Prepared: 04/22/20 0 Analyzed: 04/22/20 1

Chloride	ND	20.0	mg/kg							
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LCS (2017026-BS1)

Prepared: 04/22/20 0 Analyzed: 04/22/20 1

Chloride	248	20.0	mg/kg	250		99.2	90-110			
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Matrix Spike (2017026-MS1)**Source: P004119-01**

Prepared: 04/22/20 0 Analyzed: 04/22/20 1

Chloride	312	20.0	mg/kg	250	51.0	104	80-120			
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Matrix Spike Dup (2017026-MSD1)**Source: P004119-01**

Prepared: 04/22/20 0 Analyzed: 04/22/20 1

Chloride	312	20.0	mg/kg	250	51.0	104	80-120	0.00641	20	
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QC Summary Report**Comment:**

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Grand Banks	Project Name:	Rancho Verde 10 SW #002	Reported: 04/23/20 13:35
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Client: Grand Banks
 Project: Rancheros SW #002
 Project Manager: Caleb Picher
 Address: 4024 Plains Hwy
 City, State, Zip: Lawton, NM
 Phone: 575-404-0123
 Email: N.Gladston@Hungry-Horse.com

Report Attention

Report due by: _____
 Attention: Natalie Gladston
 Address: _____
 City, State, Zip: _____
 Phone: _____
 Email: _____

Lab Use Only

Lab WO#

P004119

Job Number

19054-0003

TAT

1D

X

3D

EPA Program

RCRA

CWA

SD

Analysis and Method

State

NM

CO

UT

AZ

Remarks

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORQ by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005	BGDOC - NM	BGDOC - TX						
9:09	4/15/20	S	1	SW1-2'	1							X							
9:30				SW2-2'	2							X							
9:37				SW3-2'	3							X							
10:20				SW4-2'	4							X							
10:27				SW5-2'	5							X							
10:48				SW6-2'	6							X							
1:10				SW7-2'	7							X							
1:20				SW8-2'	8							X							
1:34				SW9-2'	9							X							
1:47				SW10-2'	10							X							

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Caleb Picher

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>Caleb Picher</u>	Date <u>4/20/2020</u>	Time <u>7:42</u>	Received by: (Signature) <u>Natalie Gladston</u>	Date <u>4/20/20</u>	Time <u>7:42</u>	Lab Use Only
Relinquished by: (Signature) <u>Natalie Gladston</u>	Date <u>4/21/20</u>	Time <u>2:06</u>	Received by: (Signature) <u>Raina Lopez</u>	Date <u>4-21-2020</u>	Time <u>1406</u>	Received on ice: <u>Y</u> / N
						T1 _____ T2 _____ T3 _____
						AVG Temp °C <u>4</u>
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Project Information

Chain of Custody

Page 2 of 2

Client: <u>Grand Banks</u>		Report Attention		Lab Use Only		TAT		EPA Program									
Project: <u>Ranchos Verde SW#002</u>		Report due by:		Lab WO#		Job Number		1D	3D	RCRA	CWA	SDV					
Project Manager: <u>Caleb Pilcher</u>		Attention: <u>Natalie Black</u>		<u>P004119</u>		<u>19054-0033</u>											
Address: <u>4024 Plains Hwy</u>		Address:		Analysis and Method								State					
City, State, Zip: <u>Lawington, NM</u>		City, State, Zip:		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0		TCEQ 1005	BGDOC - NM	BGDOC - TX		NM	CO	UT	A
Phone: <u>575-404-0123</u>		Phone:															
Email: <u>Ngladden@hangry-thrse.com</u>		Email:															

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0		TCEQ 1005	BGDOC - NM	BGDOC - TX			Remarks
1:57	4/15/20	S	1	SW11-2'	11								X				
2:00				SP7-6'	12								X				
2:30				SP8-8'	13								X				
11:17				SP14-14'	14								X				

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Eckel

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only	
<u>Caleb Pilcher</u>	4/20/2020	7:42	<u>Natalie Black</u>	4/20/20	2:07	Received on ice: <u>Y</u> N	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3	
<u>Natalie Black</u>	4/21/20	2:07	<u>Jim S</u>	4-21-2020	1407	AVG Temp °C <u>4</u>	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA	

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Analytical Report

Report Summary

Client: Grand Banks

Samples Received: 5/5/2020

Job Number: 19054-0003

Work Order: P005007

Project Name/Location: Rancho Verde

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue horizontal line.

Date: 5/6/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Grand Banks
PO Box 1058
Hobbs NM, 88240

Project Name: Rancho Verde
Project Number: 19054-0003
Project Manager: Natalie Gladden

Reported:
05/06/20 11:47

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sp 7-14'	P005007-01A	Soil	04/30/20	05/05/20	Glass Jar, 4 oz.
Sp 21-8'	P005007-02A	Soil	04/30/20	05/05/20	Glass Jar, 4 oz.
Sp 23-18'	P005007-03A	Soil	04/30/20	05/05/20	Glass Jar, 4 oz.

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Grand Banks	Project Name:	Rancho Verde	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	05/06/20 11:47

Sp 7-14'
P005007-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2019007	05/05/20	05/05/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2019007	05/05/20	05/05/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2019007	05/05/20	05/05/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2019007	05/05/20	05/05/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2019007	05/05/20	05/05/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2019007	05/05/20	05/05/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %		50-150	2019007	05/05/20	05/05/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	43.1	25.0	mg/kg	1	2019003	05/05/20	05/05/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2019003	05/05/20	05/05/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		88.1 %		50-200	2019003	05/05/20	05/05/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2019007	05/05/20	05/05/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.4 %		50-150	2019007	05/05/20	05/05/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	20.3	20.0	mg/kg	1	2019004	05/05/20	05/05/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	05/06/20 11:47

Sp 21-8'
P005007-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2019007	05/05/20	05/05/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2019007	05/05/20	05/05/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2019007	05/05/20	05/05/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2019007	05/05/20	05/05/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2019007	05/05/20	05/05/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2019007	05/05/20	05/05/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %		50-150	2019007	05/05/20	05/05/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2019003	05/05/20	05/05/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2019003	05/05/20	05/05/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		97.3 %		50-200	2019003	05/05/20	05/05/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2019007	05/05/20	05/05/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.2 %		50-150	2019007	05/05/20	05/05/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	30.1	20.0	mg/kg	1	2019004	05/05/20	05/05/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	05/06/20 11:47

Sp 23-18'
P005007-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2019007	05/05/20	05/05/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2019007	05/05/20	05/05/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2019007	05/05/20	05/05/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2019007	05/05/20	05/05/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2019007	05/05/20	05/05/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2019007	05/05/20	05/05/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %		50-150	2019007	05/05/20	05/05/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	61.6	25.0	mg/kg	1	2019003	05/05/20	05/05/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2019003	05/05/20	05/05/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		91.0 %		50-200	2019003	05/05/20	05/05/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2019007	05/05/20	05/05/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.2 %		50-150	2019007	05/05/20	05/05/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	162	20.0	mg/kg	1	2019004	05/05/20	05/05/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde	Reported: 05/06/20 11:47
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Natalie Gladden	

Volatile Organics by EPA 8021 - Quality Control**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2019007 - Purge and Trap EPA 5030A**Blank (2019007-BLK1)**

Prepared: 05/05/20 0 Analyzed: 05/05/20 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							

Surrogate: 4-Bromochlorobenzene-PID	8.27		"	8.00		103	50-150
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LCS (2019007-BS1)

Prepared: 05/05/20 0 Analyzed: 05/05/20 1

Benzene	4.69	0.0250	mg/kg	5.00		93.9	70-130
Toluene	4.68	0.0250	"	5.00		93.6	70-130
Ethylbenzene	4.66	0.0250	"	5.00		93.2	70-130
p,m-Xylene	9.32	0.0500	"	10.0		93.2	70-130
o-Xylene	4.67	0.0250	"	5.00		93.4	70-130
Total Xylenes	14.0	0.0250	"	15.0		93.3	0-200

Surrogate: 4-Bromochlorobenzene-PID	8.32		"	8.00		104	50-150
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Matrix Spike (2019007-MS1)

Source: P005007-01

Prepared: 05/05/20 0 Analyzed: 05/05/20 1

Benzene	4.78	0.0250	mg/kg	5.00	ND	95.5	54.3-133
Toluene	4.77	0.0250	"	5.00	ND	95.3	61.4-130
Ethylbenzene	4.76	0.0250	"	5.00	ND	95.2	61.4-133
p,m-Xylene	9.52	0.0500	"	10.0	ND	95.2	63.3-131
o-Xylene	4.75	0.0250	"	5.00	ND	95.0	63.3-131
Total Xylenes	14.3	0.0250	"	15.0	ND	95.1	0-200

Surrogate: 4-Bromochlorobenzene-PID	8.26		"	8.00		103	50-150
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Matrix Spike Dup (2019007-MSD1)

Source: P005007-01

Prepared: 05/05/20 0 Analyzed: 05/05/20 1

Benzene	5.12	0.0250	mg/kg	5.00	ND	102	54.3-133	6.92	20
Toluene	5.10	0.0250	"	5.00	ND	102	61.4-130	6.68	20
Ethylbenzene	5.09	0.0250	"	5.00	ND	102	61.4-133	6.67	20
p,m-Xylene	10.2	0.0500	"	10.0	ND	102	63.3-131	6.59	20
o-Xylene	5.09	0.0250	"	5.00	ND	102	63.3-131	6.84	20
Total Xylenes	15.3	0.0250	"	15.0	ND	102	0-200	6.67	200

Surrogate: 4-Bromochlorobenzene-PID	8.21		"	8.00		103	50-150
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Grand Banks	Project Name:	Rancho Verde	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	05/06/20 11:47

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2019003 - DRO Extraction EPA 3570

Blank (2019003-BLK1)

Prepared & Analyzed: 05/05/20 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	49.8		"	50.0		99.7	50-200			

LCS (2019003-BS1)

Prepared & Analyzed: 05/05/20 1

Diesel Range Organics (C10-C28)	411	25.0	mg/kg	500		82.2	38-132			
Surrogate: n-Nonane	44.2		"	50.0		88.4	50-200			

Matrix Spike (2019003-MS1)

Source: P005007-01

Prepared & Analyzed: 05/05/20 1

Diesel Range Organics (C10-C28)	486	25.0	mg/kg	500	43.1	88.6	38-132			
Surrogate: n-Nonane	48.4		"	50.0		96.8	50-200			

Matrix Spike Dup (2019003-MSD1)

Source: P005007-01

Prepared & Analyzed: 05/05/20 1

Diesel Range Organics (C10-C28)	491	25.0	mg/kg	500	43.1	89.6	38-132	1.02	20	
Surrogate: n-Nonane	47.8		"	50.0		95.6	50-200			

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Grand Banks	Project Name:	Rancho Verde	Reported: 05/06/20 11:47
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2019007 - Purge and Trap EPA 5030A

Blank (2019007-BLK1)

Prepared: 05/05/20 0 Analyzed: 05/05/20 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		"	8.00		93.4	50-150			

LCS (2019007-BS2)

Prepared: 05/05/20 0 Analyzed: 05/05/20 1

Gasoline Range Organics (C6-C10)	50.3	20.0	mg/kg	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		"	8.00		95.9	50-150			

Matrix Spike (2019007-MS2)

Source: P005007-01

Prepared: 05/05/20 0 Analyzed: 05/05/20 1

Gasoline Range Organics (C6-C10)	49.8	20.0	mg/kg	50.0	ND	99.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		"	8.00		92.9	50-150			

Matrix Spike Dup (2019007-MSD2)

Source: P005007-01

Prepared: 05/05/20 0 Analyzed: 05/05/20 1

Gasoline Range Organics (C6-C10)	49.8	20.0	mg/kg	50.0	ND	99.7	70-130	0.0923	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		"	8.00		93.6	50-150			

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Grand Banks	Project Name:	Rancho Verde	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	05/06/20 11:47

Anions by 300.0/9056A - Quality Control**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2019004 - Anion Extraction EPA 300.0/9056A**Blank (2019004-BLK1)**

Prepared & Analyzed: 05/05/20 1

Chloride	ND	20.0	mg/kg
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LCS (2019004-BS1)

Prepared & Analyzed: 05/05/20 1

Chloride	253	20.0	mg/kg	250	101	90-110
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Matrix Spike (2019004-MS1)**Source: P005006-01**

Prepared & Analyzed: 05/05/20 1

Chloride	278	100	mg/kg	250	ND	111	80-120
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Matrix Spike Dup (2019004-MSD1)**Source: P005006-01**

Prepared & Analyzed: 05/05/20 1

Chloride	271	100	mg/kg	250	ND	108	80-120	2.37	20
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QC Summary Report**Comment:**

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Grand Banks	Project Name:	Rancho Verde	Reported: 05/06/20 11:47
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Natalie Gladden	

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information

Chain of Custody

Page 1 of 1

Client: <u>Grand Banks</u>	Report Attention	Lab Use Only		TAT		EPA Program							
Project: <u>Rancho Verde</u>		Report due by:	Lab WO#	Job Number	1D	3D	RCRA	CWA	SDWA				
Project Manager:		Attention: <u>Natalie Gladden</u>	<u>P 005007</u>	<u>19054-0003</u>	☒								
Address:		Address:	Analysis and Method			State							
City, State, Zip		City, State, Zip	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005	BGDOC - NM	BGDOC - TX	NM	CO	UT
Phone:	Phone:	Remarks											
Email:	Email:												

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005	BGDOC - NM	BGDOC - TX	Remarks
10:55	4/30/2020	S	1	Sp 7-14'	1							X		
11:55	4/30/2020	S	1	Sp 21-8'	2							X		
2:23	4/30/2020	S	1	Sp 23-18'	3							X		
4:30	2020			Bottom Hole - 2'										

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Ashton Krich</u>						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only		
<u>Ashton Krich</u>	4/30/2020	3:47	<u>Natalie Gladden</u>	4/30/20	3:50	Received on ice: ☒ Y ☐ N		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1	T2	T3
<u>Natalie Gladden</u>	5/4/20	1250	<u>Justin</u>	5.4.2020	1250	AVG Temp °C <u>4</u>		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA		

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Analytical Report

Report Summary

Client: Grand Banks

Samples Received: 5/7/2020

Job Number: 19054-0003

Work Order: P005011

Project Name/Location: Rancho Verde 10 SW
#002

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue horizontal line.

Date: 5/8/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Grand Banks
PO Box 1058
Hobbs NM, 88240

Project Name: Rancho Verde 10 SW #002
Project Number: 19054-0003
Project Manager: Caleb Pilcher

Reported:
05/08/20 12:31

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP33-18'	P005011-01A	Soil	05/05/20	05/07/20	Glass Jar, 4 oz.
SP34-8'	P005011-02A	Soil	05/05/20	05/07/20	Glass Jar, 4 oz.
SP35-8'	P005011-03A	Soil	05/05/20	05/07/20	Glass Jar, 4 oz.

