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## 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**

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Prepared For:

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

Prepared By:

Hungry Horse, LLC  
4024 Plains Hwy  
Lovington, NM 88260

**October 2020**

A handwritten signature in black ink that reads "Lindsey Nevels". The signature is written in a cursive style and is positioned above a horizontal line.

Lindsey Nevels  
Project Manager

A handwritten signature in black ink that reads "Daniel Dominguez". The signature is written in a cursive style and is positioned above a horizontal line.

Daniel Dominguez  
Sr. Project Manager

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## HUNGRY HORSE, LLC

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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 NMOCD 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 NMOCD Form C-141 are available on the NMOCD Imaging System. Remediation Pages of the NMOCD Form C-141 are included as Attachment V.

### **NMOCD Site Classification:**

A search of the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) groundwater databases was completed in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. 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 NMOCD 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.



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 750 cubic yards of impacted soil were hauled to an NMOCD approved disposal facility.

### **Restoration, Reclamation, and Re-Vegetation:**

Based upon laboratory analytical results from confirmation soil samples, the excavated area was backfilled with non-impacted like 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 Site Assessment and Remediation Work Plan 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.



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**Distribution:**

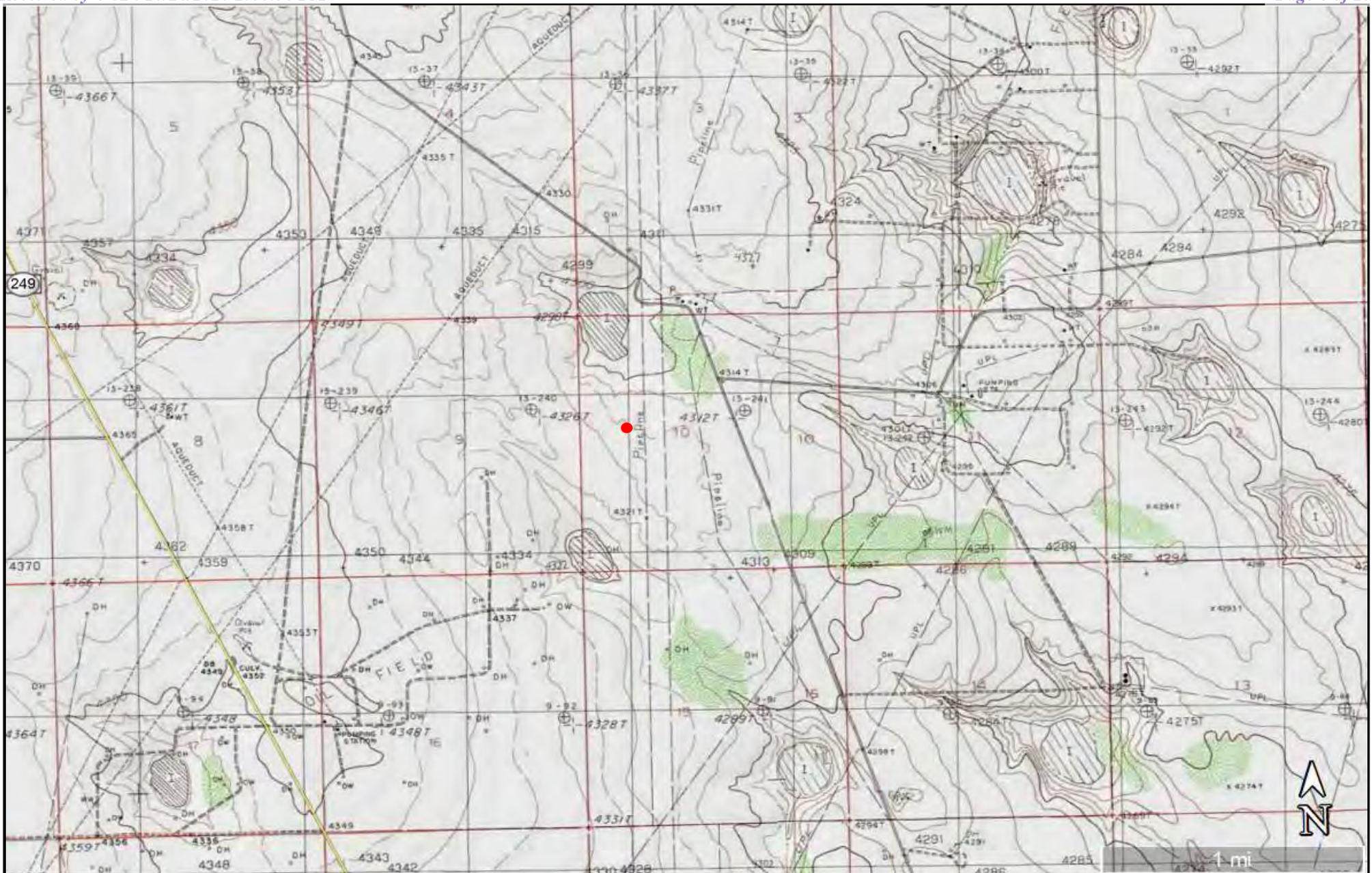
**Grand Banks Energy Co.**

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: lmn  
 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'

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Date: 10/8/20





**Figure 3**

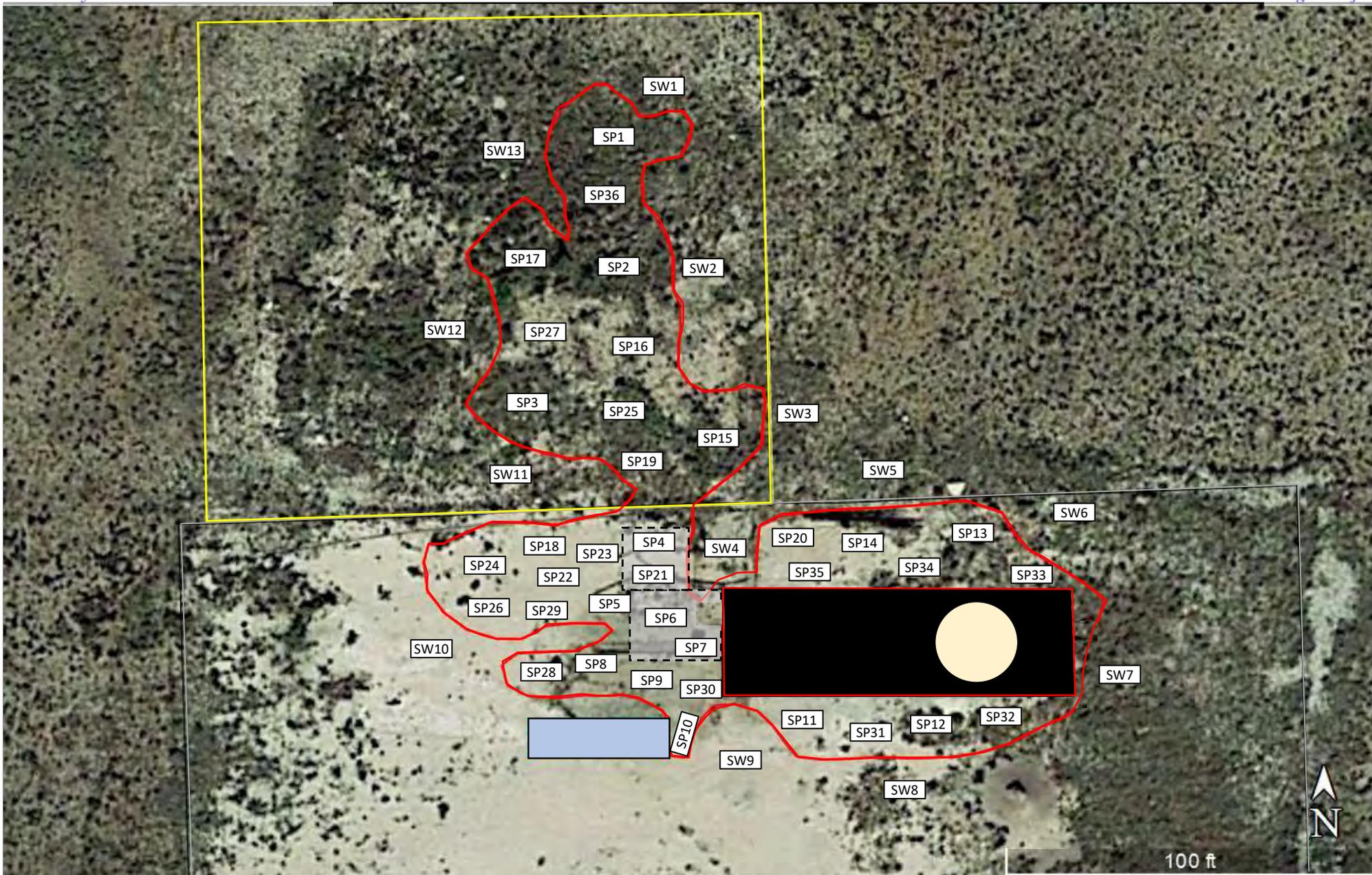
USGS Well Locations Map  
Grand Banks Energy Co  
Rancho Verde 10 State Well #2  
GPS: 32.937154, -103.759919  
Lea County

**Legend:**

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

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





**Figure 4**

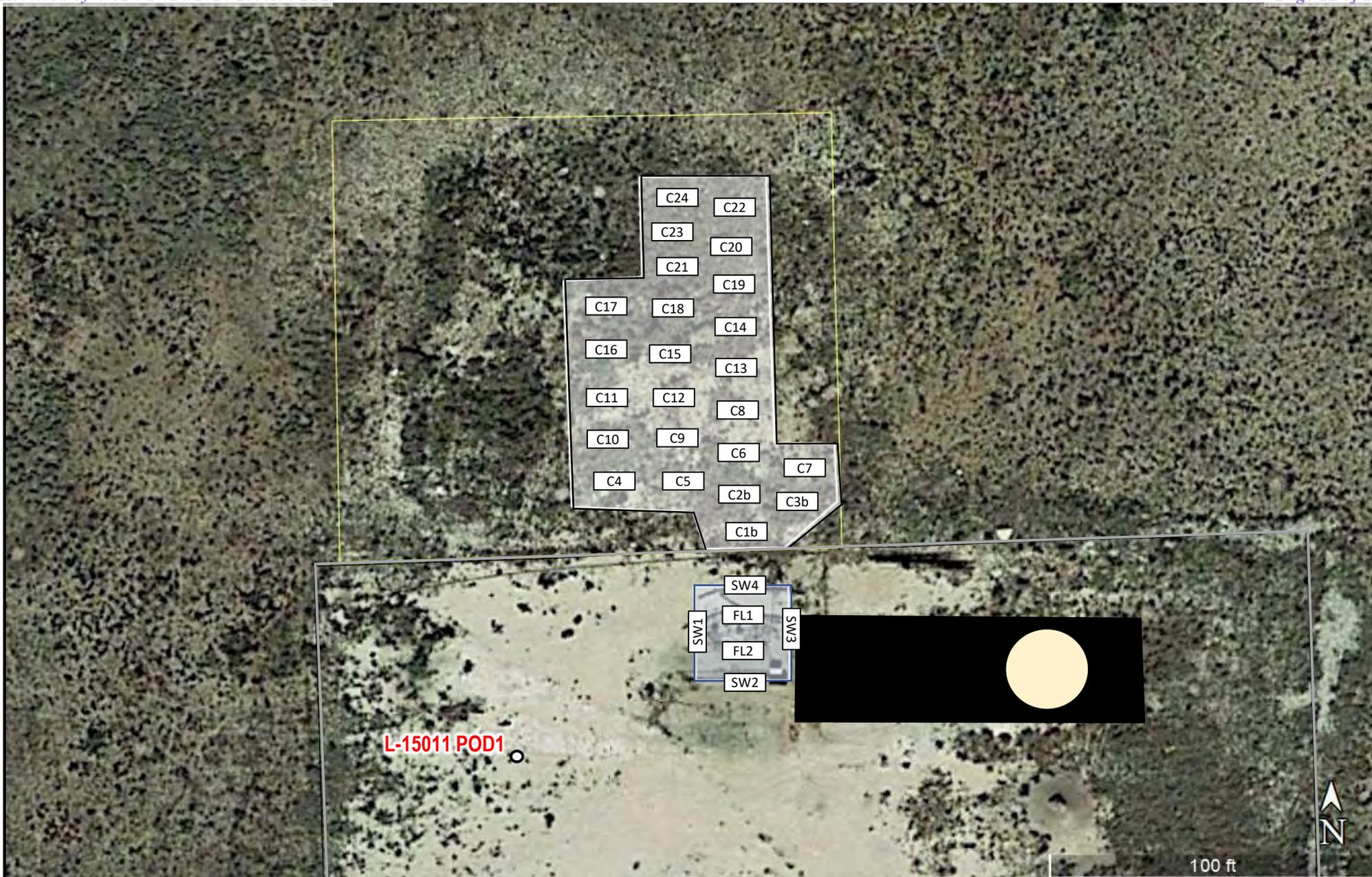
Delineation Sample Location Map  
 Grand Banks Energy Co  
 Rancho Verde 10 State Well #2  
 GPS: 32.937154, -103.759919  
 Lea County