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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	05/08/20 12:31

SP33-18'
P005011-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	2019011	05/07/20	05/07/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2019010	05/07/20	05/07/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2019010	05/07/20	05/07/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		88.4 %		50-200	2019010	05/07/20	05/07/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.2 %		50-150	2019011	05/07/20	05/07/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2019014	05/07/20	05/07/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	05/08/20 12:31

SP34-8'
P005011-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	2019011	05/07/20	05/07/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2019010	05/07/20	05/07/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2019010	05/07/20	05/07/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		83.2 %		50-200	2019010	05/07/20	05/07/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.8 %		50-150	2019011	05/07/20	05/07/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2019014	05/07/20	05/07/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	05/08/20 12:31

SP35-8'
P005011-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	2019011	05/07/20	05/07/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2019010	05/07/20	05/07/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2019010	05/07/20	05/07/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		88.3 %		50-200	2019010	05/07/20	05/07/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.0 %		50-150	2019011	05/07/20	05/07/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	342	20.0	mg/kg	1	2019014	05/07/20	05/07/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	05/08/20 12:31

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2019011 - Purge and Trap EPA 5030A

Blank (2019011-BLK1)

Prepared & Analyzed: 05/06/20 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.24		"	8.00		103	50-150			

LCS (2019011-BS1)

Prepared & Analyzed: 05/06/20 1

Benzene	5.28	0.0250	mg/kg	5.00		106	70-130			
Toluene	5.26	0.0250	"	5.00		105	70-130			
Ethylbenzene	5.24	0.0250	"	5.00		105	70-130			
p,m-Xylene	10.5	0.0500	"	10.0		105	70-130			
o-Xylene	5.26	0.0250	"	5.00		105	70-130			
Total Xylenes	15.7	0.0250	"	15.0		105	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.30		"	8.00		104	50-150			

Matrix Spike (2019011-MS1)

Source: P005009-05

Prepared & Analyzed: 05/06/20 1

Benzene	5.30	0.0250	mg/kg	5.00	0.128	103	54.3-133			
Toluene	6.54	0.0250	"	5.00	1.37	103	61.4-130			
Ethylbenzene	7.03	0.0250	"	5.00	1.75	105	61.4-133			
p,m-Xylene	12.6	0.0500	"	10.0	2.36	102	63.3-131			
o-Xylene	6.38	0.0250	"	5.00	1.11	105	63.3-131			
Total Xylenes	19.0	0.0250	"	15.0	3.47	103	0-200			
Surrogate: 4-Bromochlorobenzene-PID	9.36		"	8.00		117	50-150			

Matrix Spike Dup (2019011-MSD1)

Source: P005009-05

Prepared & Analyzed: 05/06/20 1

Benzene	5.41	0.0250	mg/kg	5.00	0.128	106	54.3-133	1.98	20	
Toluene	6.63	0.0250	"	5.00	1.37	105	61.4-130	1.36	20	
Ethylbenzene	7.12	0.0250	"	5.00	1.75	107	61.4-133	1.39	20	
p,m-Xylene	12.7	0.0500	"	10.0	2.36	104	63.3-131	1.18	20	
o-Xylene	6.48	0.0250	"	5.00	1.11	107	63.3-131	1.51	20	
Total Xylenes	19.2	0.0250	"	15.0	3.47	105	0-200	1.29	200	
Surrogate: 4-Bromochlorobenzene-PID	9.20		"	8.00		115	50-150			

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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	05/08/20 12:31

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2019010 - DRO Extraction EPA 3570

Blank (2019010-BLK1)

Prepared & Analyzed: 05/06/20 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	47.6		"	50.0		95.2	50-200			

LCS (2019010-BS1)

Prepared & Analyzed: 05/06/20 1

Diesel Range Organics (C10-C28)	448	25.0	mg/kg	500		89.6	38-132			
Surrogate: n-Nonane	50.5		"	50.0		101	50-200			

Matrix Spike (2019010-MS1)

Source: P005009-05

Prepared & Analyzed: 05/06/20 1

Diesel Range Organics (C10-C28)	4970	250	mg/kg	500	4350	123	38-132			
Surrogate: n-Nonane	68.2		"	50.0		136	50-200			

Matrix Spike Dup (2019010-MSD1)

Source: P005009-05

Prepared & Analyzed: 05/06/20 1

Diesel Range Organics (C10-C28)	4930	250	mg/kg	500	4350	116	38-132	0.745	20	
Surrogate: n-Nonane	67.3		"	50.0		135	50-200			

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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	05/08/20 12:31

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2019011 - Purge and Trap EPA 5030A

Blank (2019011-BLK1)

Prepared & Analyzed: 05/06/20 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		"	8.00		90.3	50-150			

LCS (2019011-BS2)

Prepared & Analyzed: 05/06/20 1

Gasoline Range Organics (C6-C10)	48.6	20.0	mg/kg	50.0		97.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		"	8.00		93.3	50-150			

Matrix Spike (2019011-MS2)

Source: P005009-05

Prepared & Analyzed: 05/06/20 1

Gasoline Range Organics (C6-C10)	122	20.0	mg/kg	50.0	67.5	109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		"	8.00		96.7	50-150			

Matrix Spike Dup (2019011-MSD2)

Source: P005009-05

Prepared & Analyzed: 05/06/20 1

Gasoline Range Organics (C6-C10)	119	20.0	mg/kg	50.0	67.5	103	70-130	2.20	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		"	8.00		97.3	50-150			

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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	05/08/20 12:31

Anions by 300.0/9056A - Quality Control**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2019014 - Anion Extraction EPA 300.0/9056A**Blank (2019014-BLK1)**

Prepared: 05/07/20 0 Analyzed: 05/07/20 1

Chloride	ND	20.0	mg/kg							
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LCS (2019014-BS1)

Prepared: 05/07/20 0 Analyzed: 05/07/20 1

Chloride	261	20.0	mg/kg	250		104	90-110			
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Matrix Spike (2019014-MS1)**Source: P005011-01**

Prepared: 05/07/20 0 Analyzed: 05/07/20 1

Chloride	286	20.0	mg/kg	250	ND	114	80-120			
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Matrix Spike Dup (2019014-MSD1)**Source: P005011-01**

Prepared: 05/07/20 0 Analyzed: 05/07/20 1

Chloride	265	20.0	mg/kg	250	ND	106	80-120	7.61	20	
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QC Summary Report**Comment:**

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Grand Banks	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	05/08/20 12:31

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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labadmin@envirotech-inc.com



Analytical Report

Report Summary

Client: Grand Banks

Samples Received: 5/7/2020

Job Number: 19054-0003

Work Order: P005012

Project Name/Location: Rancho Verde

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue horizontal line.

Date: 5/8/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
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Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Grand Banks	Project Name:	Rancho Verde	Reported: 05/08/20 12:29
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Natalie Gladden	

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sp 32-14'	P005012-01A	Soil	05/04/20	05/07/20	Glass Jar, 4 oz.

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Grand Banks	Project Name:	Rancho Verde	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	05/08/20 12:29

Sp 32-14'
P005012-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %		50-150	2019011	05/07/20	05/07/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2019010	05/07/20	05/07/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2019010	05/07/20	05/07/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		86.4 %		50-200	2019010	05/07/20	05/07/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2019011	05/07/20	05/07/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.5 %		50-150	2019011	05/07/20	05/07/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	130	20.0	mg/kg	1	2019014	05/07/20	05/07/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	05/08/20 12:29

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2019011 - Purge and Trap EPA 5030A

Blank (2019011-BLK1)

Prepared & Analyzed: 05/06/20 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.24		"	8.00		103	50-150			

LCS (2019011-BS1)

Prepared & Analyzed: 05/06/20 1

Benzene	5.28	0.0250	mg/kg	5.00		106	70-130			
Toluene	5.26	0.0250	"	5.00		105	70-130			
Ethylbenzene	5.24	0.0250	"	5.00		105	70-130			
p,m-Xylene	10.5	0.0500	"	10.0		105	70-130			
o-Xylene	5.26	0.0250	"	5.00		105	70-130			
Total Xylenes	15.7	0.0250	"	15.0		105	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.30		"	8.00		104	50-150			

Matrix Spike (2019011-MS1)

Source: P005009-05

Prepared & Analyzed: 05/06/20 1

Benzene	5.30	0.0250	mg/kg	5.00	0.128	103	54.3-133			
Toluene	6.54	0.0250	"	5.00	1.37	103	61.4-130			
Ethylbenzene	7.03	0.0250	"	5.00	1.75	105	61.4-133			
p,m-Xylene	12.6	0.0500	"	10.0	2.36	102	63.3-131			
o-Xylene	6.38	0.0250	"	5.00	1.11	105	63.3-131			
Total Xylenes	19.0	0.0250	"	15.0	3.47	103	0-200			
Surrogate: 4-Bromochlorobenzene-PID	9.36		"	8.00		117	50-150			

Matrix Spike Dup (2019011-MSD1)

Source: P005009-05

Prepared & Analyzed: 05/06/20 1

Benzene	5.41	0.0250	mg/kg	5.00	0.128	106	54.3-133	1.98	20	
Toluene	6.63	0.0250	"	5.00	1.37	105	61.4-130	1.36	20	
Ethylbenzene	7.12	0.0250	"	5.00	1.75	107	61.4-133	1.39	20	
p,m-Xylene	12.7	0.0500	"	10.0	2.36	104	63.3-131	1.18	20	
o-Xylene	6.48	0.0250	"	5.00	1.11	107	63.3-131	1.51	20	
Total Xylenes	19.2	0.0250	"	15.0	3.47	105	0-200	1.29	200	
Surrogate: 4-Bromochlorobenzene-PID	9.20		"	8.00		115	50-150			

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Grand Banks	Project Name:	Rancho Verde	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	05/08/20 12:29

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2019010 - DRO Extraction EPA 3570

Blank (2019010-BLK1)

Prepared & Analyzed: 05/06/20 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	47.6		"	50.0		95.2	50-200			

LCS (2019010-BS1)

Prepared & Analyzed: 05/06/20 1

Diesel Range Organics (C10-C28)	448	25.0	mg/kg	500		89.6	38-132			
Surrogate: n-Nonane	50.5		"	50.0		101	50-200			

Matrix Spike (2019010-MS1)

Source: P005009-05

Prepared & Analyzed: 05/06/20 1

Diesel Range Organics (C10-C28)	4970	250	mg/kg	500	4350	123	38-132			
Surrogate: n-Nonane	68.2		"	50.0		136	50-200			

Matrix Spike Dup (2019010-MSD1)

Source: P005009-05

Prepared & Analyzed: 05/06/20 1

Diesel Range Organics (C10-C28)	4930	250	mg/kg	500	4350	116	38-132	0.745	20	
Surrogate: n-Nonane	67.3		"	50.0		135	50-200			

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Grand Banks	Project Name:	Rancho Verde	Reported: 05/08/20 12:29
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2019011 - Purge and Trap EPA 5030A

Blank (2019011-BLK1)

Prepared & Analyzed: 05/06/20 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		"	8.00		90.3	50-150			

LCS (2019011-BS2)

Prepared & Analyzed: 05/06/20 1

Gasoline Range Organics (C6-C10)	48.6	20.0	mg/kg	50.0		97.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		"	8.00		93.3	50-150			

Matrix Spike (2019011-MS2)

Source: P005009-05

Prepared & Analyzed: 05/06/20 1

Gasoline Range Organics (C6-C10)	122	20.0	mg/kg	50.0	67.5	109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		"	8.00		96.7	50-150			

Matrix Spike Dup (2019011-MSD2)

Source: P005009-05

Prepared & Analyzed: 05/06/20 1

Gasoline Range Organics (C6-C10)	119	20.0	mg/kg	50.0	67.5	103	70-130	2.20	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		"	8.00		97.3	50-150			

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Grand Banks	Project Name:	Rancho Verde	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Natalie Gladden	05/08/20 12:29

Anions by 300.0/9056A - Quality Control**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2019014 - Anion Extraction EPA 300.0/9056A**Blank (2019014-BLK1)**

Prepared: 05/07/20 0 Analyzed: 05/07/20 1

Chloride ND 20.0 mg/kg

LCS (2019014-BS1)

Prepared: 05/07/20 0 Analyzed: 05/07/20 1

Chloride 261 20.0 mg/kg 250 104 90-110

Matrix Spike (2019014-MS1)**Source: P005011-01**

Prepared: 05/07/20 0 Analyzed: 05/07/20 1

Chloride 286 20.0 mg/kg 250 ND 114 80-120

Matrix Spike Dup (2019014-MSD1)**Source: P005011-01**

Prepared: 05/07/20 0 Analyzed: 05/07/20 1

Chloride 265 20.0 mg/kg 250 ND 106 80-120 7.61 20

QC Summary Report**Comment:**

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Grand Banks	Project Name:	Rancho Verde	Reported: 05/08/20 12:29
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Natalie Gladden	

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Analytical Report

Report Summary

Client: Grand Banks

Samples Received: 5/8/2020

Job Number: 19054-0003

Work Order: P005015

Project Name/Location: Rancho Verde State Well
#002

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 5/9/20

Walter Hinchman, Laboratory Director



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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Grand Banks
PO Box 1058
Hobbs NM, 88240

Project Name: Rancho Verde State Well #002
Project Number: 19054-0003
Project Manager: Caleb Pilcher

Reported:
05/09/20 16:08

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP36-4'	P005015-01A	Soil	05/06/20	05/08/20	Glass Jar, 4 oz.
SW12-2'	P005015-02A	Soil	05/06/20	05/08/20	Glass Jar, 4 oz.
SW13-2'	P005015-03A	Soil	05/06/20	05/08/20	Glass Jar, 4 oz.

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Grand Banks	Project Name:	Rancho Verde State Well #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	05/09/20 16:08

SP36-4'
P005015-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2019024	05/08/20	05/08/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2019024	05/08/20	05/08/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2019024	05/08/20	05/08/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2019024	05/08/20	05/08/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2019024	05/08/20	05/08/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2019024	05/08/20	05/08/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	2019024	05/08/20	05/08/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2019021	05/08/20	05/08/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2019021	05/08/20	05/08/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		105 %		50-200	2019021	05/08/20	05/08/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2019024	05/08/20	05/08/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.1 %		50-150	2019024	05/08/20	05/08/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	60.9	20.0	mg/kg	1	2019023	05/08/20	05/08/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde State Well #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	05/09/20 16:08

SW12-2'
P005015-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2019024	05/08/20	05/08/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2019024	05/08/20	05/08/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2019024	05/08/20	05/08/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2019024	05/08/20	05/08/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2019024	05/08/20	05/08/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2019024	05/08/20	05/08/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %		50-150	2019024	05/08/20	05/08/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2019021	05/08/20	05/08/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2019021	05/08/20	05/08/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		101 %		50-200	2019021	05/08/20	05/08/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2019024	05/08/20	05/08/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.7 %		50-150	2019024	05/08/20	05/08/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2019023	05/08/20	05/08/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde State Well #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	05/09/20 16:08

SW13-2'
P005015-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2019024	05/08/20	05/08/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2019024	05/08/20	05/08/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2019024	05/08/20	05/08/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2019024	05/08/20	05/08/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2019024	05/08/20	05/08/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2019024	05/08/20	05/08/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.5 %		50-150	2019024	05/08/20	05/08/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2019021	05/08/20	05/08/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2019021	05/08/20	05/08/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		103 %		50-200	2019021	05/08/20	05/08/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2019024	05/08/20	05/08/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.8 %		50-150	2019024	05/08/20	05/08/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	2019023	05/08/20	05/08/20	EPA 300.0/9056A	
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Grand Banks	Project Name:	Rancho Verde State Well #002	Reported: 05/09/20 16:08
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2019024 - Purge and Trap EPA 5030A

Blank (2019024-BLK1)

Prepared & Analyzed: 05/08/20 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.13		"	8.00		102	50-150			

LCS (2019024-BS1)

Prepared & Analyzed: 05/08/20 1

Benzene	5.31	0.0250	mg/kg	5.00		106	70-130			
Toluene	5.30	0.0250	"	5.00		106	70-130			
Ethylbenzene	5.28	0.0250	"	5.00		106	70-130			
p,m-Xylene	10.5	0.0500	"	10.0		105	70-130			
o-Xylene	5.29	0.0250	"	5.00		106	70-130			
Total Xylenes	15.8	0.0250	"	15.0		106	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.37		"	8.00		105	50-150			

Matrix Spike (2019024-MS1)

Source: P005015-01

Prepared & Analyzed: 05/08/20 1

Benzene	5.29	0.0250	mg/kg	5.00	ND	106	54.3-133			
Toluene	5.28	0.0250	"	5.00	ND	106	61.4-130			
Ethylbenzene	5.26	0.0250	"	5.00	ND	105	61.4-133			
p,m-Xylene	10.5	0.0500	"	10.0	ND	105	63.3-131			
o-Xylene	5.26	0.0250	"	5.00	ND	105	63.3-131			
Total Xylenes	15.8	0.0250	"	15.0	ND	105	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.32		"	8.00		104	50-150			

Matrix Spike Dup (2019024-MSD1)

Source: P005015-01

Prepared & Analyzed: 05/08/20 1

Benzene	5.30	0.0250	mg/kg	5.00	ND	106	54.3-133	0.247	20	
Toluene	5.27	0.0250	"	5.00	ND	105	61.4-130	0.0995	20	
Ethylbenzene	5.26	0.0250	"	5.00	ND	105	61.4-133	0.0333	20	
p,m-Xylene	10.5	0.0500	"	10.0	ND	105	63.3-131	0.0381	20	
o-Xylene	5.27	0.0250	"	5.00	ND	105	63.3-131	0.125	20	
Total Xylenes	15.8	0.0250	"	15.0	ND	105	0-200	0.0165	200	
Surrogate: 4-Bromochlorobenzene-PID	8.31		"	8.00		104	50-150			

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Grand Banks	Project Name:	Rancho Verde State Well #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	05/09/20 16:08

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2019021 - DRO Extraction EPA 3570

Blank (2019021-BLK1)

Prepared: 05/08/20 0 Analyzed: 05/08/20 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	48.3		"	50.0		96.6	50-200			

LCS (2019021-BS1)

Prepared: 05/08/20 0 Analyzed: 05/08/20 1

Diesel Range Organics (C10-C28)	443	25.0	mg/kg	500		88.5	38-132			
Surrogate: n-Nonane	48.2		"	50.0		96.4	50-200			

Matrix Spike (2019021-MS1)

Source: P005014-01

Prepared: 05/08/20 0 Analyzed: 05/08/20 1

Diesel Range Organics (C10-C28)	572	25.0	mg/kg	500	45.2	105	38-132			
Surrogate: n-Nonane	61.1		"	50.0		122	50-200			

Matrix Spike Dup (2019021-MSD1)

Source: P005014-01

Prepared: 05/08/20 0 Analyzed: 05/08/20 1

Diesel Range Organics (C10-C28)	596	25.0	mg/kg	500	45.2	110	38-132	4.18	20	
Surrogate: n-Nonane	60.7		"	50.0		121	50-200			

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Grand Banks	Project Name:	Rancho Verde State Well #002	Reported: 05/09/20 16:08
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2019024 - Purge and Trap EPA 5030A

Blank (2019024-BLK1)

Prepared & Analyzed: 05/08/20 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		"	8.00		93.1	50-150			

LCS (2019024-BS2)

Prepared & Analyzed: 05/08/20 1

Gasoline Range Organics (C6-C10)	48.9	20.0	mg/kg	50.0		97.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		"	8.00		93.1	50-150			

Matrix Spike (2019024-MS2)

Source: P005015-01

Prepared & Analyzed: 05/08/20 1

Gasoline Range Organics (C6-C10)	49.2	20.0	mg/kg	50.0	ND	98.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		"	8.00		94.5	50-150			

Matrix Spike Dup (2019024-MSD2)

Source: P005015-01

Prepared & Analyzed: 05/08/20 1

Gasoline Range Organics (C6-C10)	51.5	20.0	mg/kg	50.0	ND	103	70-130	4.50	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		"	8.00		92.6	50-150			

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Grand Banks	Project Name:	Rancho Verde State Well #002	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	05/09/20 16:08

Anions by 300.0/9056A - Quality Control**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2019023 - Anion Extraction EPA 300.0/9056A**Blank (2019023-BLK1)**

Prepared: 05/08/20 0 Analyzed: 05/08/20 1

Chloride	ND	20.0	mg/kg							
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LCS (2019023-BS1)

Prepared: 05/08/20 0 Analyzed: 05/08/20 1

Chloride	260	20.0	mg/kg	250		104	90-110			
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Matrix Spike (2019023-MS1)**Source: P005015-01**

Prepared: 05/08/20 0 Analyzed: 05/08/20 1

Chloride	319	20.0	mg/kg	250	60.9	103	80-120			
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Matrix Spike Dup (2019023-MSD1)**Source: P005015-01**

Prepared: 05/08/20 0 Analyzed: 05/08/20 1

Chloride	317	20.0	mg/kg	250	60.9	103	80-120	0.384	20	
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QC Summary Report**Comment:**

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Grand Banks	Project Name:	Rancho Verde State Well #002	Reported: 05/09/20 16:08
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Analytical Report

Report Summary

Client: Grand Banks

Samples Received: 7/23/2020

Job Number: 19054-0003

Work Order: P007060

Project Name/Location: Rancho Verde

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 7/30/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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Envirotech, Inc. holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc. holds the Texas TNI certification T104704557-19-2 for the data reported.