**Legend:**

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

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

Drafted: Imn  
 Checked: dd  
 Date: 8/3/20



## 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 <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (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	<b>118</b>	39.9
SP5-8'	4/2/2020	8'	Excavated	ND	0.194	ND	1,540	<b>1,540</b>	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	<b>12,500</b>	4,430	<b>16,900</b>	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	<b>1,390</b>	1,750	<b>3,140</b>	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
<b>NMOCD Closure Criteria</b>				<b>10</b>	<b>50</b>	-	-	<b>1,000</b>	-	<b>2,500</b>	<b>10,000</b>

**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 <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (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	<b>1,370</b>	546	1,920	30.7
C2	7/21/2020	Surface	Excavated	ND	ND	ND	1,290	<b>1,290</b>	578	1,870	26.0
C3	7/21/2020	Surface	Excavated	ND	ND	ND	1,360	<b>1,360</b>	722	2,080	64.7
C4	7/21/2020	Surface	In-Situ	ND	ND	ND	294	294	225	519	ND
C5	7/21/2020	Surface	In-Situ	ND	ND	ND	270	270	223	493	ND
C6	7/21/2020	Surface	In-Situ	ND	ND	ND	269	269	207	476	ND
C7	7/21/2020	Surface	In-Situ	ND	ND	ND	315	315	246	561	ND
C8	7/21/2020	Surface	In-Situ	ND	ND	ND	276	276	228	504	ND
C9	7/21/2020	Surface	In-Situ	ND	ND	ND	382	382	300	682	ND
C10	7/21/2020	Surface	In-Situ	ND	ND	ND	409	409	335	744	ND
C11	7/21/2020	Surface	In-Situ	ND	ND	ND	164	164	167	331	ND
C12	7/21/2020	Surface	In-Situ	ND	ND	ND	292	292	248	540	ND
C13	7/21/2020	Surface	In-Situ	ND	ND	ND	310	310	269	579	ND
C14	7/21/2020	Surface	In-Situ	ND	ND	ND	394	394	320	714	ND
C15	7/21/2020	Surface	In-Situ	ND	ND	ND	326	326	278	604	ND
C16	7/21/2020	Surface	In-Situ	ND	ND	ND	168	168	166	334	ND
C17	7/21/2020	Surface	In-Situ	ND	ND	ND	282	282	252	534	ND
C18	7/21/2020	Surface	In-Situ	ND	ND	ND	260	260	213	473	ND
C19	7/21/2020	Surface	In-Situ	ND	ND	ND	329	329	278	607	ND
C20	7/21/2020	Surface	In-Situ	ND	ND	ND	218	218	197	415	ND
C21	7/21/2020	Surface	In-Situ	ND	ND	ND	70.2	70.2	62.8	133	ND
C22	7/21/2020	Surface	In-Situ	ND	ND	ND	62.9	62.9	70.7	134	ND
C23	7/21/2020	Surface	In-Situ	ND	ND	ND	61.9	61.9	66.2	128	ND
C24	7/21/2020	Surface	In-Situ	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
<b>NMOCD Closure Criteria</b>				<b>10</b>	<b>50</b>	<b>-</b>	<b>-</b>	<b>1,000</b>	<b>-</b>	<b>2,500</b>	<b>10,000</b>

**NOTES:**

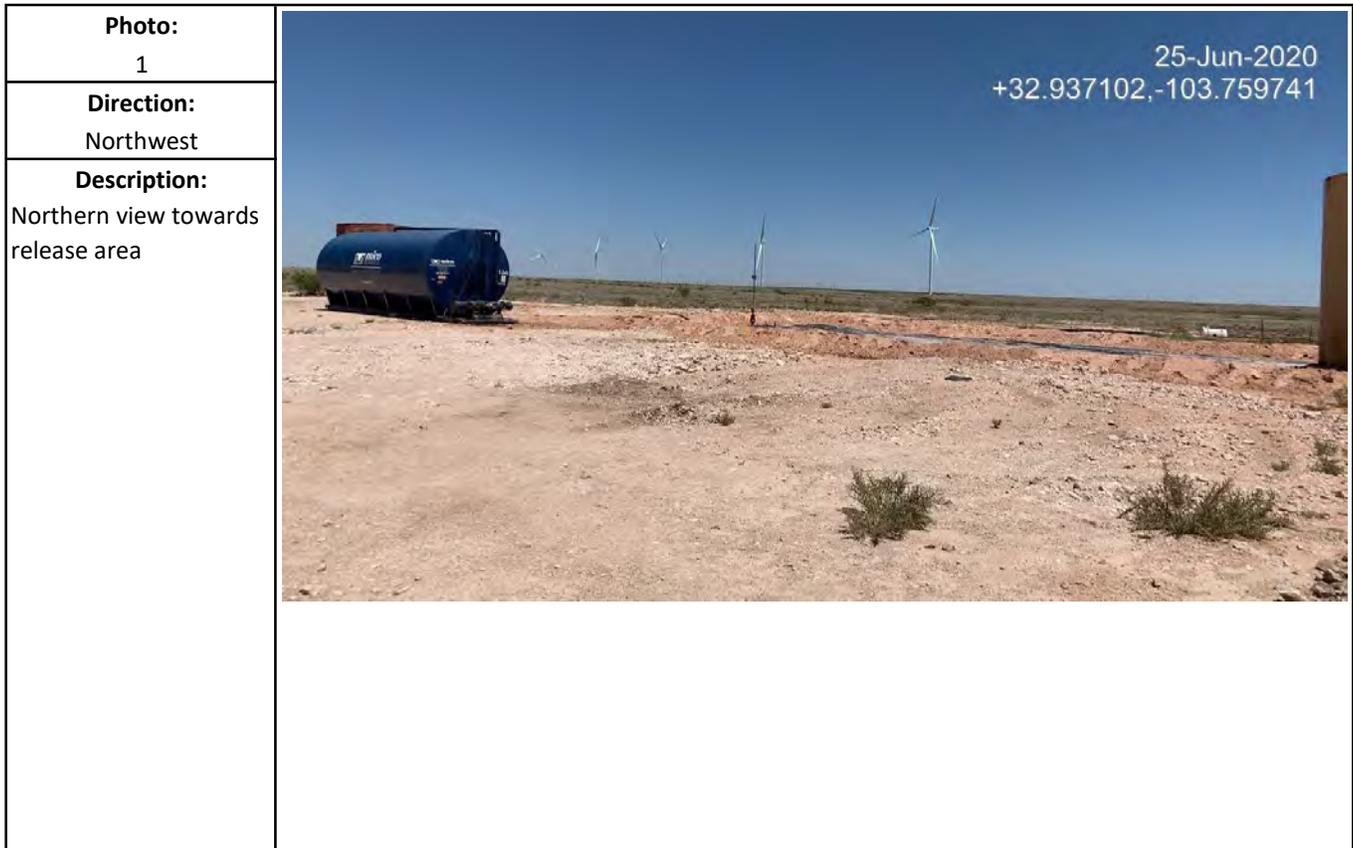
- = Sample not analyzed for that constituent.

**Bold text denotes a concentration that exceeds the NMOCD Closure Criteria**

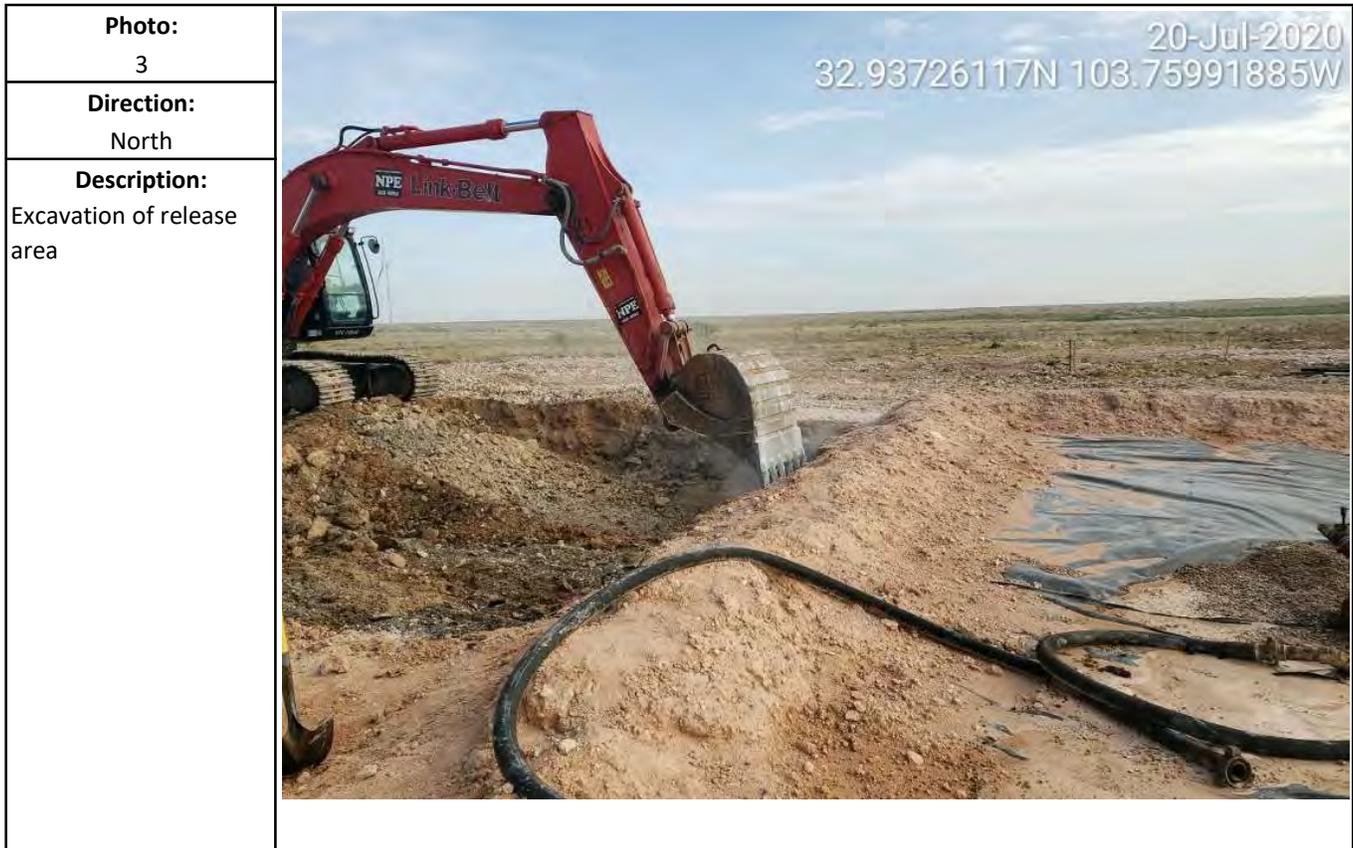
# **Attachment I**

## **Site Photographs**

### Photographs



### Photographs

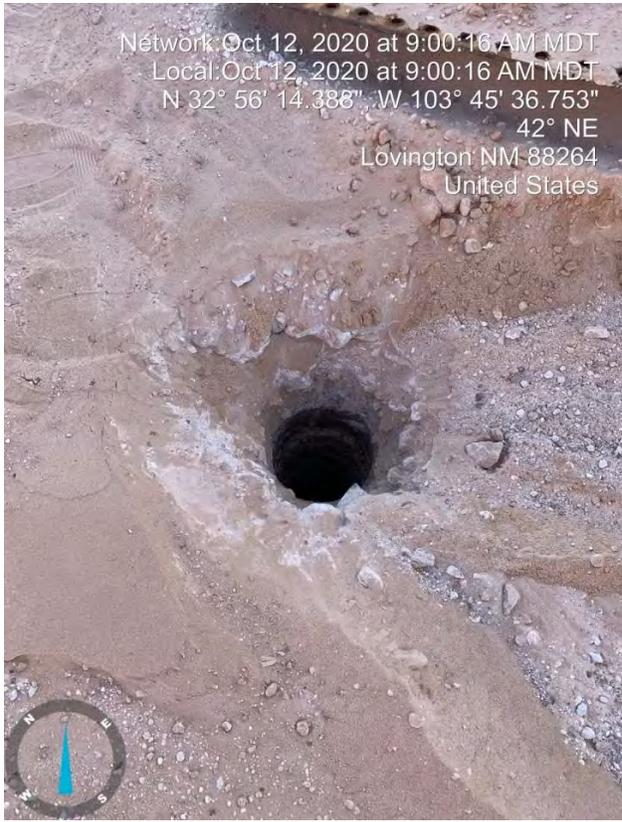


### Photographs

<b>Photo:</b> 5	
<b>Direction:</b> North	
<b>Description:</b> Eight foot deep excavation	

<b>Photo:</b> 6	
<b>Direction:</b> Southeast	
<b>Description:</b> Southern view toward backfilled excavation and across surface scraped area over reserve pit	

### Photographs

<b>Photo:</b> 7	 <p>Network: Oct 12, 2020 at 9:00:16 AM MDT Local: Oct 12, 2020 at 9:00:16 AM MDT N 32° 56' 14.388", W 103° 45' 36.753" 42° NE Lovington NM 88264 United States</p>
<b>Direction:</b> Northeast	
<b>Description:</b> View directly above borehole drilled on location	

<b>Photo:</b> 8	 <p>Network: Oct 21, 2020 at 1:31:06 PM MDT Local: Oct 21, 2020 at 1:31:06 PM MDT N 32° 56' 14.390", W 103° 45' 36.962" 277° W Lovington NM 88264 United States</p>
<b>Direction:</b> West	
<b>Description:</b> View over borehole location after plugging	

**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 Column	Water
<a href="#">L 06807</a>	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.



# 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)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64 Q16 Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
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.



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National Water Information System: Web Interface

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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

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

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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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 nadww01





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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

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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](http://www.ose.state.nm.us).

Sincerely,

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:	<input type="checkbox"/> Pollution Control And/Or Recovery	<input type="checkbox"/> Ground Source Heat Pump
<input type="checkbox"/> Exploratory Well (Pump test)	<input type="checkbox"/> Construction Site/Public Works Dewatering	<input type="checkbox"/> Other(Describe):
<input checked="" type="checkbox"/> Monitoring Well	<input type="checkbox"/> Mine Dewatering	

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

<input checked="" type="checkbox"/> 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: Andy Rickard	Contact or Agent: check here if Agent <input checked="" type="checkbox"/>
Mailing Address: P.O. Box 272	Mailing Address:
City: Midland	City:
State: TX	State: Zip Code: 79702
Phone: 432-620-9181 Phone (Work):	Phone: 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.: <b>L-15011</b>	Trn. No.: <b>678371</b>	Receipt No.: <b>2-42474</b>
Trans Description (optional): <b>MON</b>		
Sub-Basin: <b>L</b>	PCWLOG Due Date: <b>9/9/2021</b>	

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 1/10<sup>th</sup> 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

USE OF AUG 28 2020 AM 10:42

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

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:

<b>Exploratory:</b> <input type="checkbox"/> Include a description of any proposed pump test, if applicable.	<b>Pollution Control and/or Recovery:</b> <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for the pollution control or recovery operation. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The annual diversion amount. <input type="checkbox"/> The annual consumptive use amount. <input type="checkbox"/> The maximum amount of water to be diverted and injected for the duration of the operation. <input type="checkbox"/> The method and place of discharge <input type="checkbox"/> The method of measurement of water produced and discharged <input type="checkbox"/> The source of water to be injected. <input type="checkbox"/> The method of measurement of water injected. <input type="checkbox"/> The characteristics of the aquifer. <input type="checkbox"/> The method of determining the resulting annual consumptive use of water and depletion from any related stream system. <input type="checkbox"/> Proof of any permit required from the New Mexico Environment Department. <input type="checkbox"/> 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.	<b>Construction De-Watering:</b> <input type="checkbox"/> Include a description of the proposed dewatering operation, <input type="checkbox"/> The estimated duration of the operation, <input type="checkbox"/> The maximum amount of water to be diverted, <input type="checkbox"/> A description of the need for the dewatering operation, and, <input type="checkbox"/> A description of how the diverted water will be disposed of.	<b>Mine De-Watering:</b> <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following <input type="checkbox"/> A description of the need for mine dewatering. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The source(s) of the water to be diverted. <input type="checkbox"/> The geohydrologic characteristics of the aquifer(s). <input type="checkbox"/> The maximum amount of water to be diverted per annum. <input type="checkbox"/> The maximum amount of water to be diverted for the duration of the operation. <input type="checkbox"/> The quality of the water. <input type="checkbox"/> The method of measurement of water diverted. <input type="checkbox"/> The recharge of water to the aquifer. <input type="checkbox"/> Description of the estimated area of hydrologic effect of the project. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. <input type="checkbox"/> A description of the methods employed to estimate effects on surface water rights and underground water rights. <input type="checkbox"/> Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect
<b>Monitoring:</b> <input checked="" type="checkbox"/> Include the reason for the monitoring well, and, <input checked="" type="checkbox"/> The duration of the planned monitoring.		<b>Ground Source Heat Pump:</b> <input type="checkbox"/> Include a description of the geothermal heat exchange project, <input type="checkbox"/> The number of boreholes for the completed project and required depths. <input type="checkbox"/> The time frame for constructing the geothermal heat exchange project, and, <input type="checkbox"/> The duration of the project. <input type="checkbox"/> 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

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)

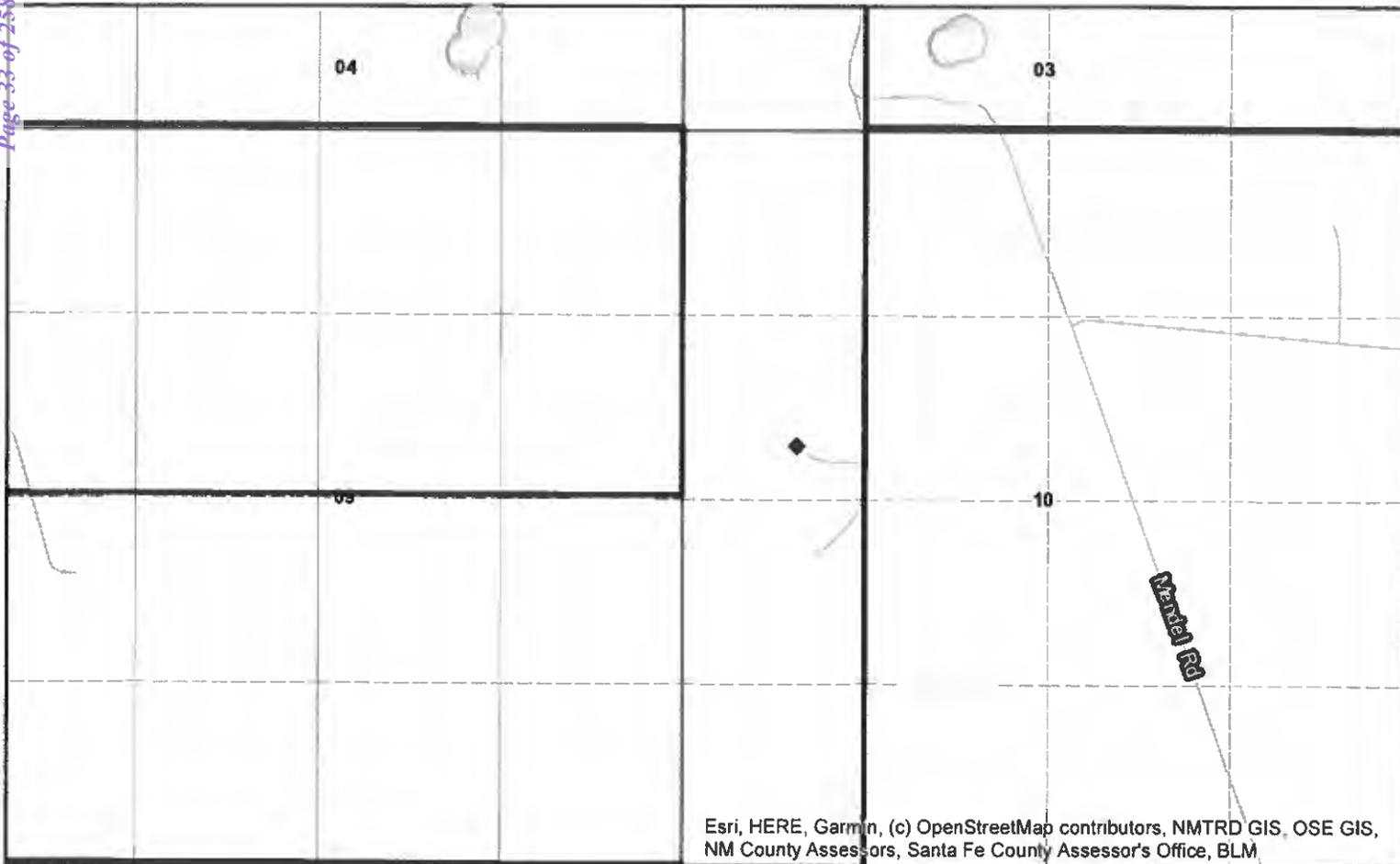
- 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) 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



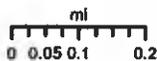


Esri, HERE, Garmin, (c) OpenStreetMap contributors, NMTRD GIS, OSE GIS, NM County Assessors, Santa Fe County Assessor's Office, BLM

**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 data accurately depicts the public information in their possession. However, no degree of error is guaranteed in all cases, and this map may contain omissions and errors in scale, resolution, accuracy, positional accuracy, development methodology, interpretation of source data, and other circumstances. 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

Cambrian Mgmt

SEP 24 2020

Received

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

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

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.