Grand Banks
PO Box 1058
Hobbs NM, 88240

Project Name: Rancho Verde
Project Number: 19054-0003
Project Manager: Daniel Dominguez

Reported:
07/30/20 09:15

Sample Summary

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FL1	P007060-01A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
FL2	P007060-02A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
SW1	P007060-03A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
SW2	P007060-04A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
SW3	P007060-05A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
SW4	P007060-06A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:15
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

FL1
P007060-01 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030023
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.3 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030021
Diesel Range Organics (C10-C28)	62.2	25.0	1	07/24/20	07/24/20	
Oil Range Organics (C28-C40)	ND	50.0	1	07/24/20	07/24/20	
<i>Surrogate: n-Nonane</i>		106 %	50-200	07/24/20	07/24/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2031004
Chloride	215	20.0	1	07/27/20	07/27/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:15
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

FL2
P007060-02 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030023
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.8 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030021
Diesel Range Organics (C10-C28)	48.7	25.0	1	07/24/20	07/24/20	
Oil Range Organics (C28-C40)	ND	50.0	1	07/24/20	07/24/20	
<i>Surrogate: n-Nonane</i>		105 %	50-200	07/24/20	07/24/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2031004
Chloride	216	20.0	1	07/27/20	07/27/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:15
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

SW1
P007060-03 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030023
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.2 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030021
Diesel Range Organics (C10-C28)	ND	25.0	1	07/24/20	07/24/20	
Oil Range Organics (C28-C40)	ND	50.0	1	07/24/20	07/24/20	
<i>Surrogate: n-Nonane</i>		96.7 %	50-200	07/24/20	07/24/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2031004
Chloride	47.9	20.0	1	07/27/20	07/27/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:15
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

SW2
P007060-04 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030023
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.4 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030021
Diesel Range Organics (C10-C28)	ND	25.0	1	07/24/20	07/24/20	
Oil Range Organics (C28-C40)	ND	50.0	1	07/24/20	07/24/20	
<i>Surrogate: n-Nonane</i>		100 %	50-200	07/24/20	07/24/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2031004
Chloride	131	20.0	1	07/27/20	07/27/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:15
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

SW3
P007060-05 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030023
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.4 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030021
Diesel Range Organics (C10-C28)	ND	25.0	1	07/24/20	07/24/20	
Oil Range Organics (C28-C40)	ND	50.0	1	07/24/20	07/24/20	
<i>Surrogate: n-Nonane</i>		103 %	50-200	07/24/20	07/24/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2031004
Chloride	125	20.0	1	07/27/20	07/27/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:15
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

SW4
P007060-06 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030023
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.1 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030021
Diesel Range Organics (C10-C28)	ND	25.0	1	07/24/20	07/24/20	
Oil Range Organics (C28-C40)	ND	50.0	1	07/24/20	07/24/20	
<i>Surrogate: n-Nonane</i>		94.6 %	50-200	07/24/20	07/24/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2031004
Chloride	136	20.0	1	07/27/20	07/27/20	

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Grand Banks	Project Name:	Rancho Verde	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	07/30/20 09:15

Volatile Organics by EPA 8021B - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2030023-BLK1)

Prepared: 07/23/20 0 Analyzed: 07/23/20 1

Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.28		8.00		104	50-150			

LCS (2030023-BS1)

Prepared: 07/23/20 0 Analyzed: 07/23/20 1

Benzene	4.74	0.0250	5.00		94.8	70-130			
Toluene	4.77	0.0250	5.00		95.4	70-130			
Ethylbenzene	4.75	0.0250	5.00		95.0	70-130			
p,m-Xylene	9.52	0.0500	10.0		95.2	70-130			
o-Xylene	4.78	0.0250	5.00		95.6	70-130			
Total Xylenes	14.3	0.0250	15.0		95.3	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.31		8.00		104	50-150			

Matrix Spike (2030023-MS1)

Source: P007058-01

Prepared: 07/23/20 0 Analyzed: 07/23/20 1

Benzene	5.12	0.0250	5.00	ND	102	54.3-133			
Toluene	5.14	0.0250	5.00	ND	103	61.4-130			
Ethylbenzene	5.11	0.0250	5.00	ND	102	61.4-133			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63.3-131			
o-Xylene	5.12	0.0250	5.00	ND	102	63.3-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.32		8.00		104	50-150			

Matrix Spike Dup (2030023-MSD1)

Source: P007058-01

Prepared: 07/23/20 0 Analyzed: 07/23/20 1

Benzene	5.19	0.0250	5.00	ND	104	54.3-133	1.31	20	
Toluene	5.17	0.0250	5.00	ND	103	61.4-130	0.611	20	
Ethylbenzene	5.14	0.0250	5.00	ND	103	61.4-133	0.707	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63.3-131	0.592	20	
o-Xylene	5.16	0.0250	5.00	ND	103	63.3-131	0.849	20	
Total Xylenes	15.5	0.0250	15.0	ND	103	0-200	0.678	200	
Surrogate: 4-Bromochlorobenzene-PID	8.29		8.00		104	50-150			

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Grand Banks	Project Name:	Rancho Verde	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	07/30/20 09:15

Nonhalogenated Organics by EPA 8015D - GRO - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2030023-BLK1)

Prepared: 07/23/20 0 Analyzed: 07/23/20 1

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		8.00		91.8	50-150			

LCS (2030023-BS2)

Prepared: 07/23/20 0 Analyzed: 07/23/20 1

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.4	50-150			

Matrix Spike (2030023-MS2)

Source: P007058-01

Prepared: 07/23/20 0 Analyzed: 07/23/20 1

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0	ND	89.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	50-150			

Matrix Spike Dup (2030023-MSD2)

Source: P007058-01

Prepared: 07/23/20 0 Analyzed: 07/23/20 1

Gasoline Range Organics (C6-C10)	46.1	20.0	50.0	ND	92.2	70-130	3.54	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.0	50-150			

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:15
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

Nonhalogenated Organics by EPA 8015D - DRO/ORO - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2030021-BLK1)

Prepared: 07/23/20 0 Analyzed: 07/23/20 1

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C40)	ND	50.0							
Surrogate: n-Nonane	49.1		50.0		98.1	50-200			

LCS (2030021-BS1)

Prepared: 07/23/20 0 Analyzed: 07/23/20 1

Diesel Range Organics (C10-C28)	475	25.0	500		95.1	38-132			
Surrogate: n-Nonane	49.0		50.0		98.0	50-200			

Matrix Spike (2030021-MS1)

Source: P007058-01

Prepared: 07/23/20 0 Analyzed: 07/23/20 1

Diesel Range Organics (C10-C28)	918	25.0	500	268	130	38-132			
Surrogate: n-Nonane	54.5		50.0		109	50-200			

Matrix Spike Dup (2030021-MSD1)

Source: P007058-01

Prepared: 07/23/20 0 Analyzed: 07/23/20 1

Diesel Range Organics (C10-C28)	938	25.0	500	268	134	38-132	2.18	20	M2
Surrogate: n-Nonane	49.7		50.0		99.4	50-200			

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Grand Banks	Project Name:	Rancho Verde	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	07/30/20 09:15

Anions by EPA 300.0/9056A - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2031004-BLK1)

Prepared: 07/27/20 0 Analyzed: 07/27/20 1

Chloride	ND	20.0
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LCS (2031004-BS1)

Prepared: 07/27/20 0 Analyzed: 07/27/20 1

Chloride	248	20.0	250	99.2	90-110
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Matrix Spike (2031004-MS1)

Source: P007073-01

Prepared: 07/27/20 0 Analyzed: 07/27/20 1

Chloride	319	20.0	250	65.1	102	80-120
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Matrix Spike Dup (2031004-MSD1)

Source: P007073-01

Prepared: 07/27/20 0 Analyzed: 07/27/20 1

Chloride	317	20.0	250	65.1	101	80-120	0.695	20
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QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Grand Banks
PO Box 1058
Hobbs NM, 88240

Project Name: Rancho Verde
Project Number: 19054-0003
Project Manager: Daniel Dominguez

Reported:
07/30/20 09:15

Notes and Definitions

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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 24 Hour Emergency Response Phone: (800) 362-1879



Analytical Report

Report Summary

Client: Grand Banks

Samples Received: 7/23/2020

Job Number: 19054-0003

Work Order: P007061

Project Name/Location: Rancho Verde

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue rectangular background.

Date: 7/30/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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Envirotech, Inc. holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc. holds the Texas TNI certification T104704557-19-2 for the data reported.





Grand Banks
PO Box 1058
Hobbs NM, 88240

Project Name: Rancho Verde
Project Number: 19054-0003
Project Manager: Daniel Dominguez

Reported:
07/30/20 09:21

Sample Summary

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
C1	P007061-01A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
C2	P007061-02A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
C3	P007061-03A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
C4	P007061-04A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
C5	P007061-05A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
C6	P007061-06A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
C7	P007061-07A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
C8	P007061-08A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
C9	P007061-09A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
C10	P007061-10A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
C11	P007061-11A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
C12	P007061-12A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
C13	P007061-13A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
C14	P007061-14A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
C15	P007061-15A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
C16	P007061-16A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
C17	P007061-17A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
C18	P007061-18A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
C19	P007061-19A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
C20	P007061-20A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
C21	P007061-21A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
C22	P007061-22A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
C23	P007061-23A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.
C24	P007061-24A	Soil	07/21/20	07/23/20	Glass Jar, 4 oz.

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C1
P007061-01 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030023
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.1 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030022
Diesel Range Organics (C10-C28)	1370	50.0	2	07/23/20	07/27/20	
Oil Range Organics (C28-C40)	546	100	2	07/23/20	07/27/20	
<i>Surrogate: n-Nonane</i>		118 %	50-200	07/23/20	07/27/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2030029
Chloride	30.7	20.0	1	07/24/20	07/24/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C2
P007061-02 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030023
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.2 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030022
Diesel Range Organics (C10-C28)	1290	125	5	07/23/20	07/28/20	
Oil Range Organics (C28-C40)	578	250	5	07/23/20	07/28/20	
<i>Surrogate: n-Nonane</i>		115 %	50-200	07/23/20	07/28/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2030029
Chloride	26.0	20.0	1	07/24/20	07/24/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C3
P007061-03 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030023
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		109 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.8 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030022
Diesel Range Organics (C10-C28)	1360	125	5	07/23/20	07/28/20	
Oil Range Organics (C28-C40)	722	250	5	07/23/20	07/28/20	
<i>Surrogate: n-Nonane</i>		111 %	50-200	07/23/20	07/28/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2030029
Chloride	64.7	20.0	1	07/24/20	07/24/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C4
P007061-04 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						Batch: 2030023
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO						Batch: 2030023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.9 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						Batch: 2030022
Diesel Range Organics (C10-C28)	294	50.0	2	07/23/20	07/28/20	
Oil Range Organics (C28-C40)	225	100	2	07/23/20	07/28/20	
<i>Surrogate: n-Nonane</i>						
		120 %	50-200	07/23/20	07/28/20	
Anions by EPA 300.0/9056A						Batch: 2030029
Chloride	ND	20.0	1	07/24/20	07/24/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C5
P007061-05 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030023
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.7 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030022
Diesel Range Organics (C10-C28)	270	50.0	2	07/23/20	07/27/20	
Oil Range Organics (C28-C40)	223	100	2	07/23/20	07/27/20	
<i>Surrogate: n-Nonane</i>		114 %	50-200	07/23/20	07/27/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2030029
Chloride	ND	20.0	1	07/24/20	07/24/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C6
P007061-06 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030023
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.9 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030022
Diesel Range Organics (C10-C28)	269	50.0	2	07/23/20	07/27/20	
Oil Range Organics (C28-C40)	207	100	2	07/23/20	07/27/20	
<i>Surrogate: n-Nonane</i>		113 %	50-200	07/23/20	07/27/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2030029
Chloride	ND	20.0	1	07/24/20	07/24/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C7
P007061-07 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030023
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.1 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030022
Diesel Range Organics (C10-C28)	315	50.0	2	07/23/20	07/27/20	
Oil Range Organics (C28-C40)	246	100	2	07/23/20	07/27/20	
<i>Surrogate: n-Nonane</i>		117 %	50-200	07/23/20	07/27/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2030029
Chloride	ND	20.0	1	07/24/20	07/24/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C8
P007061-08 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030023
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.7 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030022
Diesel Range Organics (C10-C28)	276	50.0	2	07/23/20	07/27/20	
Oil Range Organics (C28-C40)	228	100	2	07/23/20	07/27/20	
<i>Surrogate: n-Nonane</i>		107 %	50-200	07/23/20	07/27/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2030029
Chloride	ND	20.0	1	07/24/20	07/24/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C9
P007061-09 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030023
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.1 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030022
Diesel Range Organics (C10-C28)	382	50.0	2	07/23/20	07/27/20	
Oil Range Organics (C28-C40)	300	100	2	07/23/20	07/27/20	
Surrogate: n-Nonane		104 %	50-200	07/23/20	07/27/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2030029
Chloride	ND	20.0	1	07/24/20	07/24/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C10
P007061-10 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030023
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.2 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030022
Diesel Range Organics (C10-C28)	409	50.0	2	07/23/20	07/27/20	
Oil Range Organics (C28-C40)	335	100	2	07/23/20	07/27/20	
<i>Surrogate: n-Nonane</i>		113 %	50-200	07/23/20	07/27/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2030029
Chloride	ND	20.0	1	07/24/20	07/24/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C11
P007061-11 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030024
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
Surrogate: 4-Bromochlorobenzene-PID	99.4 %	50-150		07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030024
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.1 %	50-150		07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030022
Diesel Range Organics (C10-C28)	164	50.0	2	07/23/20	07/27/20	
Oil Range Organics (C28-C40)	167	100	2	07/23/20	07/27/20	
Surrogate: n-Nonane	95.1 %	50-200		07/23/20	07/27/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2030029
Chloride	ND	20.0	1	07/24/20	07/24/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C12
P007061-12 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030024
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.2 %	50-150		07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030024
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.3 %	50-150		07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030022
Diesel Range Organics (C10-C28)	292	50.0	2	07/23/20	07/27/20	
Oil Range Organics (C28-C40)	248	100	2	07/23/20	07/27/20	
<i>Surrogate: n-Nonane</i>	119 %	50-200		07/23/20	07/27/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2030029
Chloride	ND	20.0	1	07/24/20	07/24/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C13
P007061-13 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030024
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
Surrogate: 4-Bromochlorobenzene-PID	98.4 %	50-150		07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030024
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	86.2 %	50-150		07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030022
Diesel Range Organics (C10-C28)	310	50.0	2	07/23/20	07/28/20	
Oil Range Organics (C28-C40)	269	100	2	07/23/20	07/28/20	
Surrogate: n-Nonane	114 %	50-200		07/23/20	07/28/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2030029
Chloride	ND	20.0	1	07/24/20	07/24/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C14
P007061-14 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030024
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.0 %	50-150		07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030024
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	87.4 %	50-150		07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030022
Diesel Range Organics (C10-C28)	394	50.0	2	07/23/20	07/28/20	
Oil Range Organics (C28-C40)	320	100	2	07/23/20	07/28/20	
<i>Surrogate: n-Nonane</i>	109 %	50-200		07/23/20	07/28/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2030029
Chloride	ND	20.0	1	07/24/20	07/24/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C15
P007061-15 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030024
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.0 %	50-150		07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030024
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	87.9 %	50-150		07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030022
Diesel Range Organics (C10-C28)	326	50.0	2	07/23/20	07/28/20	
Oil Range Organics (C28-C40)	278	100	2	07/23/20	07/28/20	
<i>Surrogate: n-Nonane</i>	110 %	50-200		07/23/20	07/28/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2030029
Chloride	ND	20.0	1	07/24/20	07/24/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C16
P007061-16 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030024
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
Surrogate: 4-Bromochlorobenzene-PID	99.6 %	50-150		07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030024
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.1 %	50-150		07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030022
Diesel Range Organics (C10-C28)	168	50.0	2	07/23/20	07/28/20	
Oil Range Organics (C28-C40)	166	100	2	07/23/20	07/28/20	
Surrogate: n-Nonane	109 %	50-200		07/23/20	07/28/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2030029
Chloride	ND	20.0	1	07/24/20	07/24/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C17
P007061-17 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030024
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.8 %	50-150		07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030024
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	85.7 %	50-150		07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030022
Diesel Range Organics (C10-C28)	282	50.0	2	07/23/20	07/28/20	
Oil Range Organics (C28-C40)	252	100	2	07/23/20	07/28/20	
<i>Surrogate: n-Nonane</i>	92.8 %	50-200		07/23/20	07/28/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2030029
Chloride	ND	20.0	1	07/24/20	07/24/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C18
P007061-18 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030024
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.6 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030024
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.4 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030022
Diesel Range Organics (C10-C28)	260	50.0	2	07/23/20	07/28/20	
Oil Range Organics (C28-C40)	213	100	2	07/23/20	07/28/20	
<i>Surrogate: n-Nonane</i>		106 %	50-200	07/23/20	07/28/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2030029
Chloride	ND	20.0	1	07/24/20	07/24/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C19
P007061-19 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030024
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.8 %	50-150		07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030024
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	84.2 %	50-150		07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030022
Diesel Range Organics (C10-C28)	329	50.0	2	07/23/20	07/28/20	
Oil Range Organics (C28-C40)	278	100	2	07/23/20	07/28/20	
<i>Surrogate: n-Nonane</i>	114 %	50-200		07/23/20	07/28/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2030029
Chloride	ND	20.0	1	07/24/20	07/24/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C20
P007061-20 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030024
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030024
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.5 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030022
Diesel Range Organics (C10-C28)	218	50.0	2	07/23/20	07/28/20	
Oil Range Organics (C28-C40)	197	100	2	07/23/20	07/28/20	
<i>Surrogate: n-Nonane</i>		106 %	50-200	07/23/20	07/28/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2030029
Chloride	ND	20.0	1	07/24/20	07/24/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C21
P007061-21 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030024
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030024
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.9 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030021
Diesel Range Organics (C10-C28)	70.2	25.0	1	07/24/20	07/24/20	
Oil Range Organics (C28-C40)	62.8	50.0	1	07/24/20	07/24/20	
<i>Surrogate: n-Nonane</i>		108 %	50-200	07/24/20	07/24/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2031008
Chloride	ND	20.0	1	07/27/20	07/28/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C22
P007061-22 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030024
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.6 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030024
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.8 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030021
Diesel Range Organics (C10-C28)	62.9	25.0	1	07/24/20	07/24/20	
Oil Range Organics (C28-C40)	70.7	50.0	1	07/24/20	07/24/20	
<i>Surrogate: n-Nonane</i>		114 %	50-200	07/24/20	07/24/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2031008
Chloride	ND	20.0	1	07/27/20	07/28/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C23
P007061-23 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030024
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030024
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.0 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030021
Diesel Range Organics (C10-C28)	61.9	25.0	1	07/24/20	07/24/20	
Oil Range Organics (C28-C40)	66.2	50.0	1	07/24/20	07/24/20	
<i>Surrogate: n-Nonane</i>		111 %	50-200	07/24/20	07/24/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2031008
Chloride	ND	20.0	1	07/27/20	07/28/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C24
P007061-24 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2030024
Benzene	ND	0.0250	1	07/23/20	07/24/20	
Toluene	ND	0.0250	1	07/23/20	07/24/20	
Ethylbenzene	ND	0.0250	1	07/23/20	07/24/20	
p,m-Xylene	ND	0.0500	1	07/23/20	07/24/20	
o-Xylene	ND	0.0250	1	07/23/20	07/24/20	
Total Xylenes	ND	0.0250	1	07/23/20	07/24/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2030024
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.5 %	50-150	07/23/20	07/24/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2030021
Diesel Range Organics (C10-C28)	57.8	25.0	1	07/24/20	07/24/20	
Oil Range Organics (C28-C40)	72.6	50.0	1	07/24/20	07/24/20	
<i>Surrogate: n-Nonane</i>		92.4 %	50-200	07/24/20	07/24/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2031008
Chloride	ND	20.0	1	07/27/20	07/28/20	