Aggrieval 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/](http://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](mailto: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@cambrianmgmt.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: Christopher Angel

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

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

	<b>Interval 1 – deepest</b>	<b>Interval 2</b>	<b>Interval 3 – most shallow</b> 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			

USE BY AUG 28 2020 10:42

**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 of 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	

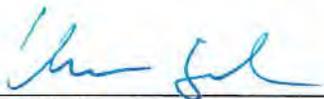
OSE DIT AUG 28 2020 10:43

**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. Aggrieval 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 21<sup>th</sup> 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

<b>1. GENERAL AND WELL LOCATION</b>	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 * DATUM REQUIRED: WGS 84		
		LONGITUDE 103	45	36.78	W			
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								
<b>2. DRILLING &amp; CASING INFORMATION</b>	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: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) NA			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> 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				
<b>3. ANNULAR MATERIAL</b>	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





# 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 <i>Top Ju</i>	

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)  $12 \times 20 = \del{240} 1:05$

5th 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 backhoe

Lyford 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

4.6.20

SP9 <sub>surf</sub>	39	$39 \times 20 = 720$	TPH	12:02
Deeper	2	$32 \times 20 = 640$	TPH	12:10
	4	$84 \times 20 = 1680$	TPH	12:22
	6	$64 \times 20 = 1280$	TPH	12:31
	8			
	10			
	12			
	14			
	16			

SP10 <sub>surf</sub>	20	$20 \times 20 = 400$	TPH	9:31
	2	$28 \times 20 = 560$	TPH	9:19
	4	$24 \times 20 = 480$	TPH	9:33
	6	$20 \times 20 = 400$	TPH	9:45
	8	$24 \times 20 = 480$	TPH	
LAB (10)	16	$16 \times 20 = 320$		11:57

SP11 <sub>surf</sub>	24	$24 \times 20 = 480$	TPH	8:33
	2	$20 \times 20 = 400$	TPH	8:45
LAB (14)	16	$16 \times 20 = 320$		8:53

SP12 <sub>surf</sub>	36	$36 \times 20 = 720$	TPH	10:40
	2	$24 \times 20 = 480$	TPH	10:47

4.6.20

SP126 20x20=400 TPH 11:04

8 16x20=320 TPH 2:30

LAB (10) 16x20=320 2:35

SP13<sub>surf</sub> 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

SP14<sub>surf</sub> 16x20=320 TPH 11:15

Deeper 2 20x20=400 TPH 11:22

4 24x20=480 TPH 11:34

6

8

Santa's Energy Rancho Verde State Well #2 3/7/16

SP15-Surf

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

12 x 20 = 240  
12 x 20 = 240  
12 x 20 = 240

7:37  
7:43  
2:14

TOP Soil  
Top/Cal  
Caliche

16-Surf

2'  
4'

12 x 20 = 240  
8 x 20 = 160  
8 x 20 = 160

7:50  
7:55  
8:03

TOP Soil  
TOP Soil  
Caliche

17-Surf

2'  
4'

20 x 20 = 400  
16 x 20 = 320  
16 x 20 = 320

8:10  
8:16  
8:27

TOP Soil  
TOP/Cal  
TOP/Cal

18-Surf

2'  
4'  
6'

28 x 20 = 560  
36 x 20 = 720  
28 x 20 =  
24 x 20 = 480

8:39  
8:48  
12:34 TPH  
1:20

TOP Soil  
TOP Soil  
Caliche

19-Surf

2'  
4'

12 x 20 = 240  
12 x 20 = 240  
8 x 20 = 160

9:20  
9:33  
9:40

TOP Soil  
TOP Soil  
Caliche

20-Surf

2'  
4'  
6'  
8'

20 x 20 = 400  
16 x 20 = 320  
56 x 20 = 1120  
32 x 20 = 640  
24 x 20 = 480

9:52  
10:01  
10:12 TPH  
10:26 TPH  
10:42 TPH

TOP Soil  
TOP Soil  
TOP Soil  
Caliche  
Caliche

SP21-Surf  
2'  
4'

16 x 20 = 320  
12 x 20 = 240  
12 x 20 = 240

10:49 Topsoil  
10:57 Topsoil  
11:04 TPH Topsoil

SP22-Surf  
2'  
4'  
6'  
8'

20 x 20 = 400  
32 x 20 = 640  
12 x 20 = 240  
12 x 20 = 240  
12 x 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'

110 x 20 = 800  
80 x 20 = 1600  
32 x 20 = 640  
32 x 20 = 640

8:35 TPH Caliche  
1:42 TPH Caliche  
2:00 Caliche  
2:05

SP8-8'  
10'  
12'

20 x 20 = 400  
x 20 =  
x 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  
1:10

SW8-Surf  
1'  
2'

$$20 \times 20 = 400$$

$$20 \times 20 = 400$$

$$16 \times 20 = 320$$

1:15  
1:17  
1:20

SW9-Surf  
1'  
2'

$$16 \times 20 = 320$$

$$16 \times 20 = 320$$

$$8 \times 20 = 160$$

1:30  
1:33  
1:34

SW10-Surf  
1'  
2'

$$12 \times 20 = 240$$

$$12 \times 20 = 240$$

$$8 \times 20 = 160$$

1:40  
1:43  
1:47

SW11-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'	<sup>36</sup> <del>30</del> x 20 = 720 TPH	8:33
- Cant go Deeper truckhoe Could Not go any more		
SP7-8' 10'	16 x 20 = 320 48 x 20 = 960	9:20 10:00
SW1-Surf 1' 2'	16 x 20 = 320 12 x 20 = 240 12 x 20 = 240	9:05 9:07 9:09
SW2-Surf 1' 2'	16 x 20 = 320 16 x 20 = 320 12 x 20 = 240	9:25 9:28 9:30
SW3-Surf 1' 2'	16 x 20 = 320 12 x 20 = 240 8 x 20 = 160	9:33 9:35 9:37
SW4-Surf 1' 2'	16 x 20 = 320 16 x 20 = 320 8 x 20 = 160	10:15 10:18 10:20
SPH-6' 8' 10'	16 x 20 = 320 12 x 20 = 240 8 x 20 = 160	10:53 11:10 11:50
SW5-Surf 1' 2'	16 x 20 = 320 16 x 20 = 320 12 x 20 = 240	10:21 10:23 10:27
SW6-Surf 1' 2'	16 x 20 = 320 12 x 20 = 240 8 x 20 = 160	10:40 10:43 10:48

Grand Banks Kancho Verde 10 Statewell #002 4/9/2020

SP23-Surf

2'	$12 \times 20 = 240$	TPH	8:56
4'	$24 \times 20 = 480$	TPH	9:04
6'	$8 \times 20 = 160$	TPH	9:20
8'	$8 \times 20 = 160$	TPH	9:28
10'	$12 \times 20 = 240$	TPH	9:40
12'	$20 \times 20 = 400$	TPH	9:53
14'	$20 \times 20 = 400$	TPH?	10:06
16'	$20 \times 20 = 400$		10:40
18'	$40 \times 20 = 800$		11:00
	$20 \times 20 = 400$		11:14

SP24-Surf

2'	$12 \times 20 = 240$		11:49
4'	$12 \times 20 = 240$		11:55
6'	$24 \times 20 = 480$		1:10
	$20 \times 20 = 400$		1:19

28

SW7-Surf  
1'  
2'

$$16 \times 20 = 320$$

$$12 \times 20 = 240$$

$$8 \times 20 = 160$$

1:05  
1:09  
1:10

SW8-Surf  
1'  
2'

$$20 \times 20 = 400$$

$$20 \times 20 = 400$$

$$16 \times 20 = 320$$

1:15  
1:17  
1:20

SW9-Surf  
1'  
2'

$$16 \times 20 = 320$$

$$16 \times 20 = 320$$

$$8 \times 20 = 160$$

1:30  
1:33  
1:34

SW10-Surf  
1'  
2'

$$12 \times 20 = 240$$

$$12 \times 20 = 240$$

$$8 \times 20 = 160$$

1:40  
1:43  
1:47

SW11-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 State Well #002 4/13/14

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 truck 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

411412

SP/SW	Data	Time	Lab
SP25-Surf 2' 4' 6' 8' 10'	16x20 = 320	8:11	
	28x20 = 560	8:20	
	20x20 = 400	8:38	
	36x20 = 720	<del>8:55</del>	
	16x20 = 320	9:03	
	8x20 = 160	9:16	Lab
SP27-Surf 2' 4'	16x20 = 320	9:45	
	16x20 = 320	10:02	
	12x20 = 240	10:27	Lab
SP28-Surf 2' 4' 6'	24x20 = 480	10:55	
	24x20 = 480	11:03	
	20x20 = 400	12:04	
	16x20 = 320	12:26	Lab
SP29-Surf 2' 4' 6' 8'	12x20 = 240	12:50	
	24x20 = 480	12:59	
	12x20 = 240	1:15	
	12x20 = 240	1:27	
	8x20 = 160	1:40	Lab
SP30-Surf 2' 4' 6' 8' 10' 12'	20x20 = 400	2:06	
	16x20 = 320	2:15	
	12x20 = 240	2:35	
	12x20 = 240	2:38	
	8x20 = 160	2:39	
	12x20 = 240	2:45	
	12x20 = 240	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 Havel 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**

Kind & Variety	Pure Seed	Germ	Dormant	Hard Seed	Origin
Gramma Blue, "Hachita" (Bouteloua gracilis)	50.08%	98.00%	0.00%	0.00%	TX
Gramma, Sidcoats "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 that reads 'Walter Hinchman'.

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.  
 Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.  
 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.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



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
---	--	-----------------------------

**SP1-4'**  
**P004014-01 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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 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
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**SP2-4'**  
**P004014-02 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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 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
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**SP3-4'**  
**P004014-03 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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	<b>210</b>	20.0	mg/kg	1	2015003	04/06/20	04/06/20	EPA 300.0/9056A	
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**SP4-4'****P004014-04 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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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**SP5-8'**  
**P004014-05 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
<b>Volatile Organics by EPA 8021</b>									
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	<b>0.0726</b>	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
p,m-Xylene	<b>0.158</b>	0.0500	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
o-Xylene	<b>0.0353</b>	0.0250	mg/kg	1	2015001	04/06/20	04/06/20	EPA 8021B	
Total Xylenes	<b>0.194</b>	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>	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
Diesel Range Organics (C10-C28)	<b>1540</b>	125	mg/kg	5	2015002	04/06/20	04/06/20	EPA 8015D	
Oil Range Organics (C28-C40)	<b>694</b>	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>	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
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>	
<b>Anions by 300.0/9056A</b>									
Chloride	<b>4870</b>	100	mg/kg	5	2015003	04/06/20	04/06/20	EPA 300.0/9056A	

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

<b>Blank (2015003-BLK1)</b>				Prepared: 04/06/20 0 Analyzed: 04/06/20 1						
Chloride	ND	20.0	mg/kg							
<b>LCS (2015003-BS1)</b>				Prepared: 04/06/20 0 Analyzed: 04/06/20 1						
Chloride	253	20.0	mg/kg	250		101	90-110			
<b>Matrix Spike (2015003-MS1)</b>				Source: P004013-01 Prepared: 04/06/20 0 Analyzed: 04/06/20 1						
Chloride	596	20.0	mg/kg	250	295	120	80-120			
<b>Matrix Spike Dup (2015003-MSD1)</b>				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

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	
PO Box 1058	Project Number:	19054-0003	<b>Reported:</b>
Hobbs NM, 88240	Project Manager:	Natalie Gladden	04/08/20 09:53

**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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Client: Grand Banks **Rancho Verde 10 State Battery**

Project: H. Gladden

Project Manager: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Report due by: \_\_\_\_\_

**Bill To**  
 Attention: Natalie Gladden  
 Address: 4024 Plains Hwy  
 City, State, Zip: Lovington  
 Phone: \_\_\_\_\_  
 Email: ngladden@hensry-hare.com

**Lab Use Only**  
 Lab WO# P007014 Job Number 190540003

TAT: 1D  3D

EPA Program: RCRA  CWA  SDWA

Analysis and Method: \_\_\_\_\_ State: \_\_\_\_\_

DRO/DRO 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   
 TX  OK

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	BGDOC - TX	Remarks
	<u>4/2/20</u>	<u>glass</u>		<u>SP1-4'</u>	<u>1</u>									
				<u>SP2-4'</u>	<u>2</u>									
				<u>SP3-4'</u>	<u>3</u>									
				<u>SP4-4'</u>	<u>4</u>									
				<u>SP5-8'</u>	<u>5</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>Natalie Gladden</u>	Date <u>4/3/20</u>	Time <u>11:50</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>4-3-2020</u>	Time <u>1150</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>4-3-2020</u>	Time <u>1420</u>	Received by: (Signature) <u>Rhine Lopez</u>	Date <u>4/6/20</u>	Time <u>7:30</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.



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

#002 Per Natalie  
 4/7/20 RL

Received by: OCD - 10/26/2020 2:44:58 PM  
 41 fo 41 a0ed

Client: <u>Grand Banks</u>		Bill To		Lab Use Only		TAT		EPA Program							
Project: <u>N. Gladden</u>		Attention: <u>Natalie Gladden</u>		Lab WO#	Job Number	1D	3D	RCRA	CWA	SDWA					
Project Manager:		Address: <u>4024 Plains Hwy</u>		<u>P004014</u>	<u>19054-0003</u>	<input checked="" type="checkbox"/>									
Address:		City, State, Zip <u>Lovington</u>		Analysis and Method						State					
City, State, Zip		Phone:		DRO/DRO 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: <u>ngladden@</u>										TX	OK		
Email:		<u>henry-hare.com</u>													
Report due by:		Remarks													

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	BGDOC - TX	Remarks		
	<u>4/2/20</u>	<u>glass</u>		<u>SP1-4'</u>	<u>1</u>											
	}	}	}	<u>SP2-4'</u>	<u>2</u>											
				<u>SP3-4'</u>	<u>3</u>											
				<u>SP4-4'</u>	<u>4</u>											
				<u>SP5-8'</u>	<u>5</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: \_\_\_\_\_

Relinquished by: (Signature) <u>Natalie Gladden</u>	Date <u>4/3/20</u>	Time <u>11:50</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>4.3.2020</u>	Time <u>1150</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>4.3.2020</u>	Time <u>1420</u>	Received by: (Signature) <u>Rhine Lopez</u>	Date <u>4/6/20</u>	Time <u>7:30</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.

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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 that reads 'Walter Hinchman'.

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 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
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**SP15-4'**  
**P004025-01 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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 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
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**SP16-4'**  
**P004025-02 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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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**SP17-4'**  
**P004025-03 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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 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
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**SP18-6'**  
**P004025-04 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		105 %		70-130	2015019	04/09/20	04/09/20	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		105 %		70-130	2015019	04/09/20	04/09/20	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		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 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
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**SP19-4'**  
**P004025-05 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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 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
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**SP20-8'**  
**P004025-06 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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)	<b>129</b>	25.0	mg/kg	1	2015011	04/08/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	<b>128</b>	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	<b>240</b>	40.0	mg/kg	2	2015022	04/09/20	04/09/20	EPA 300.0/9056A	
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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
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**SP21-4'  
P004025-07 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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 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
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**SP22-8'  
P004025-08 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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)	<b>119</b>	25.0	mg/kg	1	2015011	04/08/20	04/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	<b>74.4</b>	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 PO Box 1058 Hobbs NM, 88240	Project Name: Rancho Verde State Well #2 Project Number: 19054-0003 Project Manager: Caleb Pilcher	<b>Reported:</b> 04/10/20 16:04
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**SP9-14'**  
**P004025-09 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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	<b>0.0521</b>	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	<b>0.0521</b>	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)	<b>575</b>	25.0	mg/kg	1	2015011	04/08/20	04/10/20	EPA 8015D	
Oil Range Organics (C28-C40)	<b>280</b>	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	<b>298</b>	40.0	mg/kg	2	2015022	04/09/20	04/09/20	EPA 300.0/9056A	
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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
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**SP5-12'**  
**P004025-10 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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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**SP10-10'**  
**P004025-11 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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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**SP11-4'**  
**P004025-12 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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 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
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**SP12-10'**  
**P004025-13 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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 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
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**SP13-16'**  
**P004025-14 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
<b>Volatile Organics by EPA 8021</b>									
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	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
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	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
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	
<b>Anions by 300.0/9056A</b>									
Chloride	ND	20.0	mg/kg	1	2015022	04/09/20	04/09/20	EPA 300.0/9056A	

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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
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**SP6-6'**  
**P004025-15 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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	<b>0.0670</b>	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	<b>0.0670</b>	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)	<b>831</b>	25.0	mg/kg	1	2015011	04/08/20	04/10/20	EPA 8015D	
Oil Range Organics (C28-C40)	<b>445</b>	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	<b>5550</b>	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	<b>Reported:</b> 04/10/20 16:04
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	

### 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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.512</i>		"	<i>0.500</i>		<i>102</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.531</i>		"	<i>0.500</i>		<i>106</i>	<i>70-130</i>			
<i>Surrogate: Bromofluorobenzene</i>	<i>0.491</i>		"	<i>0.500</i>		<i>98.2</i>	<i>70-130</i>			

##### 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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.490</i>		"	<i>0.500</i>		<i>98.0</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.543</i>		"	<i>0.500</i>		<i>109</i>	<i>70-130</i>			
<i>Surrogate: Bromofluorobenzene</i>	<i>0.483</i>		"	<i>0.500</i>		<i>96.6</i>	<i>70-130</i>			

##### 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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.495</i>		"	<i>0.500</i>		<i>99.0</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.531</i>		"	<i>0.500</i>		<i>106</i>	<i>70-130</i>			
<i>Surrogate: Bromofluorobenzene</i>	<i>0.487</i>		"	<i>0.500</i>		<i>97.4</i>	<i>70-130</i>			

##### 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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.505</i>		"	<i>0.500</i>		<i>101</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.535</i>		"	<i>0.500</i>		<i>107</i>	<i>70-130</i>			
<i>Surrogate: Bromofluorobenzene</i>	<i>0.494</i>		"	<i>0.500</i>		<i>98.7</i>	<i>70-130</i>			

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Grand Banks	Project Name:	Rancho Verde State Well #2	<b>Reported:</b> 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	"							
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	8.50		"	8.00		106	50-150			

##### 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			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	8.64		"	8.00		108	50-150			

##### 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			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	8.71		"	8.00		109	50-150			

##### 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	8.69		"	8.00		109	50-150			

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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
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### 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 &amp; 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 &amp; 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 &amp; 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 &amp; 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	<b>Reported:</b> 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 2015019 - Purge and Trap EPA 5030A

##### Blank (2015019-BLK1)

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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 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
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**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 PO Box 1058 Hobbs NM, 88240	Project Name: Rancho Verde State Well #2 Project Number: 19054-0003 Project Manager: Caleb Pilcher	<b>Reported:</b> 04/10/20 16:04
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**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							
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**LCS (2015022-BS1)**

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

Chloride	249	20.0	mg/kg	250		99.5	90-110			
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**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			
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**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	
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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 #2	
PO Box 1058	Project Number:	19054-0003	<b>Reported:</b>
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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Received by: OGD - 10/26/2020 2:44:58 PM  
92 fo 52 aocd

Client: <u>Grand Banks</u> Project: <u>Pancho Verde Statewell #2</u> Project Manager: <u>Calob Pitcher</u> Address: <u>4024 Plains Hwy</u> City, State, Zip: <u>Louington, NM</u> Phone: <u>575-464-2125</u> Email: <u>calob@hungry-horse.com</u> Report due by:	Bill To Attention: <u>Natalie Gladden</u> Address: City, State, Zip Phone: Email:	Lab Use Only Lab WO# <u>P004025</u> Job Number <u>19054-0003</u>	TAT 1D <input checked="" type="checkbox"/> 3D	EPA Program RCRA CWA SDWA
		Analysis and Method		State
		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
		TX	OK	AZ
Remarks				

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
2:29	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: Calob 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>Calob Pitcher</u>	Date <u>4/7/2020</u>	Time <u>4:46</u>	Received by: (Signature) <u>Natalie Gladden</u>	Date <u>4/7/20</u>	Time <u>4:46</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Natalie Gladden</u>	Date <u>4/8/20</u>	Time <u>1:05</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>4-8-2020</u>	Time <u>1:05</u>	
Relinquished by: (Signature) <u>[Signature]</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>	

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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Received by: OCD - 10/26/2020 2:44:58 PM  
92 fo 92 aocd

Client: <u>Grand Banks</u> Project: <u>Ranchy Ureole Statewell#2</u> Project Manager: <u>Caleb Pitcher</u> Address: <u>4024 Plains Hwy</u> City, State, Zip: <u>Louington, VA</u> Phone: <u>575-404-8123</u> Email: <u>n.gladden@Hungry-Horse.com</u> Report due by:		Bill To Attention: <u>Natalie Gladden</u> Address: City, State, Zip Phone: Email:		Lab Use Only Lab WO# <u>PDD4025</u> Job Number <u>19054-0003</u>		TAT 1D <input checked="" type="checkbox"/> 3D		EPA Program RCRA    CWA    SDWA					
		Analysis and Method DRO/DRO by 8015    GRO/DRO by 8015    BTEX by 8021    VOC by 8260    Metals 6010    Chloride 300.0    BGDOC - NM    BGDOC - TX		State NM    CO    UT    AZ TX    OK									
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number						Remarks		
10:33	4/6/2020	S	1	SP5-12'	10							X	
11:57				SP10-10'	11							X	
8:53				SP11-4'	12							X	
2:35				SP12-10'	13							X	
1:54				SP13-16'	14							X	
2:28				SP6-6'	15								
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>Caleb Pitcher</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 Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>					
<u>Caleb Pitcher</u>		4/7/2020	4:46	<u>Natalie Gladden</u>		4/7/20	4:46						
<u>Natalie Gladden</u>		4/8/20	1:05	<u>Justin</u>		4-8-2020	1305						
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time						
<u>Justin</u>		4-8-2020	1640	<u>Ravin Lopez</u>		4/9/20	9:30						
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.													



5796 US Highway 64, Farmington, NM 87401  
24 Hour Emergency Response Phone: (800) 362-1879

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

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labadmin@envirotech-inc.com

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## 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 that reads 'Walter Hinchman'.