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

Volatile Organics by EPA 8021B - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2030023-BLK1)

Prepared: 07/23/20 0 Analyzed: 07/23/20 1

Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.28		8.00		104	50-150			

LCS (2030023-BS1)

Prepared: 07/23/20 0 Analyzed: 07/23/20 1

Benzene	4.74	0.0250	5.00		94.8	70-130			
Toluene	4.77	0.0250	5.00		95.4	70-130			
Ethylbenzene	4.75	0.0250	5.00		95.0	70-130			
p,m-Xylene	9.52	0.0500	10.0		95.2	70-130			
o-Xylene	4.78	0.0250	5.00		95.6	70-130			
Total Xylenes	14.3	0.0250	15.0		95.3	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.31		8.00		104	50-150			

Matrix Spike (2030023-MS1)

Source: P007058-01

Prepared: 07/23/20 0 Analyzed: 07/23/20 1

Benzene	5.12	0.0250	5.00	ND	102	54.3-133			
Toluene	5.14	0.0250	5.00	ND	103	61.4-130			
Ethylbenzene	5.11	0.0250	5.00	ND	102	61.4-133			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63.3-131			
o-Xylene	5.12	0.0250	5.00	ND	102	63.3-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.32		8.00		104	50-150			

Matrix Spike Dup (2030023-MSD1)

Source: P007058-01

Prepared: 07/23/20 0 Analyzed: 07/23/20 1

Benzene	5.19	0.0250	5.00	ND	104	54.3-133	1.31	20	
Toluene	5.17	0.0250	5.00	ND	103	61.4-130	0.611	20	
Ethylbenzene	5.14	0.0250	5.00	ND	103	61.4-133	0.707	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63.3-131	0.592	20	
o-Xylene	5.16	0.0250	5.00	ND	103	63.3-131	0.849	20	
Total Xylenes	15.5	0.0250	15.0	ND	103	0-200	0.678	200	
Surrogate: 4-Bromochlorobenzene-PID	8.29		8.00		104	50-150			

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

Volatile Organics by EPA 8021B - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2030024-BLK1)

Prepared: 07/23/20 0 Analyzed: 07/24/20 1

Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.9	50-150			

LCS (2030024-BS1)

Prepared: 07/23/20 0 Analyzed: 07/24/20 1

Benzene	5.02	0.0250	5.00		100	70-130			
Toluene	5.13	0.0250	5.00		103	70-130			
Ethylbenzene	5.07	0.0250	5.00		101	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
o-Xylene	4.96	0.0250	5.00		99.2	70-130			
Total Xylenes	15.0	0.0250	15.0		100	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.05		8.00		101	50-150			

Matrix Spike (2030024-MS1)

Source: P007061-11

Prepared: 07/23/20 0 Analyzed: 07/24/20 1

Benzene	5.11	0.0250	5.00	ND	102	54.3-133			
Toluene	5.21	0.0250	5.00	ND	104	61.4-130			
Ethylbenzene	5.16	0.0250	5.00	ND	103	61.4-133			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63.3-131			
o-Xylene	5.06	0.0250	5.00	ND	101	63.3-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.09		8.00		101	50-150			

Matrix Spike Dup (2030024-MSD1)

Source: P007061-11

Prepared: 07/23/20 0 Analyzed: 07/24/20 1

Benzene	4.97	0.0250	5.00	ND	99.4	54.3-133	2.77	20	
Toluene	5.08	0.0250	5.00	ND	102	61.4-130	2.62	20	
Ethylbenzene	5.01	0.0250	5.00	ND	100	61.4-133	2.95	20	
p,m-Xylene	9.94	0.0500	10.0	ND	99.3	63.3-131	3.03	20	
o-Xylene	4.94	0.0250	5.00	ND	98.8	63.3-131	2.47	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.2	0-200	2.84	200	
Surrogate: 4-Bromochlorobenzene-PID	8.05		8.00		101	50-150			

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Grand Banks	Project Name:	Rancho Verde	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	07/30/20 09:21

Nonhalogenated Organics by EPA 8015D - GRO - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2030023-BLK1)

Prepared: 07/23/20 0 Analyzed: 07/23/20 1

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		8.00		91.8	50-150			

LCS (2030023-BS2)

Prepared: 07/23/20 0 Analyzed: 07/23/20 1

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.4	50-150			

Matrix Spike (2030023-MS2)

Source: P007058-01

Prepared: 07/23/20 0 Analyzed: 07/23/20 1

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0	ND	89.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	50-150			

Matrix Spike Dup (2030023-MSD2)

Source: P007058-01

Prepared: 07/23/20 0 Analyzed: 07/23/20 1

Gasoline Range Organics (C6-C10)	46.1	20.0	50.0	ND	92.2	70-130	3.54	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.0	50-150			

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Grand Banks	Project Name:	Rancho Verde	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	07/30/20 09:21

Nonhalogenated Organics by EPA 8015D - GRO - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2030024-BLK1)

Prepared: 07/23/20 0 Analyzed: 07/24/20 1

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		88.0	50-150			

LCS (2030024-BS2)

Prepared: 07/23/20 0 Analyzed: 07/24/20 1

Gasoline Range Organics (C6-C10)	48.9	20.0	50.0		97.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.0	50-150			

Matrix Spike (2030024-MS2)

Source: P007061-11

Prepared: 07/23/20 0 Analyzed: 07/24/20 1

Gasoline Range Organics (C6-C10)	49.0	20.0	50.0	ND	98.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.06		8.00		88.3	50-150			

Matrix Spike Dup (2030024-MSD2)

Source: P007061-11

Prepared: 07/23/20 0 Analyzed: 07/24/20 1

Gasoline Range Organics (C6-C10)	49.9	20.0	50.0	ND	99.7	70-130	1.68	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.08		8.00		88.5	50-150			

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

Nonhalogenated Organics by EPA 8015D - DRO/ORO - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2030021-BLK1)

Prepared: 07/23/20 0 Analyzed: 07/23/20 1

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C40)	ND	50.0							
Surrogate: <i>n</i> -Nonane	49.1		50.0		98.1	50-200			

LCS (2030021-BS1)

Prepared: 07/23/20 0 Analyzed: 07/23/20 1

Diesel Range Organics (C10-C28)	475	25.0	500		95.1	38-132			
Surrogate: <i>n</i> -Nonane	49.0		50.0		98.0	50-200			

Matrix Spike (2030021-MS1)

Source: P007058-01

Prepared: 07/23/20 0 Analyzed: 07/23/20 1

Diesel Range Organics (C10-C28)	918	25.0	500	268	130	38-132			
Surrogate: <i>n</i> -Nonane	54.5		50.0		109	50-200			

Matrix Spike Dup (2030021-MSD1)

Source: P007058-01

Prepared: 07/23/20 0 Analyzed: 07/23/20 1

Diesel Range Organics (C10-C28)	938	25.0	500	268	134	38-132	2.18	20	M2
Surrogate: <i>n</i> -Nonane	49.7		50.0		99.4	50-200			

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Grand Banks	Project Name:	Rancho Verde	Reported: 07/30/20 09:21
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

Nonhalogenated Organics by EPA 8015D - DRO/ORO - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2030022-BLK1)

Prepared: 07/23/20 0 Analyzed: 07/27/20 1

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C40)	ND	50.0							
Surrogate: n-Nonane	50.9		50.0		102	50-200			

LCS (2030022-BS1)

Prepared: 07/23/20 0 Analyzed: 07/27/20 1

Diesel Range Organics (C10-C28)	510	25.0	500		102	38-132			
Surrogate: n-Nonane	51.4		50.0		103	50-200			

Matrix Spike (2030022-MS1)

Source: P007061-01

Prepared: 07/23/20 0 Analyzed: 07/27/20 1

Diesel Range Organics (C10-C28)	1990	50.0	500	1370	125	38-132			
Surrogate: n-Nonane	63.1		50.0		126	50-200			

Matrix Spike Dup (2030022-MSD1)

Source: P007061-01

Prepared: 07/23/20 0 Analyzed: 07/27/20 1

Diesel Range Organics (C10-C28)	2090	50.0	500	1370	144	38-132	4.67	20	M2
Surrogate: n-Nonane	62.2		50.0		124	50-200			

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Grand Banks	Project Name:	Rancho Verde	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	07/30/20 09:21

Anions by EPA 300.0/9056A - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2030029-BLK1)

Prepared & Analyzed: 07/24/20 1

Chloride	ND	20.0
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LCS (2030029-BS1)

Prepared & Analyzed: 07/24/20 1

Chloride	250	20.0	250	100	90-110
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Matrix Spike (2030029-MS1)

Source: P007061-01

Prepared & Analyzed: 07/24/20 1

Chloride	281	20.0	250	30.7	100	80-120
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Matrix Spike Dup (2030029-MSD1)

Source: P007061-01

Prepared & Analyzed: 07/24/20 1

Chloride	282	20.0	250	30.7	101	80-120	0.472	20
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Grand Banks	Project Name:	Rancho Verde	
PO Box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	07/30/20 09:21

Anions by EPA 300.0/9056A - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2031008-BLK1)

Prepared: 07/27/20 0 Analyzed: 07/27/20 1

Chloride	ND	20.0
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LCS (2031008-BS1)

Prepared: 07/27/20 0 Analyzed: 07/27/20 2

Chloride	248	20.0	250	99.4	90-110
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Matrix Spike (2031008-MS1)

Source: P007068-01 Prepared: 07/27/20 0 Analyzed: 07/27/20 2

Chloride	326	20.0	250	59.2	107	80-120
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Matrix Spike Dup (2031008-MSD1)

Source: P007068-01 Prepared: 07/27/20 0 Analyzed: 07/27/20 2

Chloride	301	20.0	250	59.2	96.7	80-120	7.93	20
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QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Grand Banks
PO Box 1058
Hobbs NM, 88240

Project Name: Rancho Verde
Project Number: 19054-0003
Project Manager: Daniel Dominguez

Reported:
07/30/20 09:21

Notes and Definitions

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information

Chain of Custody

Page 1 of 3

Client: <u>Grand BANKS</u>				Bill To				Lab Use Only				TAT		EPA Program							
Project: <u>Rancho Verde</u>				Attention:				Lab WO#		Job Number		1D	3D	RCRA	CWA	SDWA					
Project Manager: <u>Daniel Dominguez</u>				Address:				<u>P 007061</u>		<u>19054.0003</u>											
Address:				City, State, Zip				Analysis and Method								State					
City, State, Zip				Phone:				DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	BGDOC - TX	NM	CO	UT	AZ
Phone:				Email:														TX	OK		
Email: <u>pm@hungry-horse.com</u>																					
Report due by:																					
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number																Remarks
	7/21/20	S	1	C1	1											X					
	7/21/20			C2	2											X					
	7/21/20			C3	3											X					
	7/21/20			C4	4											X					
	7/21/20			C5	5											X					
	7/21/20			C6	6											X					
	7/21/20			C7	7											X					
	7/21/20			C8	8											X					
	7/21/20			C9	9											X					
	7/21/20			C10	10											X					
Additional Instructions:																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only									
<u>[Signature]</u>		7/22/20		1035		<u>[Signature]</u>		7-22-2020		1035		Received on ice: <u>Y</u> / N									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3									
<u>[Signature]</u>		7-22-2020		1640		<u>[Signature]</u>		7/23/20		9:50											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>									
<u>[Signature]</u>						<u>[Signature]</u>															
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					