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	
PO Box 1058	Project Number:	19054-0003	<b>Reported:</b>
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/16/20 11:43

### 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 PO Box 1058 Hobbs NM, 88240	Project Name: Rancho Verde 10 SW #2 Project Number: 19054-0003 Project Manager: Caleb Pilcher	<b>Reported:</b> 04/16/20 11:43
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**SP24-22'**  
**P004050-01 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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	<b>880</b>	20.0	mg/kg	1	2016022	04/15/20	04/15/20	EPA 300.0/9056A	
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Grand Banks PO Box 1058 Hobbs NM, 88240	Project Name: Rancho Verde 10 SW #2 Project Number: 19054-0003 Project Manager: Caleb Pilcher	Reported: 04/16/20 11:43
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**SP25-4'**  
**P004050-02 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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	<b>Reported:</b> 04/16/20 11:43
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 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	"							
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	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			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	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			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	8.39		"	8.00		105	50-150			

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

<b>Blank (2016022-BLK1)</b>				Prepared: 04/15/20 0 Analyzed: 04/15/20 1						
Chloride	ND	20.0	mg/kg							
<b>LCS (2016022-BS1)</b>				Prepared: 04/15/20 0 Analyzed: 04/15/20 1						
Chloride	253	20.0	mg/kg	250	880	101	90-110			
<b>Matrix Spike (2016022-MS1)</b>				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			
<b>Matrix Spike Dup (2016022-MSD1)</b>				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	
PO Box 1058	Project Number:	19054-0003	<b>Reported:</b>
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/16/20 11:43

**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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Received by: D. D. - 11/26/2020 2:44:58 PM  
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Client: <u>Camel Banks</u> Project: <u>Kaucha Verde 10 SW #2</u> Project Manager: <u>Caleb Pichler</u> Address: <u>4024 Plains Hwy</u> City, State, Zip: <u>Lawson NM</u> Phone: <u>575-404-0123</u> Email: <u>U.Glucken@Hungry-Horse.com</u>	<b>Report Attention</b> Report due by: Attention: <u>Natalie Glucken</u> Address: City, State, Zip: Phone: Email:	<b>Lab Use Only</b> Lab WO# <u>P004050</u>	Job Number <u>19054-0003</u>	TAT 1D <input checked="" type="checkbox"/> 3D	<b>EPA Program</b> RCRA CWA SDV	State NM CO UT A
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Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	Analysis and Method								State				Remarks	
						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		
102	4/13/20	S	1	SP24-22'	1														
2:05	1	1	1	SP25-4'	2														

**Additional Instructions:**  
JS 4.14.2020 1405      Rain Lopez 4/13/20 9:30

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]

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<u>[Signature]</u>	4/13/20	4:28	<u>[Signature]</u>	4/13/20	4:30	Received on ice: <u>Y</u> / N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 _____ T2 _____ T3 _____
<u>[Signature]</u>	4/14/20	10:45	<u>[Signature]</u>	4-14-2020	1045	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 that reads 'Walter Hinchman'.

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 PO Box 1058 Hobbs NM, 88240	Project Name: Rancho Verde 10 SW #002 Project Number: 19054-0003 Project Manager: Caleb Pilcher	<b>Reported:</b> 04/20/20 14:44
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**SP26-10'**  
**P004101-01 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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 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
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**SP27-4'**  
**P004101-02 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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 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
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**SP28-6'**  
**P004101-03 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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	<b>190</b>	20.0	mg/kg	1	2016034	04/17/20	04/17/20	EPA 300.0/9056A	
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Grand Banks PO Box 1058 Hobbs NM, 88240	Project Name: Rancho Verde 10 SW #002 Project Number: 19054-0003 Project Manager: Caleb Pilcher	<b>Reported:</b> 04/20/20 14:44
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**SP29-8'**  
**P004101-04 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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 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
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**SP30-18'**  
**P004101-05 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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 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
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**SP31-13'**  
**P004101-06 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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 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
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### 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 &amp; 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 &amp; 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 PO Box 1058 Hobbs NM, 88240	Project Name: Rancho Verde 10 SW #002 Project Number: 19054-0003 Project Manager: Caleb Pilcher	<b>Reported:</b> 04/20/20 14:44
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**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 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
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**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 PO Box 1058 Hobbs NM, 88240	Project Name: Rancho Verde 10 SW #002 Project Number: 19054-0003 Project Manager: Caleb Pilcher	<b>Reported:</b> 04/20/20 14:44
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**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**

<b>Blank (2016034-BLK1)</b>				Prepared: 04/17/20 0 Analyzed: 04/17/20 1						
Chloride	ND	20.0	mg/kg							
<b>LCS (2016034-BS1)</b>				Prepared: 04/17/20 0 Analyzed: 04/17/20 1						
Chloride	249	20.0	mg/kg	250		99.7	90-110			
<b>Matrix Spike (2016034-MS1)</b>				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			
<b>Matrix Spike Dup (2016034-MSD1)</b>				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	

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	<b>Reported:</b>
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/20/20 14:44

### 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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*Rush*

Client: Gravel Banks  
 Project: Kanaka Bend 10SW#002  
 Project Manager: Caleb Pitcher  
 Address: 4020 Plains Trail  
 City, State, Zip: Louisiana, LA  
 Phone: 575-404-2123  
 Email: cl@gholden@kumby-horse.com

*Hungry Horse*

Report Attention  
 Report due by:  
 Attention: Natalie Gholden  
 Address:  
 City, State, Zip:  
 Phone: ngld@hungry-horse.com  
 Email: ngld@hungry-horse.com

Lab Use Only  
 Lab WO# P00401 Job Number 19054-0003  
 TAT: 1D  3D   
 EPA Program: RCRA  CWA  SDWA

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	Analysis and Method								State				Remarks			
						DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005	BGDOC - NM	BGDOC - TX	NM	CO	UT	AZ				
9:16	4/14/20	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 misstating 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) *[Signature]* Date 4/15/20 Time 4:55  
 Received by: (Signature) *[Signature]* Date 4/15/20 Time 4:55  
 Relinquished by: (Signature) *[Signature]* Date 4/16/20 Time 1400  
 Received by: (Signature) *[Signature]* Date 4/16-2020 Time 1400

Lab Use Only  
 Received on ice:  Y /  N  
 T1 \_\_\_\_\_ T2 \_\_\_\_\_ T3 \_\_\_\_\_  
 AVG Temp °C 4

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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*4-16-2020 1605*  
 5796 US Highway 64, Farmington, NM 87401  
 24 Hour Emergency Response Phone (800) 362-1879

*4/16/20 9:30*  
 Ph (505) 632-1881 Fx (505) 632-1865

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

Received by OGD: 4/26/2020 2:44:58 PM

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## 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:

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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**SW1-2'**  
**P004119-01 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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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**SW2-2'  
P004119-02 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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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**SW3-2'**  
**P004119-03 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
<b>Volatile Organics by EPA 8021</b>									
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	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
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	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
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	
<b>Anions by 300.0/9056A</b>									
Chloride	ND	20.0	mg/kg	1	2017026	04/22/20	04/22/20	EPA 300.0/9056A	

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

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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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**SW5-2'**  
**P004119-05 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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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**SW6-2'**  
**P004119-06 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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)	<b>145</b>	25.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
Oil Range Organics (C28-C40)	<b>139</b>	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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**SW7-2'**  
**P004119-07 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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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**SW8-2'****P004119-08 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

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

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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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**SW10-2'  
P004119-10 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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 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
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**SW11-2'  
P004119-11 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
<b>Volatile Organics by EPA 8021</b>									
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	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
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	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
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	
<b>Anions by 300.0/9056A</b>									
Chloride	ND	20.0	mg/kg	1	2017026	04/22/20	04/22/20	EPA 300.0/9056A	

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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
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**SP7-6'  
P004119-12 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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	<b>0.0717</b>	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	<b>0.0717</b>	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)	<b>12500</b>	500	mg/kg	20	2017025	04/22/20	04/22/20	EPA 8015D	
Oil Range Organics (C28-C40)	<b>4430</b>	1000	mg/kg	20	2017025	04/22/20	04/22/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		114 %		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>		91.4 %		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 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
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**SP8-8'**  
**P004119-13 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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)	<b>280</b>	25.0	mg/kg	1	2017025	04/22/20	04/22/20	EPA 8015D	
Oil Range Organics (C28-C40)	<b>154</b>	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	<b>35.6</b>	20.0	mg/kg	1	2017026	04/22/20	04/22/20	EPA 300.0/9056A	
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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
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**SP14-14'**  
**P004119-14 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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	<b>Reported:</b> 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	"							
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	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			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	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			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	8.43		"	8.00		105	50-150			

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

### 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 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
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### 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 PO Box 1058 Hobbs NM, 88240	Project Name: Rancho Verde 10 SW #002 Project Number: 19054-0003 Project Manager: Caleb Pilcher	<b>Reported:</b> 04/23/20 13:35
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**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	51.0	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	
PO Box 1058	Project Number:	19054-0003	<b>Reported:</b>
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	04/23/20 13:35

**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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Received from Client: 14/26/2020 2:44:58 PM  
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Client: <u>Grand Banks</u> Project: <u>Ranchy Road SW #002</u> Project Manager: <u>Caleb Picheur</u> Address: <u>4024 Plains Hwy</u> City, State, Zip: <u>Lakington, NM</u> Phone: <u>575-464-0123</u> Email: <u>N.Gladden@Hungry-Horse.com</u>	Report Attention Report due by: Attention: <u>Natalie Gladden</u> Address: City, State, Zip: Phone: Email:	Lab Use Only Lab WO# <u>P004119</u> Job Number <u>19054-0003</u>	TAT 1D <input checked="" type="checkbox"/> 3D <input type="checkbox"/>	EPA Program RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SD <input type="checkbox"/>	State NM <input type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/>
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Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	Analysis and Method								State				Remarks	
						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	AZ		
9:09	4/15/20	S	1	SW1-2'	1														
9:30				SW2-2'	2														
9:37				SW3-2'	3														
10:20				SW4-2'	4														
10:27				SW5-2'	5														
10:48				SW6-2'	6														
1:10				SW7-2'	7														
1:20				SW8-2'	8														
1:34				SW9-2'	9														
1:47				SW10-2'	10														

**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 Picheur

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 Picheur</u>	Date <u>4/20/2020</u>	Time <u>7:42</u>	Received by: (Signature) <u>Natalie Gladden</u>	Date <u>4/20/20</u>	Time <u>7:42</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Relinquished by: (Signature) <u>Natalie Gladden</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>	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

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Received from Client: 4/22/2020 2:44:58 PM Page 147 of 258

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

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO 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: [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>4/20/2020</u>	Time <u>7:47</u>	Received by: (Signature) <u>Natalie Gladden</u>	Date <u>4/20/20</u>	Time <u>2:07</u>	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Natalie Gladden</u>	Date <u>4/21/20</u>	Time <u>2:07</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>4-21-2020</u>	Time <u>1407</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 that reads 'Walter Hinchman'.