Project Information

Chain of Custody

Page 2 of 3

Client: <u>Grand Banks</u>				Bill To				Lab Use Only				TAT		EPA Program					
Project: <u>Rancho Verde</u>				Attention: _____				Lab WO# <u>P007061</u>		Job Number <u>190540003</u>		1D 3D		RCRA CWA SDWA					
Project Manager: <u>Daniel Dominguez</u>				Address: _____				Analysis and Method								State			
Address: _____				City, State, Zip _____												NM CO UT AZ			
City, State, Zip _____				Phone: _____												TX OK			
Phone: _____				Email: _____															
Email: <u>pm@hungry-horse.com</u>																			
Report due by: _____																			
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	BGDOC - TX			Remarks	
	<u>7/21/20</u>	<u>S</u>	<u>1</u>	<u>C11</u>	<u>11</u>									<u>X</u>					
	<u>7/21/20</u>			<u>C12</u>	<u>12</u>									<u>X</u>					
	<u>7/21/20</u>			<u>C13</u>	<u>13</u>									<u>X</u>					
	<u>7/21/20</u>			<u>C14</u>	<u>14</u>									<u>X</u>					
	<u>7/21/20</u>			<u>C15</u>	<u>15</u>									<u>X</u>					
	<u>7/21/20</u>			<u>C16</u>	<u>16</u>									<u>X</u>					
	<u>7/21/20</u>			<u>C17</u>	<u>17</u>									<u>X</u>					
	<u>7/21/20</u>			<u>C18</u>	<u>18</u>									<u>X</u>					
	<u>7/21/20</u>			<u>C19</u>	<u>19</u>									<u>X</u>					
	<u>7/21/2</u>			<u>C20</u>	<u>20</u>									<u>X</u>					
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____																			
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																			
Relinquished by: (Signature) <u>[Signature]</u>		Date <u>7/22/20</u>		Time <u>1035</u>		Received by: (Signature) <u>[Signature]</u>		Date <u>7-22-2020</u>		Time <u>1035</u>		Lab Use Only							
Relinquished by: (Signature) <u>[Signature]</u>		Date <u>7-22-2020</u>		Time <u>1640</u>		Received by: (Signature) <u>[Signature]</u>		Date <u>7/23/20</u>		Time <u>9:50</u>		Received on ice: <u>Y</u> / N							
Relinquished by: (Signature) _____		Date _____		Time _____		Received by: (Signature) _____		Date _____		Time _____		T1 _____ T2 _____ T3 _____							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____												AVG Temp °C <u>4</u>							
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Project Information

Chain of Custody

Page 3 of 3

Client: Grand Banks				Bill To				Lab Use Only				TAT		EPA Program							
Project: Rancho Verde				Attention:				Lab WO#		Job Number		1D	3D	RCRA	CWA	SDWA					
Project Manager: Daniel Dominguez				Address:				P 007061		19054-000											
Address:				City, State, Zip				Analysis and Method								State					
City, State, Zip				Phone:				DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC - NM	BGDOC - TX		NM	CO	UT	AZ
Phone:				Email:														TX	OK		
Email: pm@hungry-horse.com				Report due by:																	
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number															Remarks	
	7/21/20	S	1	C21	21																
	7/21/20	S	1	C22	22																
	7/21/20	S	1	C23	23																
	7/21/20	S	1	C24	24																
Additional Instructions:																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Received on ice: <u>Y</u> / N									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 _____ T2 _____ T3 _____									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					



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24 Hour Emergency Response Phone (800) 362-1879

Ph (505) 632-1881 Fx (505) 632-1865

envirotech-inc.com
labadmin@envirotech-inc.com



Analytical Report

Report Summary

Client: Cambrien

Samples Received: 8/13/2020

Job Number: 19054-0003

Work Order: P008033

Project Name/Location: Grand Banks

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue horizontal line.

Date: 8/19/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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Envirotech, Inc. holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc. holds the Texas TNI certification T104704557-19-2 for the data reported.





Cambrien
PO box 1058
Hobbs NM, 88240

Project Name: Grand Banks
Project Number: 19054-0003
Project Manager: Daniel Dominguez

Reported:
08/19/20 16:27

Sample Summary

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
C1b	P008033-01A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
C2b	P008033-02A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
C3b	P008033-03A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.

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Cambrien	Project Name:	Grand Banks	Reported: 08/19/20 16:27
PO box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C1b
P008033-01 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2033034
Benzene	ND	0.0250	1	08/14/20	08/14/20	
Toluene	ND	0.0250	1	08/14/20	08/14/20	
Ethylbenzene	ND	0.0250	1	08/14/20	08/14/20	
p,m-Xylene	ND	0.0500	1	08/14/20	08/14/20	
o-Xylene	ND	0.0250	1	08/14/20	08/14/20	
Total Xylenes	ND	0.0250	1	08/14/20	08/14/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	50-150	08/14/20	08/14/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2033034
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/14/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.4 %	50-150	08/14/20	08/14/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20	
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20	
<i>Surrogate: n-Nonane</i>		106 %	50-200	08/14/20	08/15/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2033041
Chloride	218	20.0	1	08/14/20	08/15/20	

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Cambrien	Project Name:	Grand Banks	Reported: 08/19/20 16:27
PO box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C2b
P008033-02 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2033034
Benzene	ND	0.0250	1	08/14/20	08/14/20	
Toluene	ND	0.0250	1	08/14/20	08/14/20	
Ethylbenzene	ND	0.0250	1	08/14/20	08/14/20	
p,m-Xylene	ND	0.0500	1	08/14/20	08/14/20	
o-Xylene	ND	0.0250	1	08/14/20	08/14/20	
Total Xylenes	ND	0.0250	1	08/14/20	08/14/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	50-150	08/14/20	08/14/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2033034
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/14/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.5 %	50-150	08/14/20	08/14/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20	
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20	
<i>Surrogate: n-Nonane</i>		107 %	50-200	08/14/20	08/15/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2033041
Chloride	264	20.0	1	08/14/20	08/15/20	

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Cambrien	Project Name:	Grand Banks	Reported: 08/19/20 16:27
PO box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

C3b
P008033-03 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2033034
Benzene	ND	0.0250	1	08/14/20	08/14/20	
Toluene	ND	0.0250	1	08/14/20	08/14/20	
Ethylbenzene	ND	0.0250	1	08/14/20	08/14/20	
p,m-Xylene	ND	0.0500	1	08/14/20	08/14/20	
o-Xylene	ND	0.0250	1	08/14/20	08/14/20	
Total Xylenes	ND	0.0250	1	08/14/20	08/14/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	50-150	08/14/20	08/14/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2033034
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/14/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.7 %	50-150	08/14/20	08/14/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20	
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20	
<i>Surrogate: n-Nonane</i>		106 %	50-200	08/14/20	08/15/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2033041
Chloride	279	20.0	1	08/14/20	08/15/20	

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Cambrien	Project Name:	Grand Banks	Reported: 08/19/20 16:27
PO box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	

Volatile Organics by EPA 8021B - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2033034-BLK1)

Prepared: 08/14/20 0 Analyzed: 08/18/20 1

Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.08		8.00		101	50-150			

LCS (2033034-BS1)

Prepared: 08/14/20 0 Analyzed: 08/18/20 1

Benzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.14	0.0250	5.00		103	70-130			
Ethylbenzene	5.11	0.0250	5.00		102	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
o-Xylene	5.16	0.0250	5.00		103	70-130			
Total Xylenes	15.4	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.22		8.00		103	50-150			

Matrix Spike (2033034-MS1)

Source: P008024-01

Prepared: 08/14/20 0 Analyzed: 08/18/20 1

Benzene	4.93	0.0250	5.00	ND	98.7	54-133			
Toluene	5.02	0.0250	5.00	ND	100	61-130			
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133			
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
o-Xylene	5.05	0.0250	5.00	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.36		8.00		104	50-150			

Matrix Spike Dup (2033034-MSD1)

Source: P008024-01

Prepared: 08/14/20 0 Analyzed: 08/18/20 1

Benzene	4.86	0.0250	5.00	ND	97.3	54-133	1.45	20	
Toluene	4.92	0.0250	5.00	ND	98.5	61-130	2.02	20	
Ethylbenzene	4.92	0.0250	5.00	ND	98.4	61-133	2.05	20	
p,m-Xylene	9.83	0.0500	10.0	ND	98.3	63-131	2.14	20	
o-Xylene	4.96	0.0250	5.00	ND	99.1	63-131	1.84	20	
Total Xylenes	14.8	0.0250	15.0	ND	98.6	63-131	2.04	20	
Surrogate: 4-Bromochlorobenzene-PID	8.28		8.00		104	50-150			

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Cambrien	Project Name:	Grand Banks	
PO box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	08/19/20 16:27

Nonhalogenated Organics by EPA 8015D - GRO - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2033034-BLK1)

Prepared: 08/14/20 0 Analyzed: 08/18/20 1

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.8	50-150			

LCS (2033034-BS2)

Prepared: 08/14/20 0 Analyzed: 08/18/20 1

Gasoline Range Organics (C6-C10)	43.7	20.0	50.0		87.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	50-150			

Matrix Spike (2033034-MS2)

Source: P008024-01

Prepared: 08/14/20 0 Analyzed: 08/18/20 1

Gasoline Range Organics (C6-C10)	46.0	20.0	50.0	ND	92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	50-150			

Matrix Spike Dup (2033034-MSD2)

Source: P008024-01

Prepared: 08/14/20 0 Analyzed: 08/18/20 1

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130	1.71	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.4	50-150			

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Cambrien	Project Name:	Grand Banks	
PO box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	08/19/20 16:27

Nonhalogenated Organics by EPA 8015D - DRO/ORO - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2033036-BLK1)

Prepared: 08/14/20 0 Analyzed: 08/14/20 2

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C40)	ND	50.0							
Surrogate: n-Nonane	53.5		50.0		107	50-200			

LCS (2033036-BS1)

Prepared: 08/14/20 0 Analyzed: 08/15/20 0

Diesel Range Organics (C10-C28)	470	25.0	500		94.0	38-132			
Surrogate: n-Nonane	54.4		50.0		109	50-200			

Matrix Spike (2033036-MS1)

Source: P008033-01

Prepared: 08/14/20 0 Analyzed: 08/15/20 0

Diesel Range Organics (C10-C28)	471	25.0	500	ND	94.3	38-132			
Surrogate: n-Nonane	51.3		50.0		103	50-200			

Matrix Spike Dup (2033036-MSD1)

Source: P008033-01

Prepared: 08/14/20 0 Analyzed: 08/15/20 0

Diesel Range Organics (C10-C28)	477	25.0	500	ND	95.4	38-132	1.13	20	
Surrogate: n-Nonane	53.4		50.0		107	50-200			

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Cambrien	Project Name:	Grand Banks	
PO box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	08/19/20 16:27

Anions by EPA 300.0/9056A - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2033041-BLK1)

Prepared: 08/14/20 1 Analyzed: 08/15/20 0

Chloride ND 20.0

LCS (2033041-BS1)

Prepared: 08/14/20 1 Analyzed: 08/15/20 0

Chloride 275 20.0 250 110 90-110

Matrix Spike (2033041-MS1)

Source: P008024-01 Prepared: 08/14/20 1 Analyzed: 08/15/20 0

Chloride 444 20.0 250 211 93.1 80-120

Matrix Spike Dup (2033041-MSD1)

Source: P008024-01 Prepared: 08/14/20 1 Analyzed: 08/15/20 0

Chloride 479 20.0 250 211 107 80-120 7.63 20

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Cambrien
PO box 1058
Hobbs NM, 88240

Project Name: Grand Banks
Project Number: 19054-0003
Project Manager: Daniel Dominguez

Reported:
08/19/20 16:27

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information

Chain of Custody

Page 1 of 1

Client: <u>Cambrien</u>					Bill To					Lab Use Only						TAT		EPA Program											
Project: <u>Grand Banks</u>					Attention: _____					Lab WO# <u>P008033</u>			Job Number <u>19054-0007</u>			1D	3D	RCRA	CWA	SDWA									
Project Manager: <u>Daniel Dominguez</u>					Address: _____					Analysis and Method												State							
Address: _____					City, State, Zip _____																	NM				CO	UT	AZ	
City, State, Zip _____					Phone: _____																	TX				OK			
Email: <u>pm@shullman-100.com</u>					Email: _____																								
Report due by: _____																													

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	BGDOC - TX	Remarks
	8/3/20	S	1	C1b	1									
	8/3/20	S	1	C2b	2									
	8/3/20	S	1	C3b	3									

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) _____	Date <u>8/12/20</u>	Time <u>1525</u>	Received by: (Signature) _____	Date <u>8-12-2020</u>	Time <u>1525</u>	Lab Use Only Received on ice: <u>Y</u> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4.0</u>
Relinquished by: (Signature) _____	Date <u>8-12-2020</u>	Time <u>1700</u>	Received by: (Signature) _____	Date <u>8/13/20</u>	Time <u>10:00</u>	
Relinquished by: (Signature) _____	Date _____	Time _____	Received by: (Signature) _____	Date _____	Time _____	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Certificate of Analysis Summary 687926



Hungry Horse LLC, Hobbs, NM

Project Name: Rancho Verde

Project Id:

Date Received in Lab: Wed 02.10.2021 11:45

Contact: Lindsey Nevels

Report Date: 02.18.2021 10:55

Project Location: GrandBanks

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	687926-001	687926-002	687926-003	687926-004	687926-005	687926-006
	<i>Field Id:</i>	C4-B	C5-B	C6-B	C7-B	C8-B	C9-B
	<i>Depth:</i>	6- In	6- In	6- In	6- In	6- In	6- In
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	02.08.2021 00:00	02.08.2021 00:00	02.08.2021 00:00	02.08.2021 00:00	02.08.2021 00:00	02.08.2021 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	02.10.2021 16:30	02.10.2021 16:30	02.10.2021 16:30	02.10.2021 16:30	02.10.2021 16:30	02.10.2021 16:30
	<i>Analyzed:</i>	02.10.2021 22:12	02.10.2021 22:32	02.10.2021 22:53	02.10.2021 23:13	02.10.2021 23:33	02.10.2021 23:54
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199
m,p-Xylenes		<0.00399 0.00399	<0.00400 0.00400	<0.00398 0.00398	<0.00398 0.00398	<0.00396 0.00396	<0.00398 0.00398
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199
Chloride by EPA 300	<i>Extracted:</i>	02.12.2021 09:30	02.12.2021 09:30	02.12.2021 09:30	02.12.2021 09:30	02.12.2021 09:30	02.12.2021 09:30
	<i>Analyzed:</i>	02.12.2021 18:31	02.12.2021 18:36	02.12.2021 18:42	02.12.2021 18:47	02.12.2021 18:52	02.12.2021 18:58
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		53.8 4.95	60.9 4.99	54.0 4.99	50.4 5.02	64.5 5.00	69.8 5.00
TPH By SW8015 Mod	<i>Extracted:</i>	02.10.2021 12:00	02.10.2021 12:00	02.10.2021 12:00	02.10.2021 12:00	02.10.2021 12:00	02.10.2021 12:00
	<i>Analyzed:</i>	02.10.2021 14:53	02.10.2021 15:56	02.10.2021 16:17	02.10.2021 16:38	02.10.2021 17:00	02.10.2021 17:21
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0
Total TPH		<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0

BRL - Below Reporting Limit

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



Hungry Horse LLC, Hobbs, NM

Project Name: Rancho Verde

Project Id:

Date Received in Lab: Wed 02.10.2021 11:45

Contact: Lindsey Nevels

Report Date: 02.18.2021 10:55

Project Location: GrandBanks

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	687926-007	687926-008	687926-009	687926-010	687926-011	687926-012
	Field Id:	C10-B	C11-B	C12-B	C13-B	C14-B	C15-B
	Depth:	6- In	6- In	6- In	6- In	6- In	6- In
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	02.08.2021 00:00	02.08.2021 00:00	02.08.2021 00:00	02.08.2021 00:00	02.08.2021 00:00	02.08.2021 00:00
BTEX by EPA 8021B	Extracted:	02.10.2021 16:30	02.10.2021 16:30	02.10.2021 16:30	02.10.2021 16:30	02.10.2021 16:30	02.10.2021 16:30
	Analyzed:	02.11.2021 00:14	02.11.2021 00:35	02.11.2021 00:55	02.11.2021 01:16	02.11.2021 02:38	02.11.2021 02:59
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200
Toluene		<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200
Ethylbenzene		<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	0.00208 0.00202	<0.00198 0.00198	<0.00200 0.00200
m,p-Xylenes		<0.00402 0.00402	<0.00399 0.00399	<0.00403 0.00403	<0.00403 0.00403	<0.00397 0.00397	<0.00400 0.00400
o-Xylene		<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200
Total Xylenes		<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200
Total BTEX		<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	0.00208 0.00202	<0.00198 0.00198	<0.00200 0.00200
Chloride by EPA 300	Extracted:	02.12.2021 09:30	02.12.2021 15:45	02.12.2021 15:45	02.12.2021 15:45	02.12.2021 15:45	02.12.2021 17:00
	Analyzed:	02.12.2021 19:03	02.12.2021 21:27	02.12.2021 21:32	02.12.2021 21:38	02.12.2021 21:43	02.12.2021 22:31
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		57.6 5.00	53.1 5.02	60.9 4.99	61.3 5.05	58.0 5.05	47.1 X 5.02
TPH By SW8015 Mod	Extracted:	02.10.2021 12:00	02.10.2021 12:00	02.10.2021 12:00	02.10.2021 12:00	02.10.2021 12:00	02.10.2021 12:00
	Analyzed:	02.10.2021 17:43	02.10.2021 18:05	02.10.2021 18:26	02.10.2021 18:48	02.10.2021 19:31	02.10.2021 19:53
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Total TPH		<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 687926



Hungry Horse LLC, Hobbs, NM

Project Name: Rancho Verde

Project Id:

Date Received in Lab: Wed 02.10.2021 11:45

Contact: Lindsey Nevels

Report Date: 02.18.2021 10:55

Project Location: GrandBanks

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	687926-013	687926-014	687926-015	687926-016	687926-017	687926-018
	Field Id:	C16-B	C17-B	C18-B	C19-B	C20-B	C21-B
	Depth:	6- In	6- In	6- In	6- In	6- In	6- In
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	02.08.2021 00:00	02.08.2021 00:00	02.08.2021 00:00	02.08.2021 00:00	02.08.2021 00:00	02.08.2021 00:00
BTEX by EPA 8021B	Extracted:	02.10.2021 16:30	02.10.2021 16:30	02.10.2021 16:30	02.10.2021 16:30	02.10.2021 16:30	02.10.2021 16:30
	Analyzed:	02.11.2021 03:19	02.11.2021 03:39	02.11.2021 04:00	02.11.2021 04:20	02.11.2021 04:41	02.11.2021 05:01
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200
Toluene		<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200
Ethylbenzene		<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200
m,p-Xylenes		<0.00402 0.00402	<0.00402 0.00402	<0.00402 0.00402	<0.00398 0.00398	<0.00404 0.00404	<0.00399 0.00399
o-Xylene		<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200
Total Xylenes		<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200
Total BTEX		<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200
Chloride by EPA 300	Extracted:	02.12.2021 17:00	02.12.2021 17:00	02.12.2021 17:00	02.12.2021 17:00	02.12.2021 17:00	02.12.2021 17:00
	Analyzed:	02.12.2021 22:47	02.12.2021 22:52	02.12.2021 22:57	02.12.2021 23:03	02.12.2021 23:19	02.12.2021 23:24
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		49.4 4.96	58.7 5.00	59.2 5.03	43.5 4.99	53.0 4.97	83.1 4.97
TPH By SW8015 Mod	Extracted:	02.10.2021 12:00	02.10.2021 12:00	02.10.2021 12:00	02.10.2021 12:00	02.10.2021 12:00	02.10.2021 12:00
	Analyzed:	02.10.2021 20:15	02.10.2021 20:36	02.10.2021 20:58	02.10.2021 21:20	02.10.2021 21:41	02.10.2021 22:03
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Diesel Range Organics (DRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Total TPH		<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 687926



Hungry Horse LLC, Hobbs, NM

Project Name: Rancho Verde

Project Id:

Date Received in Lab: Wed 02.10.2021 11:45

Contact: Lindsey Nevels

Report Date: 02.18.2021 10:55

Project Location: GrandBanks

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	687926-019	687926-020	687926-021			
	Field Id:	C22-B	C23-B	C24-B			
	Depth:	6- In	6- In	6- In			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	02.08.2021 00:00	02.08.2021 00:00	02.08.2021 00:00			
BTEX by EPA 8021B	Extracted:	02.10.2021 16:30	02.10.2021 16:30	02.10.2021 17:00			
	Analyzed:	02.11.2021 05:22	02.11.2021 05:42	02.11.2021 09:05			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198			
Toluene		<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198			
Ethylbenzene		<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198			
m,p-Xylenes		<0.00398 0.00398	<0.00398 0.00398	<0.00396 0.00396			
o-Xylene		<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198			
Total Xylenes		<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198			
Total BTEX		<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198			
Chloride by EPA 300	Extracted:	02.12.2021 17:00	02.12.2021 17:00	02.12.2021 17:00			
	Analyzed:	02.12.2021 23:29	02.12.2021 23:35	02.12.2021 23:40			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		78.7 4.99	47.4 4.98	47.2 5.03			
TPH By SW8015 Mod	Extracted:	02.10.2021 12:00	02.10.2021 12:00	02.10.2021 17:00			
	Analyzed:	02.10.2021 22:25	02.10.2021 22:47	02.11.2021 04:09			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0			
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0			
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0			
Total TPH		<50.0 50.0	<49.9 49.9	<50.0 50.0			

BRL - Below Reporting Limit

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



Analytical Report 687926

for

Hungry Horse LLC

Project Manager: Lindsey Nevels

Rancho Verde

02.18.2021

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

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

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

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



02.18.2021

Project Manager: **Lindsey Nevels**

Hungry Horse LLC

P. O. Box 1058

Hobbs, NM 88241

Reference: Eurofins Xenco, LLC Report No(s): **687926**

Rancho Verde

Project Address: GrandBanks

Lindsey Nevels:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 687926. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 687926 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

A handwritten signature in black ink that reads "Holly Taylor".

Holly Taylor
Project Manager

A Small Business and Minority Company

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

**Sample Cross Reference 687926****Hungry Horse LLC, Hobbs, NM**

Rancho Verde

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
C4-B	S	02.08.2021 00:00	6 In	687926-001
C5-B	S	02.08.2021 00:00	6 In	687926-002
C6-B	S	02.08.2021 00:00	6 In	687926-003
C7-B	S	02.08.2021 00:00	6 In	687926-004
C8-B	S	02.08.2021 00:00	6 In	687926-005
C9-B	S	02.08.2021 00:00	6 In	687926-006
C10-B	S	02.08.2021 00:00	6 In	687926-007
C11-B	S	02.08.2021 00:00	6 In	687926-008
C12-B	S	02.08.2021 00:00	6 In	687926-009
C13-B	S	02.08.2021 00:00	6 In	687926-010
C14-B	S	02.08.2021 00:00	6 In	687926-011
C15-B	S	02.08.2021 00:00	6 In	687926-012
C16-B	S	02.08.2021 00:00	6 In	687926-013
C17-B	S	02.08.2021 00:00	6 In	687926-014
C18-B	S	02.08.2021 00:00	6 In	687926-015
C19-B	S	02.08.2021 00:00	6 In	687926-016
C20-B	S	02.08.2021 00:00	6 In	687926-017
C21-B	S	02.08.2021 00:00	6 In	687926-018
C22-B	S	02.08.2021 00:00	6 In	687926-019
C23-B	S	02.08.2021 00:00	6 In	687926-020
C24-B	S	02.08.2021 00:00	6 In	687926-021



CASE NARRATIVE

Client Name: Hungry Horse LLC

Project Name: Rancho Verde

Project ID:
Work Order Number(s): 687926

Report Date: 02.18.2021
Date Received: 02.10.2021

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3151010 Chloride by EPA 300

Lab Sample ID 688063-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 687926-012, -013, -014, -015, -016, -017, -018, -019, -020, -021.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C4-B** Matrix: Soil Date Received: 02.10.2021 11:45
 Lab Sample Id: 687926-001 Date Collected: 02.08.2021 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE
 Analyst: CHE Date Prep: 02.12.2021 09:30 % Moisture:
 Seq Number: 3151009 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	53.8	4.95	mg/kg	02.12.2021 18:31		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 02.10.2021 12:00 % Moisture:
 Seq Number: 3150869 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.10.2021 14:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.10.2021 14:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.10.2021 14:53	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.10.2021 14:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	02.10.2021 14:53	
o-Terphenyl	84-15-1	98	%	70-130	02.10.2021 14:53	



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C4-B**
Lab Sample Id: 687926-001

Matrix: Soil
Date Collected: 02.08.2021 00:00

Date Received: 02.10.2021 11:45
Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 02.10.2021 16:30

% Moisture:
Basis: Wet Weight

Seq Number: 3150699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.10.2021 22:12	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.10.2021 22:12	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.10.2021 22:12	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.10.2021 22:12	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.10.2021 22:12	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.10.2021 22:12	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.10.2021 22:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	114	%	70-130	02.10.2021 22:12		
1,4-Difluorobenzene	540-36-3	88	%	70-130	02.10.2021 22:12		



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C5-B** Matrix: Soil Date Received: 02.10.2021 11:45
 Lab Sample Id: 687926-002 Date Collected: 02.08.2021 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE
 Analyst: CHE Date Prep: 02.12.2021 09:30 % Moisture:
 Seq Number: 3151009 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	60.9	4.99	mg/kg	02.12.2021 18:36		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 02.10.2021 12:00 % Moisture:
 Seq Number: 3150869 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.10.2021 15:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	02.10.2021 15:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.10.2021 15:56	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	02.10.2021 15:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	02.10.2021 15:56	
o-Terphenyl	84-15-1	81	%	70-130	02.10.2021 15:56	



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C5-B**
Lab Sample Id: 687926-002

Matrix: Soil
Date Collected: 02.08.2021 00:00

Date Received: 02.10.2021 11:45
Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 02.10.2021 16:30

% Moisture:
Basis: Wet Weight

Seq Number: 3150699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.10.2021 22:32	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.10.2021 22:32	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.10.2021 22:32	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	02.10.2021 22:32	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.10.2021 22:32	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.10.2021 22:32	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.10.2021 22:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	86	%	70-130	02.10.2021 22:32		
4-Bromofluorobenzene	460-00-4	109	%	70-130	02.10.2021 22:32		



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C6-B** Matrix: Soil Date Received: 02.10.2021 11:45
 Lab Sample Id: 687926-003 Date Collected: 02.08.2021 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE
 Analyst: CHE Date Prep: 02.12.2021 09:30 % Moisture:
 Seq Number: 3151009 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	54.0	4.99	mg/kg	02.12.2021 18:42		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 02.10.2021 12:00 % Moisture:
 Seq Number: 3150869 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.10.2021 16:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.10.2021 16:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.10.2021 16:17	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.10.2021 16:17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	111	%	70-130	02.10.2021 16:17		
o-Terphenyl	84-15-1	126	%	70-130	02.10.2021 16:17		



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C6-B**
Lab Sample Id: 687926-003

Matrix: Soil
Date Collected: 02.08.2021 00:00

Date Received: 02.10.2021 11:45
Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 02.10.2021 16:30

% Moisture:
Basis: Wet Weight

Seq Number: 3150699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.10.2021 22:53	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.10.2021 22:53	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.10.2021 22:53	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.10.2021 22:53	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.10.2021 22:53	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.10.2021 22:53	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.10.2021 22:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	02.10.2021 22:53	
4-Bromofluorobenzene	460-00-4	102	%	70-130	02.10.2021 22:53	



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C7-B** Matrix: Soil Date Received: 02.10.2021 11:45
 Lab Sample Id: 687926-004 Date Collected: 02.08.2021 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE
 Analyst: CHE Date Prep: 02.12.2021 09:30 % Moisture:
 Seq Number: 3151009 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	50.4	5.02	mg/kg	02.12.2021 18:47		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 02.10.2021 12:00 % Moisture:
 Seq Number: 3150869 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.10.2021 16:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.10.2021 16:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.10.2021 16:38	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.10.2021 16:38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	81	%	70-130	02.10.2021 16:38		
o-Terphenyl	84-15-1	78	%	70-130	02.10.2021 16:38		



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C7-B**
Lab Sample Id: 687926-004

Matrix: Soil
Date Collected: 02.08.2021 00:00

Date Received: 02.10.2021 11:45
Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 02.10.2021 16:30

% Moisture:
Basis: Wet Weight

Seq Number: 3150699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.10.2021 23:13	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.10.2021 23:13	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.10.2021 23:13	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.10.2021 23:13	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.10.2021 23:13	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.10.2021 23:13	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.10.2021 23:13	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	114	%	70-130	02.10.2021 23:13		
1,4-Difluorobenzene	540-36-3	88	%	70-130	02.10.2021 23:13		



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C8-B** Matrix: Soil Date Received: 02.10.2021 11:45
 Lab Sample Id: 687926-005 Date Collected: 02.08.2021 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE
 Analyst: CHE Date Prep: 02.12.2021 09:30 % Moisture:
 Seq Number: 3151009 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	64.5	5.00	mg/kg	02.12.2021 18:52		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 02.10.2021 12:00 % Moisture:
 Seq Number: 3150869 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.10.2021 17:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.10.2021 17:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.10.2021 17:00	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.10.2021 17:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-130	02.10.2021 17:00	
o-Terphenyl	84-15-1	106	%	70-130	02.10.2021 17:00	



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C8-B**
Lab Sample Id: 687926-005

Matrix: Soil
Date Collected: 02.08.2021 00:00

Date Received: 02.10.2021 11:45
Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 02.10.2021 16:30

% Moisture:
Basis: Wet Weight

Seq Number: 3150699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.10.2021 23:33	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.10.2021 23:33	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.10.2021 23:33	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	02.10.2021 23:33	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.10.2021 23:33	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.10.2021 23:33	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.10.2021 23:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	02.10.2021 23:33	
4-Bromofluorobenzene	460-00-4	101	%	70-130	02.10.2021 23:33	



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C9-B** Matrix: Soil Date Received: 02.10.2021 11:45
 Lab Sample Id: 687926-006 Date Collected: 02.08.2021 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE
 Analyst: CHE Date Prep: 02.12.2021 09:30 % Moisture:
 Seq Number: 3151009 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	69.8	5.00	mg/kg	02.12.2021 18:58		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 02.10.2021 12:00 % Moisture:
 Seq Number: 3150869 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.10.2021 17:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.10.2021 17:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.10.2021 17:21	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.10.2021 17:21	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	92	%	70-130	02.10.2021 17:21		
o-Terphenyl	84-15-1	106	%	70-130	02.10.2021 17:21		



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C9-B**
Lab Sample Id: 687926-006

Matrix: Soil
Date Collected: 02.08.2021 00:00

Date Received: 02.10.2021 11:45
Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 02.10.2021 16:30

% Moisture:
Basis: Wet Weight

Seq Number: 3150699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.10.2021 23:54	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.10.2021 23:54	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.10.2021 23:54	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.10.2021 23:54	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.10.2021 23:54	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.10.2021 23:54	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.10.2021 23:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	111	%	70-130	02.10.2021 23:54		
1,4-Difluorobenzene	540-36-3	97	%	70-130	02.10.2021 23:54		



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C10-B** Matrix: Soil Date Received: 02.10.2021 11:45
 Lab Sample Id: 687926-007 Date Collected: 02.08.2021 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE
 Analyst: CHE Date Prep: 02.12.2021 09:30 % Moisture:
 Seq Number: 3151009 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	57.6	5.00	mg/kg	02.12.2021 19:03		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 02.10.2021 12:00 % Moisture:
 Seq Number: 3150869 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.10.2021 17:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.10.2021 17:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.10.2021 17:43	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.10.2021 17:43	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	87	%	70-130	02.10.2021 17:43		
o-Terphenyl	84-15-1	88	%	70-130	02.10.2021 17:43		



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C10-B**
Lab Sample Id: 687926-007

Matrix: Soil
Date Collected: 02.08.2021 00:00

Date Received: 02.10.2021 11:45
Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 02.10.2021 16:30

% Moisture:
Basis: Wet Weight

Seq Number: 3150699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.11.2021 00:14	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.11.2021 00:14	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.11.2021 00:14	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.11.2021 00:14	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	02.11.2021 00:14	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	02.11.2021 00:14	U	1
Total BTEX		<0.00201	0.00201	mg/kg	02.11.2021 00:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	113	%	70-130	02.11.2021 00:14		
1,4-Difluorobenzene	540-36-3	96	%	70-130	02.11.2021 00:14		



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Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C11-B** Matrix: Soil Date Received: 02.10.2021 11:45
 Lab Sample Id: 687926-008 Date Collected: 02.08.2021 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE
 Analyst: CHE Date Prep: 02.12.2021 15:45 % Moisture:
 Seq Number: 3151008 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	53.1	5.02	mg/kg	02.12.2021 21:27		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 02.10.2021 12:00 % Moisture:
 Seq Number: 3150869 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.10.2021 18:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.10.2021 18:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.10.2021 18:05	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.10.2021 18:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	02.10.2021 18:05	
o-Terphenyl	84-15-1	121	%	70-130	02.10.2021 18:05	



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Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C11-B**
Lab Sample Id: 687926-008

Matrix: Soil
Date Collected: 02.08.2021 00:00

Date Received: 02.10.2021 11:45
Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 02.10.2021 16:30

% Moisture:
Basis: Wet Weight

Seq Number: 3150699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.11.2021 00:35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.11.2021 00:35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.11.2021 00:35	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.11.2021 00:35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.11.2021 00:35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.11.2021 00:35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.11.2021 00:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	02.11.2021 00:35	
1,4-Difluorobenzene	540-36-3	97	%	70-130	02.11.2021 00:35	



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C12-B** Matrix: Soil Date Received: 02.10.2021 11:45
 Lab Sample Id: 687926-009 Date Collected: 02.08.2021 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE
 Analyst: CHE Date Prep: 02.12.2021 15:45 % Moisture:
 Seq Number: 3151008 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	60.9	4.99	mg/kg	02.12.2021 21:32		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 02.10.2021 12:00 % Moisture:
 Seq Number: 3150869 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.10.2021 18:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.10.2021 18:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.10.2021 18:26	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.10.2021 18:26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	93	%	70-130	02.10.2021 18:26		
o-Terphenyl	84-15-1	102	%	70-130	02.10.2021 18:26		



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C12-B**
Lab Sample Id: 687926-009

Matrix: Soil
Date Collected: 02.08.2021 00:00

Date Received: 02.10.2021 11:45
Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 02.10.2021 16:30