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.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.  
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 PO Box 1058 Hobbs NM, 88240	Project Name: Rancho Verde Project Number: 19054-0003 Project Manager: Natalie Gladden	Reported: 05/06/20 11:47
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**Sp 7-14'**  
**P005007-01 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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 PO Box 1058 Hobbs NM, 88240	Project Name: Rancho Verde Project Number: 19054-0003 Project Manager: Natalie Gladden	Reported: 05/06/20 11:47
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**Sp 21-8'**  
**P005007-02 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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 PO Box 1058 Hobbs NM, 88240	Project Name: Rancho Verde Project Number: 19054-0003 Project Manager: Natalie Gladden	<b>Reported:</b> 05/06/20 11:47
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**Sp 23-18'**  
**P005007-03 (Solid)**

Analyte	Result	Reporting							
		Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
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	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
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	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
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	
<b>Anions by 300.0/9056A</b>									
Chloride	162	20.0	mg/kg	1	2019004	05/05/20	05/05/20	EPA 300.0/9056A	

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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

### 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

##### 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

##### 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

##### 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 PO Box 1058 Hobbs NM, 88240	Project Name: Rancho Verde Project Number: 19054-0003 Project Manager: Natalie Gladden	Reported: 05/06/20 11:47
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### 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 &amp; 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 &amp; 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 &amp; 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 &amp; 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 PO Box 1058 Hobbs NM, 88240	Project Name: Rancho Verde Project Number: 19054-0003 Project Manager: Natalie Gladden	Reported: 05/06/20 11:47
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### 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 PO Box 1058 Hobbs NM, 88240	Project Name: Rancho Verde Project Number: 19054-0003 Project Manager: Natalie Gladden	<b>Reported:</b> 05/06/20 11:47
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**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	
PO Box 1058	Project Number:	19054-0003	<b>Reported:</b>
Hobbs NM, 88240	Project Manager:	Natalie Gladden	05/06/20 11:47

**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: <u>Grand Banks</u> Project: <u>Rancho Verde</u> Project Manager: Address: City, State, Zip Phone: Email:	<b>Report Attention</b> Report due by: Attention: <u>Natalie Gladden</u> Address: City, State, Zip Phone: Email:	<b>Lab Use Only</b> Lab WO# <u>P 005007</u> Job Number <u>19054-0003</u>	<b>TAT</b> 1D <input checked="" type="checkbox"/> 3D <input type="checkbox"/>	<b>EPA Program</b> RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/>
<b>Analysis and Method</b>			<b>State</b>	
			NM <input type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/>	

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: Ashton Fitch

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>Ashton Fitch</u>	Date 4/30/2020	Time 3:47	Received by: (Signature) <u>Natalie Gladden</u>	Date 4/30/20	Time 3:50	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Relinquished by: (Signature) <u>Natalie Gladden</u>	Date 5/4/20	Time 1250	Received by: (Signature) <u>Justin</u>	Date 5.4.2020	Time 1250	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.

Received by: 10/26/2020 2:44:58 PM Page 158 of 258

11-30

5-10-10/15-5

11-30

11-30



## 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 that reads 'Walter Hinchman'.

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	Project Name:	Rancho Verde 10 SW #002	
PO Box 1058	Project Number:	19054-0003	<b>Reported:</b>
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	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 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
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**SP33-18'**  
**P005011-01 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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 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
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**SP34-8'****P005011-02 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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 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
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**SP35-8'**  
**P005011-03 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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  
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

### 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	<b>Reported:</b> 05/08/20 12:31
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	

### 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 PO Box 1058 Hobbs NM, 88240	Project Name: Rancho Verde 10 SW #002 Project Number: 19054-0003 Project Manager: Caleb Pilcher	<b>Reported:</b> 05/08/20 12:31
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**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 PO Box 1058 Hobbs NM, 88240	Project Name: Rancho Verde 10 SW #002 Project Number: 19054-0003 Project Manager: Caleb Pilcher	<b>Reported:</b> 05/08/20 12:31
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**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	<b>Reported:</b>
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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## 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 that reads 'Walter Hinchman'.

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	Project Name:	Rancho Verde	<b>Reported:</b> 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 PO Box 1058 Hobbs NM, 88240	Project Name: Rancho Verde Project Number: 19054-0003 Project Manager: Natalie Gladden	Reported: 05/08/20 12:29
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**Sp 32-14'**  
**P005012-01 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**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  
PO Box 1058  
Hobbs NM, 88240

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

Reported:  
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 PO Box 1058 Hobbs NM, 88240	Project Name: Rancho Verde Project Number: 19054-0003 Project Manager: Natalie Gladden	Reported: 05/08/20 12:29
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### 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 &amp; 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 &amp; 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 &amp; 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 &amp; 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 PO Box 1058 Hobbs NM, 88240	Project Name: Rancho Verde Project Number: 19054-0003 Project Manager: Natalie Gladden	Reported: 05/08/20 12:29
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### 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 &amp; 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 &amp; 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 &amp; 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 &amp; 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 PO Box 1058 Hobbs NM, 88240	Project Name: Rancho Verde Project Number: 19054-0003 Project Manager: Natalie Gladden	<b>Reported:</b> 05/08/20 12:29
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**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**

<b>Blank (2019014-BLK1)</b>				Prepared: 05/07/20 0 Analyzed: 05/07/20 1						
Chloride	ND	20.0	mg/kg							
<b>LCS (2019014-BS1)</b>				Prepared: 05/07/20 0 Analyzed: 05/07/20 1						
Chloride	261	20.0	mg/kg	250		104	90-110			
<b>Matrix Spike (2019014-MS1)</b>				Source: P005011-01 Prepared: 05/07/20 0 Analyzed: 05/07/20 1						
Chloride	286	20.0	mg/kg	250	ND	114	80-120			
<b>Matrix Spike Dup (2019014-MSD1)</b>				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	
PO Box 1058	Project Number:	19054-0003	<b>Reported:</b>
Hobbs NM, 88240	Project Manager:	Natalie Gladden	05/08/20 12:29

**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 that reads 'Walter Hinchman'.

Date: 5/9/20

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.  
 Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.  
 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 State Well #002	<b>Reported:</b> 05/09/20 16:08
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
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 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
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**SP36-4'**  
**P005015-01 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
<b>Volatile Organics by EPA 8021</b>									
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	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
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	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
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	
<b>Anions by 300.0/9056A</b>									
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 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
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**SW12-2'  
P005015-02 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
<b>Volatile Organics by EPA 8021</b>									
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	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
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	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
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	
<b>Anions by 300.0/9056A</b>									
Chloride	ND	20.0	mg/kg	1	2019023	05/08/20	05/08/20	EPA 300.0/9056A	

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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
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**SW13-2'**  
**P005015-03 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
<b>Volatile Organics by EPA 8021</b>									
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	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
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	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
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	
<b>Anions by 300.0/9056A</b>									
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	<b>Reported:</b> 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	"							
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	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			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	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			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	8.31		"	8.00		104	50-150			

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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
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**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 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
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### 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 &amp; 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 &amp; 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 &amp; 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 &amp; 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 PO Box 1058 Hobbs NM, 88240	Project Name: Rancho Verde State Well #002 Project Number: 19054-0003 Project Manager: Caleb Pilcher	<b>Reported:</b> 05/09/20 16:08
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**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	60.9	103	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	
PO Box 1058	Project Number:	19054-0003	<b>Reported:</b>
Hobbs NM, 88240	Project Manager:	Caleb Pilcher	05/09/20 16:08

**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: <u>Grand Banks</u>		Report Attention		Lab Use Only			TAT		EPA Program						
Project: <u>Rancho Verde 10 state well #002</u>		Report due by:		Lab WO#		Job Number		1D	3D	RCRA	CWA	SDWA			
Project Manager:		Attention: <u>Natalie Gladden</u>		P <u>005015</u>		19054-0003									
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	AZ
Phone:		Phone:										X			
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
8:33	5/6	S	1	Sp 36-4'	1							X		
9:03	?	?	?	Sw 12-2'	2							X		
9:32	?	?	?	Sw 13-2'	3							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: Ashton Rick

Relinquished by: (Signature) <u>Ashton Rick</u>	Date <u>5-7-2020</u>	Time <u>6:40</u>	Received by: (Signature) <u>Rachel Rivera</u>	Date <u>5/7/20</u>	Time <u>6:40</u>	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Rachel Rivera</u>	Date <u>5/7/20</u>	Time <u>1345</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>5.7.2020</u>	Time <u>1345</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.

**envirotech Analytical Laboratory**  
 5796 US Highway 54, 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

Received by: OGD: 10/26/2020 2:44:58 PM Page 190 of 258



## 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 that reads 'Walter Hinchman'.

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 PO Box 1058 Hobbs NM, 88240	Project Name: Rancho Verde Project Number: 19054-0003 Project Manager: Daniel Dominguez	Reported: 07/30/20 09:15
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**FL1**  
**P007060-01 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						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	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2031004
Chloride	215	20.0	1	07/27/20	07/27/20	

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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
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**FL2**  
**P007060-02 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						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	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2031004
Chloride	216	20.0	1	07/27/20	07/27/20	

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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
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**SW1**  
**P007060-03 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2030023
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2030023
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2030021
	mg/kg	mg/kg				
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	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2031004
	mg/kg	mg/kg				
Chloride	47.9	20.0	1	07/27/20	07/27/20	

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**SW2**  
**P007060-04 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2030023
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2030023
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2030021
	mg/kg	mg/kg				
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	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2031004
	mg/kg	mg/kg				
Chloride	131	20.0	1	07/27/20	07/27/20	

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**SW3**  
**P007060-05 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		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	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg			Batch: 2031004
Chloride	125	20.0	1	07/27/20	07/27/20	

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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
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**SW4**  
**P007060-06 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2030023
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2030023
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2030021
	mg/kg	mg/kg				
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	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2031004
	mg/kg	mg/kg				
Chloride	136	20.0	1	07/27/20	07/27/20	

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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
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### 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  
PO Box 1058  
Hobbs NM, 88240

Project Name: Rancho Verde  
Project Number: 19054-0003  
Project Manager: Daniel Dominguez

Reported:  
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 PO Box 1058 Hobbs NM, 88240	Project Name: Rancho Verde Project Number: 19054-0003 Project Manager: Daniel Dominguez	Reported: 07/30/20 09:15
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**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 PO Box 1058 Hobbs NM, 88240	Project Name: Rancho Verde Project Number: 19054-0003 Project Manager: Daniel Dominguez	Reported: 07/30/20 09:15
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**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	Project Name:	Rancho Verde	
PO Box 1058	Project Number:	19054-0003	<b>Reported:</b>
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	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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Client: <b>Grand Banks</b>		Bill To		Lab Use Only				TAT		EPA Program						
Project: <b>Rancho Verde</b>		Attention:		Lab WO#		Job Number		1D	3D	RCRA	CWA	SDWA				
Project Manager: <b>Daniel Dominguez</b>		Address:		<b>P007060</b>		<b>19054-0003</b>										
Address:		City, State, Zip		Analysis and Method								State				
City, State, Zip		Phone:		DRO/DRO 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: <b>pm@hungry-horse.com</b>		Report due by:		Remarks												

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC - NM	BGDOC - TX				
	7/21/20	S	1	FL1	1								X					
	7/21/20	S	1	FL2	2								X					
	7/21/20	S	1	SW1	3								X					
	7/21/20	S	1	SW2	4								X					
	7/21/20	S	1	SW3	5								X					
	7/21/20	S	1	SW4	6								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) <i>[Signature]</i>	Date: <b>7/22/20</b>	Time: <b>1035</b>	Received by: (Signature) <i>[Signature]</i>	Date: <b>7-22-2020</b>	Time: <b>1035</b>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <b>4</b>
Relinquished by: (Signature) <i>[Signature]</i>	Date: <b>7-22-2020</b>	Time: <b>1640</b>	Received by: (Signature) <i>[Signature]</i>	Date: <b>7/23/20</b>	Time: <b>9:50</b>	
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.



5796 US Highway 64, Farmington, NM 87401  
 24 Hour Emergency Response Phone: (800) 362-1879

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



Received by Q&D: 10/26/2020 2:44:58 PM

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## 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 that reads 'Walter Hinchman'.