% Moisture:
Basis: Wet Weight

Seq Number: 3150699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.11.2021 00:55	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.11.2021 00:55	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.11.2021 00:55	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	02.11.2021 00:55	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.11.2021 00:55	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.11.2021 00:55	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.11.2021 00:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	02.11.2021 00:55	
4-Bromofluorobenzene	460-00-4	106	%	70-130	02.11.2021 00:55	



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C13-B** Matrix: Soil Date Received: 02.10.2021 11:45
 Lab Sample Id: 687926-010 Date Collected: 02.08.2021 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE
 Analyst: CHE Date Prep: 02.12.2021 15:45 % Moisture:
 Seq Number: 3151008 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	61.3	5.05	mg/kg	02.12.2021 21:38		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 02.10.2021 12:00 % Moisture:
 Seq Number: 3150869 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.10.2021 18:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.10.2021 18:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.10.2021 18:48	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.10.2021 18:48	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	101	%	70-130	02.10.2021 18:48		
o-Terphenyl	84-15-1	117	%	70-130	02.10.2021 18:48		



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C13-B**
Lab Sample Id: 687926-010

Matrix: Soil
Date Collected: 02.08.2021 00:00

Date Received: 02.10.2021 11:45
Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 02.10.2021 16:30

% Moisture:
Basis: Wet Weight

Seq Number: 3150699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.11.2021 01:16	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.11.2021 01:16	U	1
Ethylbenzene	100-41-4	0.00208	0.00202	mg/kg	02.11.2021 01:16		1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	02.11.2021 01:16	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.11.2021 01:16	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.11.2021 01:16	U	1
Total BTEX		0.00208	0.00202	mg/kg	02.11.2021 01:16		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	02.11.2021 01:16		
4-Bromofluorobenzene	460-00-4	103	%	70-130	02.11.2021 01:16		



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C14-B** Matrix: Soil Date Received: 02.10.2021 11:45
 Lab Sample Id: 687926-011 Date Collected: 02.08.2021 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE
 Analyst: CHE Date Prep: 02.12.2021 15:45 % Moisture:
 Seq Number: 3151008 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	58.0	5.05	mg/kg	02.12.2021 21:43		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 02.10.2021 12:00 % Moisture:
 Seq Number: 3150869 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.10.2021 19:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.10.2021 19:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.10.2021 19:31	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.10.2021 19:31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	93	%	70-130	02.10.2021 19:31		
o-Terphenyl	84-15-1	104	%	70-130	02.10.2021 19:31		



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C14-B**
Lab Sample Id: 687926-011

Matrix: Soil
Date Collected: 02.08.2021 00:00

Date Received: 02.10.2021 11:45
Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 02.10.2021 16:30

% Moisture:
Basis: Wet Weight

Seq Number: 3150699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.11.2021 02:38	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.11.2021 02:38	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.11.2021 02:38	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	02.11.2021 02:38	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.11.2021 02:38	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.11.2021 02:38	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.11.2021 02:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	02.11.2021 02:38	
1,4-Difluorobenzene	540-36-3	96	%	70-130	02.11.2021 02:38	



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C15-B** Matrix: Soil Date Received: 02.10.2021 11:45
 Lab Sample Id: 687926-012 Date Collected: 02.08.2021 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE
 Analyst: SPC Date Prep: 02.12.2021 17:00 % Moisture:
 Seq Number: 3151010 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	47.1	5.02	mg/kg	02.12.2021 22:31	X	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 02.10.2021 12:00 % Moisture:
 Seq Number: 3150869 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.10.2021 19:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.10.2021 19:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.10.2021 19:53	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.10.2021 19:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-130	02.10.2021 19:53	
o-Terphenyl	84-15-1	122	%	70-130	02.10.2021 19:53	



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C15-B**
Lab Sample Id: 687926-012

Matrix: Soil
Date Collected: 02.08.2021 00:00

Date Received: 02.10.2021 11:45
Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 02.10.2021 16:30

% Moisture:
Basis: Wet Weight

Seq Number: 3150699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.11.2021 02:59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.11.2021 02:59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.11.2021 02:59	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	02.11.2021 02:59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.11.2021 02:59	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.11.2021 02:59	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.11.2021 02:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	02.11.2021 02:59	
1,4-Difluorobenzene	540-36-3	94	%	70-130	02.11.2021 02:59	



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C16-B** Matrix: Soil Date Received: 02.10.2021 11:45
 Lab Sample Id: 687926-013 Date Collected: 02.08.2021 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE
 Analyst: SPC Date Prep: 02.12.2021 17:00 % Moisture:
 Seq Number: 3151010 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	49.4	4.96	mg/kg	02.12.2021 22:47		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 02.10.2021 12:00 % Moisture:
 Seq Number: 3150869 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.10.2021 20:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.10.2021 20:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.10.2021 20:15	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.10.2021 20:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	02.10.2021 20:15	
o-Terphenyl	84-15-1	109	%	70-130	02.10.2021 20:15	



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C16-B**
Lab Sample Id: 687926-013

Matrix: Soil
Date Collected: 02.08.2021 00:00

Date Received: 02.10.2021 11:45
Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 02.10.2021 16:30

% Moisture:
Basis: Wet Weight

Seq Number: 3150699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.11.2021 03:19	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.11.2021 03:19	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.11.2021 03:19	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.11.2021 03:19	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	02.11.2021 03:19	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	02.11.2021 03:19	U	1
Total BTEX		<0.00201	0.00201	mg/kg	02.11.2021 03:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	70-130	02.11.2021 03:19	
1,4-Difluorobenzene	540-36-3	96	%	70-130	02.11.2021 03:19	



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C17-B** Matrix: Soil Date Received: 02.10.2021 11:45
 Lab Sample Id: 687926-014 Date Collected: 02.08.2021 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE
 Analyst: SPC Date Prep: 02.12.2021 17:00 % Moisture:
 Seq Number: 3151010 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	58.7	5.00	mg/kg	02.12.2021 22:52		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 02.10.2021 12:00 % Moisture:
 Seq Number: 3150869 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.10.2021 20:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	02.10.2021 20:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.10.2021 20:36	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	02.10.2021 20:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	02.10.2021 20:36	
o-Terphenyl	84-15-1	107	%	70-130	02.10.2021 20:36	



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C17-B**
Lab Sample Id: 687926-014

Matrix: Soil
Date Collected: 02.08.2021 00:00

Date Received: 02.10.2021 11:45
Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 02.10.2021 16:30

% Moisture:
Basis: Wet Weight

Seq Number: 3150699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.11.2021 03:39	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.11.2021 03:39	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.11.2021 03:39	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.11.2021 03:39	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	02.11.2021 03:39	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	02.11.2021 03:39	U	1
Total BTEX		<0.00201	0.00201	mg/kg	02.11.2021 03:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	02.11.2021 03:39	
1,4-Difluorobenzene	540-36-3	96	%	70-130	02.11.2021 03:39	



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C18-B** Matrix: Soil Date Received: 02.10.2021 11:45
 Lab Sample Id: 687926-015 Date Collected: 02.08.2021 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE
 Analyst: SPC Date Prep: 02.12.2021 17:00 % Moisture:
 Seq Number: 3151010 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	59.2	5.03	mg/kg	02.12.2021 22:57		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 02.10.2021 12:00 % Moisture:
 Seq Number: 3150869 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.10.2021 20:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.10.2021 20:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.10.2021 20:58	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.10.2021 20:58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	95	%	70-130	02.10.2021 20:58		
o-Terphenyl	84-15-1	111	%	70-130	02.10.2021 20:58		



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C18-B**
Lab Sample Id: 687926-015

Matrix: Soil
Date Collected: 02.08.2021 00:00

Date Received: 02.10.2021 11:45
Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 02.10.2021 16:30

% Moisture:
Basis: Wet Weight

Seq Number: 3150699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.11.2021 04:00	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.11.2021 04:00	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.11.2021 04:00	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.11.2021 04:00	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	02.11.2021 04:00	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	02.11.2021 04:00	U	1
Total BTEX		<0.00201	0.00201	mg/kg	02.11.2021 04:00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	02.11.2021 04:00		
1,4-Difluorobenzene	540-36-3	96	%	70-130	02.11.2021 04:00		



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Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C19-B** Matrix: Soil Date Received: 02.10.2021 11:45
 Lab Sample Id: 687926-016 Date Collected: 02.08.2021 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE
 Analyst: SPC Date Prep: 02.12.2021 17:00 % Moisture:
 Seq Number: 3151010 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	43.5	4.99	mg/kg	02.12.2021 23:03		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 02.10.2021 12:00 % Moisture:
 Seq Number: 3150869 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.10.2021 21:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.10.2021 21:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.10.2021 21:20	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.10.2021 21:20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	93	%	70-130	02.10.2021 21:20		
o-Terphenyl	84-15-1	113	%	70-130	02.10.2021 21:20		



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C19-B**
Lab Sample Id: 687926-016

Matrix: Soil
Date Collected: 02.08.2021 00:00

Date Received: 02.10.2021 11:45
Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 02.10.2021 16:30

% Moisture:
Basis: Wet Weight

Seq Number: 3150699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.11.2021 04:20	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.11.2021 04:20	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.11.2021 04:20	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.11.2021 04:20	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.11.2021 04:20	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.11.2021 04:20	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.11.2021 04:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	02.11.2021 04:20	
1,4-Difluorobenzene	540-36-3	96	%	70-130	02.11.2021 04:20	



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C20-B** Matrix: Soil Date Received: 02.10.2021 11:45
 Lab Sample Id: 687926-017 Date Collected: 02.08.2021 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE
 Analyst: SPC Date Prep: 02.12.2021 17:00 % Moisture:
 Seq Number: 3151010 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	53.0	4.97	mg/kg	02.12.2021 23:19		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 02.10.2021 12:00 % Moisture:
 Seq Number: 3150869 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.10.2021 21:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	02.10.2021 21:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.10.2021 21:41	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	02.10.2021 21:41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	94	%	70-130	02.10.2021 21:41		
o-Terphenyl	84-15-1	110	%	70-130	02.10.2021 21:41		



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C20-B**
Lab Sample Id: 687926-017

Matrix: Soil
Date Collected: 02.08.2021 00:00

Date Received: 02.10.2021 11:45
Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 02.10.2021 16:30

% Moisture:
Basis: Wet Weight

Seq Number: 3150699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.11.2021 04:41	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.11.2021 04:41	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.11.2021 04:41	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	02.11.2021 04:41	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.11.2021 04:41	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.11.2021 04:41	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.11.2021 04:41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	96	%	70-130	02.11.2021 04:41		
4-Bromofluorobenzene	460-00-4	101	%	70-130	02.11.2021 04:41		



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Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C21-B** Matrix: Soil Date Received: 02.10.2021 11:45
 Lab Sample Id: 687926-018 Date Collected: 02.08.2021 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE
 Analyst: SPC Date Prep: 02.12.2021 17:00 % Moisture:
 Seq Number: 3151010 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	83.1	4.97	mg/kg	02.12.2021 23:24		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 02.10.2021 12:00 % Moisture:
 Seq Number: 3150869 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.10.2021 22:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.10.2021 22:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.10.2021 22:03	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.10.2021 22:03	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	93	%	70-130	02.10.2021 22:03		
o-Terphenyl	84-15-1	101	%	70-130	02.10.2021 22:03		



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C21-B**
Lab Sample Id: 687926-018

Matrix: Soil
Date Collected: 02.08.2021 00:00

Date Received: 02.10.2021 11:45
Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 02.10.2021 16:30

% Moisture:
Basis: Wet Weight

Seq Number: 3150699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.11.2021 05:01	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.11.2021 05:01	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.11.2021 05:01	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.11.2021 05:01	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.11.2021 05:01	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.11.2021 05:01	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.11.2021 05:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	02.11.2021 05:01	
1,4-Difluorobenzene	540-36-3	97	%	70-130	02.11.2021 05:01	



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C22-B** Matrix: Soil Date Received: 02.10.2021 11:45
 Lab Sample Id: 687926-019 Date Collected: 02.08.2021 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE
 Analyst: SPC Date Prep: 02.12.2021 17:00 % Moisture:
 Seq Number: 3151010 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	78.7	4.99	mg/kg	02.12.2021 23:29		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 02.10.2021 12:00 % Moisture:
 Seq Number: 3150869 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.10.2021 22:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.10.2021 22:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.10.2021 22:25	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.10.2021 22:25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	92	%	70-130	02.10.2021 22:25		
o-Terphenyl	84-15-1	109	%	70-130	02.10.2021 22:25		



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C22-B**
Lab Sample Id: 687926-019

Matrix: Soil
Date Collected: 02.08.2021 00:00

Date Received: 02.10.2021 11:45
Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 02.10.2021 16:30

% Moisture:
Basis: Wet Weight

Seq Number: 3150699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.11.2021 05:22	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.11.2021 05:22	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.11.2021 05:22	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.11.2021 05:22	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.11.2021 05:22	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.11.2021 05:22	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.11.2021 05:22	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	102	%	70-130	02.11.2021 05:22		
1,4-Difluorobenzene	540-36-3	96	%	70-130	02.11.2021 05:22		



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C23-B** Matrix: Soil Date Received: 02.10.2021 11:45
 Lab Sample Id: 687926-020 Date Collected: 02.08.2021 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE
 Analyst: SPC Date Prep: 02.12.2021 17:00 % Moisture:
 Seq Number: 3151010 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	47.4	4.98	mg/kg	02.12.2021 23:35		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 02.10.2021 12:00 % Moisture:
 Seq Number: 3150869 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.10.2021 22:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.10.2021 22:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.10.2021 22:47	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.10.2021 22:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-130	02.10.2021 22:47	
o-Terphenyl	84-15-1	126	%	70-130	02.10.2021 22:47	



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C23-B**
Lab Sample Id: 687926-020

Matrix: Soil
Date Collected: 02.08.2021 00:00

Date Received: 02.10.2021 11:45
Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 02.10.2021 16:30

% Moisture:
Basis: Wet Weight

Seq Number: 3150699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.11.2021 05:42	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.11.2021 05:42	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.11.2021 05:42	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.11.2021 05:42	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.11.2021 05:42	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.11.2021 05:42	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.11.2021 05:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	02.11.2021 05:42	
1,4-Difluorobenzene	540-36-3	96	%	70-130	02.11.2021 05:42	



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C24-B** Matrix: Soil Date Received: 02.10.2021 11:45
 Lab Sample Id: 687926-021 Date Collected: 02.08.2021 00:00 Sample Depth: 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE
 Analyst: SPC Date Prep: 02.12.2021 17:00 % Moisture:
 Seq Number: 3151010 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	47.2	5.03	mg/kg	02.12.2021 23:40		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM
 Analyst: ARM Date Prep: 02.10.2021 17:00 % Moisture:
 Seq Number: 3150748 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.11.2021 04:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.11.2021 04:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.11.2021 04:09	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.11.2021 04:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	02.11.2021 04:09	
o-Terphenyl	84-15-1	98	%	70-130	02.11.2021 04:09	



Certificate of Analytical Results 687926

Hungry Horse LLC, Hobbs, NM Rancho Verde

Sample Id: **C24-B**
Lab Sample Id: 687926-021

Matrix: Soil
Date Collected: 02.08.2021 00:00

Date Received: 02.10.2021 11:45
Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 02.10.2021 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3150884

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.11.2021 09:05	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.11.2021 09:05	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.11.2021 09:05	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	02.11.2021 09:05	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.11.2021 09:05	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.11.2021 09:05	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.11.2021 09:05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	97	%	70-130	02.11.2021 09:05		
1,4-Difluorobenzene	540-36-3	92	%	70-130	02.11.2021 09:05		



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



Hungry Horse LLC

Rancho Verde

Analytical Method: Chloride by EPA 300

Seq Number: 3151009

MB Sample Id: 7721395-1-BLK

Matrix: Solid

LCS Sample Id: 7721395-1-BKS

Prep Method: E300P

Date Prep: 02.12.2021

LCSD Sample Id: 7721395-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	266	106	256	102	90-110	4	20	mg/kg	02.12.2021 16:28	

Analytical Method: Chloride by EPA 300

Seq Number: 3151008

MB Sample Id: 7721416-1-BLK

Matrix: Solid

LCS Sample Id: 7721416-1-BKS

Prep Method: E300P

Date Prep: 02.12.2021

LCSD Sample Id: 7721416-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	252	101	251	100	90-110	0	20	mg/kg	02.12.2021 19:24	

Analytical Method: Chloride by EPA 300

Seq Number: 3151010

MB Sample Id: 7721417-1-BLK

Matrix: Solid

LCS Sample Id: 7721417-1-BKS

Prep Method: E300P

Date Prep: 02.12.2021

LCSD Sample Id: 7721417-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	254	102	252	101	90-110	1	20	mg/kg	02.12.2021 22:20	

Analytical Method: Chloride by EPA 300

Seq Number: 3151009

Parent Sample Id: 687862-004

Matrix: Soil

MS Sample Id: 687862-004 S

Prep Method: E300P

Date Prep: 02.12.2021

MSD Sample Id: 687862-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	422	250	660	95	707	114	90-110	7	20	mg/kg	02.12.2021 17:59	X

Analytical Method: Chloride by EPA 300

Seq Number: 3151009

Parent Sample Id: 687930-010

Matrix: Soil

MS Sample Id: 687930-010 S

Prep Method: E300P

Date Prep: 02.12.2021

MSD Sample Id: 687930-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1540	1250	2820	102	2830	103	90-110	0	20	mg/kg	02.12.2021 16:44	

Analytical Method: Chloride by EPA 300

Seq Number: 3151008

Parent Sample Id: 688219-001

Matrix: Soil

MS Sample Id: 688219-001 S

Prep Method: E300P

Date Prep: 02.12.2021

MSD Sample Id: 688219-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	624	1250	2070	116	1860	99	90-110	11	20	mg/kg	02.12.2021 19:40	X

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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



Hungry Horse LLC

Rancho Verde

Analytical Method: Chloride by EPA 300

Seq Number: 3151008

Parent Sample Id: 688219-011

Matrix: Soil

MS Sample Id: 688219-011 S

Prep Method: E300P

Date Prep: 02.12.2021

MSD Sample Id: 688219-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	545	2500	3120	103	3040	100	90-110	3	20	mg/kg	02.12.2021 20:55	

Analytical Method: Chloride by EPA 300

Seq Number: 3151010

Parent Sample Id: 687926-012

Matrix: Soil

MS Sample Id: 687926-012 S

Prep Method: E300P

Date Prep: 02.12.2021

MSD Sample Id: 687926-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	47.1	251	338	116	342	117	90-110	1	20	mg/kg	02.12.2021 22:36	X

Analytical Method: Chloride by EPA 300

Seq Number: 3151010

Parent Sample Id: 688063-001

Matrix: Soil

MS Sample Id: 688063-001 S

Prep Method: E300P

Date Prep: 02.12.2021

MSD Sample Id: 688063-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5120	1260	7430	183	7360	178	90-110	1	20	mg/kg	02.12.2021 23:50	X

Analytical Method: TPH By SW8015 Mod

Seq Number: 3150869

MB Sample Id: 7721301-1-BLK

Matrix: Solid

LCS Sample Id: 7721301-1-BKS

Prep Method: SW8015P

Date Prep: 02.10.2021

LCSD Sample Id: 7721301-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	984	98	941	94	70-130	4	20	mg/kg	02.10.2021 12:34	
Diesel Range Organics (DRO)	<50.0	1000	929	93	887	89	70-130	5	20	mg/kg	02.10.2021 12:34	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	77		92		89		70-130	%	02.10.2021 12:34
o-Terphenyl	97		95		95		70-130	%	02.10.2021 12:34

Analytical Method: TPH By SW8015 Mod

Seq Number: 3150748

MB Sample Id: 7721298-1-BLK

Matrix: Solid

LCS Sample Id: 7721298-1-BKS

Prep Method: SW8015P

Date Prep: 02.10.2021

LCSD Sample Id: 7721298-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	945	95	932	93	70-130	1	20	mg/kg	02.10.2021 22:32	
Diesel Range Organics (DRO)	<50.0	1000	953	95	975	98	70-130	2	20	mg/kg	02.10.2021 22:32	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	100		113		114		70-130	%	02.10.2021 22:32
o-Terphenyl	118		121		127		70-130	%	02.10.2021 22:32

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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



Hungry Horse LLC

Rancho Verde

Analytical Method: TPH By SW8015 Mod

Seq Number: 3150869

Matrix: Solid

Prep Method: SW8015P

Date Prep: 02.10.2021

MB Sample Id: 7721301-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.10.2021 12:13	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3150748

Matrix: Solid

Prep Method: SW8015P

Date Prep: 02.10.2021

MB Sample Id: 7721298-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.10.2021 22:10	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3150869

Matrix: Soil

Prep Method: SW8015P

Date Prep: 02.10.2021

Parent Sample Id: 687926-001

MS Sample Id: 687926-001 S

MSD Sample Id: 687926-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	961	96	879	88	70-130	9	20	mg/kg	02.10.2021 15:14	
Diesel Range Organics (DRO)	<49.9	998	841	84	811	81	70-130	4	20	mg/kg	02.10.2021 15:14	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	89		75		70-130	%	02.10.2021 15:14
o-Terphenyl	83		72		70-130	%	02.10.2021 15:14

Analytical Method: TPH By SW8015 Mod

Seq Number: 3150748

Matrix: Solid

Prep Method: SW8015P

Date Prep: 02.10.2021

Parent Sample Id: 687934-001

MS Sample Id: 687934-001 S

MSD Sample Id: 687934-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	1050	105	1050	105	70-130	0	20	mg/kg	02.10.2021 23:36	
Diesel Range Organics (DRO)	<49.9	998	1000	100	1020	102	70-130	2	20	mg/kg	02.10.2021 23:36	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	107		109		70-130	%	02.10.2021 23:36
o-Terphenyl	118		125		70-130	%	02.10.2021 23:36

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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



Hungry Horse LLC

Rancho Verde

Analytical Method: BTEX by EPA 8021B

Seq Number: 3150699

Matrix: Solid

Prep Method: SW5035A

Date Prep: 02.10.2021

MB Sample Id: 7721272-1-BLK

LCS Sample Id: 7721272-1-BKS

LCSD Sample Id: 7721272-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0887	89	0.0948	95	70-130	7	35	mg/kg	02.10.2021 19:50	
Toluene	<0.00200	0.100	0.0854	85	0.0905	91	70-130	6	35	mg/kg	02.10.2021 19:50	
Ethylbenzene	<0.00200	0.100	0.0891	89	0.0951	95	70-130	7	35	mg/kg	02.10.2021 19:50	
m,p-Xylenes	<0.00400	0.200	0.174	87	0.186	93	70-130	7	35	mg/kg	02.10.2021 19:50	
o-Xylene	<0.00200	0.100	0.0891	89	0.0935	94	70-130	5	35	mg/kg	02.10.2021 19:50	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	92		100		100		70-130	%	02.10.2021 19:50
4-Bromofluorobenzene	103		92		92		70-130	%	02.10.2021 19:50

Analytical Method: BTEX by EPA 8021B

Seq Number: 3150884

Matrix: Solid

Prep Method: SW5035A

Date Prep: 02.10.2021

MB Sample Id: 7721273-1-BLK

LCS Sample Id: 7721273-1-BKS

LCSD Sample Id: 7721273-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0949	95	0.0964	96	70-130	2	35	mg/kg	02.11.2021 06:43	
Toluene	<0.00200	0.100	0.0900	90	0.0925	93	70-130	3	35	mg/kg	02.11.2021 06:43	
Ethylbenzene	<0.00200	0.100	0.0958	96	0.0981	98	70-130	2	35	mg/kg	02.11.2021 06:43	
m,p-Xylenes	<0.00400	0.200	0.189	95	0.194	97	70-130	3	35	mg/kg	02.11.2021 06:43	
o-Xylene	<0.00200	0.100	0.0958	96	0.0980	98	70-130	2	35	mg/kg	02.11.2021 06:43	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	90		102		102		70-130	%	02.11.2021 06:43
4-Bromofluorobenzene	99		98		98		70-130	%	02.11.2021 06:43

Analytical Method: BTEX by EPA 8021B

Seq Number: 3150699

Matrix: Soil

Prep Method: SW5035A

Date Prep: 02.10.2021

Parent Sample Id: 687926-001

MS Sample Id: 687926-001 S

MSD Sample Id: 687926-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0990	0.0807	82	0.0730	73	70-130	10	35	mg/kg	02.10.2021 20:31	
Toluene	<0.00198	0.0990	0.0775	78	0.0699	70	70-130	10	35	mg/kg	02.10.2021 20:31	
Ethylbenzene	<0.00198	0.0990	0.0816	82	0.0740	74	70-130	10	35	mg/kg	02.10.2021 20:31	
m,p-Xylenes	<0.00396	0.198	0.162	82	0.147	74	70-130	10	35	mg/kg	02.10.2021 20:31	
o-Xylene	<0.00198	0.0990	0.0811	82	0.0735	74	70-130	10	35	mg/kg	02.10.2021 20:31	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		100		70-130	%	02.10.2021 20:31
4-Bromofluorobenzene	98		96		70-130	%	02.10.2021 20:31

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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



Hungry Horse LLC

Rancho Verde

Analytical Method: BTEX by EPA 8021B

Seq Number: 3150884

Parent Sample Id: 687926-021

Matrix: Soil

MS Sample Id: 687926-021 S

Prep Method: SW5035A

Date Prep: 02.10.2021

MSD Sample Id: 687926-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0726	73	0.0743	74	70-130	2	35	mg/kg	02.11.2021 07:24	
Toluene	<0.00200	0.100	0.0695	70	0.0710	70	70-130	2	35	mg/kg	02.11.2021 07:24	
Ethylbenzene	<0.00200	0.100	0.0741	74	0.0763	76	70-130	3	35	mg/kg	02.11.2021 07:24	
m,p-Xylenes	<0.00401	0.200	0.148	74	0.154	77	70-130	4	35	mg/kg	02.11.2021 07:24	
o-Xylene	<0.00200	0.100	0.0745	75	0.0775	77	70-130	4	35	mg/kg	02.11.2021 07:24	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		102		70-130	%	02.11.2021 07:24
4-Bromofluorobenzene	102		104		70-130	%	02.11.2021 07:24

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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



Chain of Custody

Houston, TX (231) 240-4200, Dallas, TX (214) 902-0230, San Antonio, TX (210) 505-3334
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) 449-5800

Work Order No. 1087924

Page _____ of _____
www.xenco.com

Project Manager:		Daniel Dominguez	Bill to: (if different)	Camblrian Management
Company Name:		Hungry Horse	Company Name:	Artickard@camblrianmgmt.com
Address:		PO Box 1058	Address:	PO Box 272
City, State ZIP:		Hobbs, NM 88241	City, State ZIP:	Midland, Tx 79701
Phone:			Email:	pm@hungry-horse.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RCC ☐ Superfund ☐	
State of Project:	
Reporting Level I ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

ANALYSIS REQUEST						PRESERVATIVE CODES															
Project Name:		Rancho Verde		Turn Around																	
Project Number:				☒ Routine ☐ Rush																	
Project Location		Grand Banks		Due Date:																	
Sampler's Name:		Bradley Wells		TAT starts the day received by the lab, if received by 4:30pm																	
PO #:																					
SAMPLE RECEIPT																					
Received Intact:		Temp Blank:	Yes No	Yes No	Wet Ice:	Yes No															
Cooler Custody Seals:		Yes No	N/A	Thermometer ID:																	
Sample Custody Seals:		Yes No	N/A	Correction Factor:																	
Total Containers:				Temperature Reading:	1.13																
				Corrected Temperature:	1.13																
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters													
C4-B			2/8/2021		6'11"			CHLORIDE													
C5-B			2/8/2021		6'11"			BTX													
C6-B			2/8/2021		6'11"			TPH													
C7-B			2/8/2021		6'11"			X	X	X											
C8-B			2/8/2021		6'11"			X	X	X											
C9-B			2/8/2021		6'11"			X	X	X											
C10-B			2/8/2021		6'11"			X	X	X											
C11-B			2/8/2021		6'11"			X	X	X											
C12-B			2/8/2021		6'11"			X	X	X											
C13-B			2/8/2021		6'11"			X	X	X											
Sample Comments																					

Total 200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	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	Ti	U												
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.																																
Hg: 1631 / 245.1 / 7470 / 7471																																

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Arhan Rish	KD	12/4/2019	KD	[Signature]	11/14/19



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) 889-6701
 Atlanta, GA (770) 449-8800

Work Order No: 1187922

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Project Manager:	Daniel Dominguez	Bill to: (if different)	Cambrion Management
Company Name:	Hungry Horse	Company Name:	Arickard@cambrionmgmt.com
Address:	PO Box 1058	Address:	PO Box 272
City, State ZIP:	Hobbs, NM 88241	City, State ZIP:	Midland, Tx 79701
Phone:		Email:	pm@hungry-horse.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level: ☐ Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	Rancho Verde		Turn Around		Pres. Code	ANALYSIS REQUEST																Preservative Codes			
Project Number:			☒ Routine	☐ Rush																			None: NO DI Water: H ₂ O Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ NaOH: Na H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC		
Project Location:	GrandBanks		Due Date:	TAT starts the day received by the lab, if received by 4:30pm																				Sample Comments	
Sampler's Name:	Bradley Wells																								
PO #:																									
SAMPLE RECEIPT			Temp Blank:	Yes	No	Wet Ice:	Yes	No																	
Received Intact:	Yes	No	Thermometer ID:																						
Cooler Custody Seals:	Yes	No	Correction Factor:																						
Sample Custody Seals:	Yes	No	Temperature Reading:	1.3																					
Total Containers:			Corrected Temperature:	1.3																					
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont																			
C14-B		2/8/2021		6"			X	X	X																
C15-B		2/8/2021		6"			X	X	X																
C16-B		2/8/2021		6"			X	X	X																
C17-B		2/8/2021		6"			X	X	X																
C18-B		2/8/2021		6"			X	X	X																
C19-B		2/8/2021		6"			X	X	X																
C20-B		2/8/2021		6"			X	X	X																
C21-B		2/8/2021		6"			X	X	X																
C22-B		2/8/2021		6"			X	X	X																
C23-B		2/8/2021		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 SiO₂ Na Sr Ti 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 Ti 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
Ashton Rich	ND	12/4/21	ND	ND	12/4/21
3		4			6
5					

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Hungry Horse LLC

Date/ Time Received: 02.10.2021 11.45.00 AM

Work Order #: 687926

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.8
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Brianna Teel

Date: 02.10.2021

Checklist reviewed by:



Holly Taylor

Date: 02.10.2021

Attachment V
NMOCD Email Correspondence

Lindsey Nevels

From: Eads, Cristina, EMNRD <Cristina.Eads@state.nm.us>
Sent: Thursday, January 21, 2021 3:02 PM
To: Lindsey Nevels
Subject: RE: Ranch Verde/Closure

Lindsey,

That is correct, and will also include benzene and BTEX concentrations to be less than 10 mg/kg and 50 mg/kg, respectively. And keep in mind samples C-1b through C-3b met our reclamation requirements.

Please let me know if you have any additional questions.

Cristina Eads • Environmental Specialist - A
Environmental Bureau
EMNRD - Oil Conservation Division
5200 Oakland Ave, Suite100 | Albuquerque, NM 87113
505.670.5601 | Cristina.Eads@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>

From: Lindsey Nevels <lnevels@hungry-horse.com>
Sent: Thursday, January 21, 2021 2:54 PM
To: Eads, Cristina, EMNRD <Cristina.Eads@state.nm.us>
Subject: [EXT] RE: Ranch Verde/Closure

Cristina,

I wanted to get verification on Rancho Verde. As long as we can get sample locations C1-C24 excavated to a depth where the chloride concentrations are less than 600 mg/kg and 100 mg/kg tph, within the top 4' and get the C1-41 signed in appropriate places we should be able to close?

Lindsey Nevels

Project Manager
Hungry Horse LLC
432-241-2480
lnevels@hungry-horse.com

From: Eads, Cristina, EMNRD <Cristina.Eads@state.nm.us>
Sent: Thursday, January 21, 2021 2:17 PM
To: Lindsey Nevels <lnevels@hungry-horse.com>
Subject: RE: Ranch Verde

https://ocdimage.emnrd.state.nm.us/Imaging/FileStore/santafeenvironmental/nf/20210121/nrm2017435952_01_21_2021_08_36_50.pdf

Cristina Eads | 505-670-5601

From: Lindsey Nevels <lnevels@hungry-horse.com>
Sent: Thursday, January 21, 2021 1:55 PM
To: Eads, Cristina, EMNRD <Cristina.Eads@state.nm.us>
Subject: [EXT] Ranch Verde

Ms.Eads,

I am inquiring on the denied closure report for the *Rancho Verde nRM2017435952*. Maybe you can solve my confusion. I am thinking I may be looking over something. You state : **Per [19.15.29.13](#) D.(1) NMAC, "The reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division..."** I am not seeing where any of the analytical lab results are over that criteria. The top 4' is under the 600 mg/kg concentration. If you could help me out with this that is greatly appreciated. Thank You!

Lindsey Nevels

Project Manager

Hungry Horse LLC

432-241-2480

lnevels@hungry-horse.com

Attachment VI
NMOCD Form C-141 Remediation and Closure Pages

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>51'</u> (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	
District RP	
Facility ID	
Application ID	

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

Printed Name: Socorro Hendry Title: Clerk

Signature: *Socorro Hendry* Date: 1-21-21

email: *shendry@cambrinusgent.com* Telephone: 432-620-9181

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Socorro Hendry Title: ClerkSignature: Socorro HendryDate: 1-21-21email: shendry@cambrimgmt.comTelephone: 432-620-9181**OCD Only**

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____

Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate OCD 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: Socorro Hendry Title: Clerk
Signature: Socorro Hendry Date: 1-21-21
email: shendry@cambiumregprod.com Telephone: 432-620-9181

OCD Only

Received by: Chad Hensley Date: 07/27/201

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: Chad Hensley Date: 07/27/201
Printed Name: Chad Hensley Title: Environmental Specialist Advanced

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 23451

CONDITIONS

Operator: GRAND BANKS ENERGY CO 10 Desta Drive Midland, TX 79705	OGRID: 155471
	Action Number: 23451
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	7/27/2021