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 PO Box 1058 Hobbs NM, 88240	Project Name: Rancho Verde Project Number: 19054-0003 Project Manager: Daniel Dominguez	Reported: 07/30/20 09:21
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**C1**  
**P007061-01 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2030023
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2030023
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2030022
	mg/kg	mg/kg				
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	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2030029
	mg/kg	mg/kg				
Chloride	30.7	20.0	1	07/24/20	07/24/20	

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**C2**  
**P007061-02 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						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	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2030029
Chloride	26.0	20.0	1	07/24/20	07/24/20	

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**C3**  
**P007061-03 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2030023
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2030023
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2030022
	mg/kg	mg/kg				
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	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2030029
	mg/kg	mg/kg				
Chloride	64.7	20.0	1	07/24/20	07/24/20	

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**C4**  
**P007061-04 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						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	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2030029
Chloride	ND	20.0	1	07/24/20	07/24/20	

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**C5**  
**P007061-05 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2030023
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2030023
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2030022
	mg/kg	mg/kg				
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	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2030029
	mg/kg	mg/kg				
Chloride	ND	20.0	1	07/24/20	07/24/20	

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**C6**  
**P007061-06 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		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	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg			Batch: 2030029
Chloride	ND	20.0	1	07/24/20	07/24/20	

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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
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**C7**  
**P007061-07 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2030023
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2030023
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2030022
	mg/kg	mg/kg				
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	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2030029
	mg/kg	mg/kg				
Chloride	ND	20.0	1	07/24/20	07/24/20	

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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
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**C8**  
**P007061-08 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						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	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2030029
Chloride	ND	20.0	1	07/24/20	07/24/20	

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**C9**  
**P007061-09 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		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	
<i>Surrogate: n-Nonane</i>		104 %	50-200	07/23/20	07/27/20	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg			Batch: 2030029
Chloride	ND	20.0	1	07/24/20	07/24/20	

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**C10**  
**P007061-10 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2030023
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2030023
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2030022
	mg/kg	mg/kg				
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	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2030029
	mg/kg	mg/kg				
Chloride	ND	20.0	1	07/24/20	07/24/20	

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**C11**  
**P007061-11 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2030024
	mg/kg	mg/kg				
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>						
	99.4 %	50-150		07/23/20	07/24/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2030024
	mg/kg	mg/kg				
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.1 %	50-150		07/23/20	07/24/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2030022
	mg/kg	mg/kg				
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	
<i>Surrogate: n-Nonane</i>						
	95.1 %	50-200		07/23/20	07/27/20	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2030029
	mg/kg	mg/kg				
Chloride	ND	20.0	1	07/24/20	07/24/20	

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**C12**  
**P007061-12 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						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	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2030029
Chloride	ND	20.0	1	07/24/20	07/24/20	

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**C13**  
**P007061-13 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2030024
	mg/kg	mg/kg				
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>						
	98.4 %	50-150		07/23/20	07/24/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2030024
	mg/kg	mg/kg				
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/20	07/24/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.2 %	50-150		07/23/20	07/24/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2030022
	mg/kg	mg/kg				
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	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		07/23/20	07/28/20	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2030029
	mg/kg	mg/kg				
Chloride	ND	20.0	1	07/24/20	07/24/20	

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**C14**  
**P007061-14 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2030024
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2030024
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2030022
	mg/kg	mg/kg				
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	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2030029
	mg/kg	mg/kg				
Chloride	ND	20.0	1	07/24/20	07/24/20	

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**C15**  
**P007061-15 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2030024
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2030024
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2030022
	mg/kg	mg/kg				
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	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2030029
	mg/kg	mg/kg				
Chloride	ND	20.0	1	07/24/20	07/24/20	

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**C16**  
**P007061-16 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	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>		87.1 %	50-150	07/23/20	07/24/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg				Batch: 2030022
Diesel Range Organics (C10-C28)	<b>168</b>	50.0	2	07/23/20	07/28/20	
Oil Range Organics (C28-C40)	<b>166</b>	100	2	07/23/20	07/28/20	
<i>Surrogate: n-Nonane</i>		109 %	50-200	07/23/20	07/28/20	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg				Batch: 2030029
Chloride	ND	20.0	1	07/24/20	07/24/20	

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**C17**  
**P007061-17 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2030024
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2030024
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2030022
	mg/kg	mg/kg				
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	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2030029
	mg/kg	mg/kg				
Chloride	ND	20.0	1	07/24/20	07/24/20	

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**C18**  
**P007061-18 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2030024
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2030024
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2030022
	mg/kg	mg/kg				
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	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2030029
	mg/kg	mg/kg				
Chloride	ND	20.0	1	07/24/20	07/24/20	

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**C19**  
**P007061-19 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2030024
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2030024
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2030022
	mg/kg	mg/kg				
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	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2030029
	mg/kg	mg/kg				
Chloride	ND	20.0	1	07/24/20	07/24/20	

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**C20**  
**P007061-20 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2030024
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2030024
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2030022
	mg/kg	mg/kg				
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	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2030029
	mg/kg	mg/kg				
Chloride	ND	20.0	1	07/24/20	07/24/20	

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**C21**  
**P007061-21 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2030024
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2030024
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2030021
	mg/kg	mg/kg				
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	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2031008
	mg/kg	mg/kg				
Chloride	ND	20.0	1	07/27/20	07/28/20	

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**C22**  
**P007061-22 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2030024
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2030024
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2030021
	mg/kg	mg/kg				
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	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2031008
	mg/kg	mg/kg				
Chloride	ND	20.0	1	07/27/20	07/28/20	

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**C23**  
**P007061-23 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2030024
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2030024
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2030021
	mg/kg	mg/kg				
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	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2031008
	mg/kg	mg/kg				
Chloride	ND	20.0	1	07/27/20	07/28/20	

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**C24**  
**P007061-24 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	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	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg				Batch: 2031008
Chloride	ND	20.0	1	07/27/20	07/28/20	

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### 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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### 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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### 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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### Nonhalogenated Organics by EPA 8015D - GRO - Quality Control

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	REC %	REC Limits %	RPD %	RPD Limit %	Notes
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#### 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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**Nonhalogenated Organics by EPA 8015D - DRO/ORO - Quality Control**

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	REC % %	REC Limits %	RPD % %	RPD Limit %	Notes
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**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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### Nonhalogenated Organics by EPA 8015D - DRO/ORO - Quality Control

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	REC %	REC Limits %	RPD %	RPD Limit %	Notes
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#### 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: <i>n</i> -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: <i>n</i> -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: <i>n</i> -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: <i>n</i> -Nonane	62.2		50.0		124	50-200			

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**Anions by EPA 300.0/9056A - Quality Control**

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	REC % %	REC Limits %	RPD % %	RPD Limit %	Notes
<b>Blank (2030029-BLK1)</b>									
Chloride	ND	20.0							Prepared & Analyzed: 07/24/20 1
<b>LCS (2030029-BS1)</b>									
Chloride	250	20.0	250		100	90-110			Prepared & Analyzed: 07/24/20 1
<b>Matrix Spike (2030029-MS1)</b>									
Chloride	281	20.0	250	30.7	100	80-120			Source: P007061-01 Prepared & Analyzed: 07/24/20 1
<b>Matrix Spike Dup (2030029-MSD1)</b>									
Chloride	282	20.0	250	30.7	101	80-120	0.472	20	Source: P007061-01 Prepared & Analyzed: 07/24/20 1

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**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			
----------	-----	------	-----	------	-----	--------	--	--	--

**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	
----------	-----	------	-----	------	------	--------	------	----	--

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	
PO Box 1058	Project Number:	19054-0003	<b>Reported:</b>
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	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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Client: <u>Grand BANKS</u> Project: <u>Rancho Verde</u> Project Manager: <u>Daniel Dominguez</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: <u>pms@hungry-horse.com</u> Report due by: _____	<b>Bill To</b>		<b>Lab Use Only</b>				<b>TAT</b>		<b>EPA Program</b>							
	Attention: _____		Lab WO# <u>P007061</u>		Job Number <u>19054003</u>		1D	3D	RCRA	CWA	SDWA					
	Address: _____		City, State, Zip: _____		<b>Analysis and Method</b>				<b>State</b>							
	Phone: _____		Email: _____		DRO/DRO 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
													TX	OK		

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	BGDOC - TX	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 Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N  T1 _____ T2 _____ T3 _____  AVG Temp °C <u>4</u>
	7/22/20	1035		7-22-2020	1035	
	7-22-2020	1640		7/23/20	9:50	

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.

Received by QCP: 10/26/2020 2:44:58 PM

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Client: <u>Grand Banks</u> Project: <u>Rancho Verde</u> Project Manager: <u>Daniel Dominguez</u> Address: _____ City, State, Zip _____ Phone: _____ Email: <u>pm@hungry-horse.com</u> Report due by: _____	<b>Bill To</b> Attention: _____ Address: _____ City, State, Zip _____ Phone: _____ Email: _____	<b>Lab Use Only</b> Lab WO# <u>P007061</u> Job Number <u>190540003</u>	<b>TAT</b> 1D <input type="checkbox"/> 3D <input type="checkbox"/>	<b>EPA Program</b> RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> State NM <input type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/> OK <input type="checkbox"/>
---	--	--	---	---

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8250	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 Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>7-22-2020</u>	Time <u>1640</u>	Received by: (Signature) <u>Raen Lopez</u>	Date <u>7/23/20</u>	Time <u>9:50</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.



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 24 Hour Emergency Response Phone: (505) 362-1879

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 labadmin@envirotech-inc.com

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Client: <u>Grand Banks</u> Project: <u>Rancho Verde</u> Project Manager: <u>Daniel Dominguez</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: <u>pm@hungry-horse.com</u> Report due by: _____		Bill To Attention: _____ Address: _____ City, State, Zip: _____ Phone: _____ Email: _____		Lab Use Only Lab WO# <u>P 027061</u> Job Number <u>19054-000</u>				TAT 1D <input type="checkbox"/> 3D <input type="checkbox"/>		EPA Program RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/>							
						Analysis and Method				State							
						DRO/DRO 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
										Remarks							

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	BGDOC - TX					
	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 <u>7/22/20</u>	Time <u>1035</u>	Received by: (Signature) _____	Date <u>7-22-2020</u>	Time <u>1035</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) _____	Date <u>7-22-2020</u>	Time <u>1640</u>	Received by: (Signature) _____	Date <u>7/23/20</u>	Time <u>9:50</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.

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## 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:

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.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.  
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	<b>Reported:</b> 08/19/20 16:27
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### 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 PO box 1058 Hobbs NM, 88240	Project Name: Grand Banks Project Number: 19054-0003 Project Manager: Daniel Dominguez	Reported: 08/19/20 16:27
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**C1b**  
**P008033-01 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2033034
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2033034
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2033036
	mg/kg	mg/kg				
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	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2033041
	mg/kg	mg/kg				
Chloride	218	20.0	1	08/14/20	08/15/20	

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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
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**C2b**  
**P008033-02 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2033034
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2033034
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2033036
	mg/kg	mg/kg				
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	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2033041
	mg/kg	mg/kg				
Chloride	264	20.0	1	08/14/20	08/15/20	

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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
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**C3b**  
**P008033-03 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2033034
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2033034
	mg/kg	mg/kg				
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	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2033036
	mg/kg	mg/kg				
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	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2033041
	mg/kg	mg/kg				
Chloride	279	20.0	1	08/14/20	08/15/20	

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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
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### 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 PO box 1058 Hobbs NM, 88240	Project Name: Grand Banks Project Number: 19054-0003 Project Manager: Daniel Dominguez	Reported: 08/19/20 16:27
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### Nonhalogenated Organics by EPA 8015D - GRO - Quality Control

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	REC %	REC Limits %	RPD %	RPD Limit %	Notes
<b>Blank (2033034-BLK1)</b>									
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			
<b>LCS (2033034-BS2)</b>									
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			
<b>Matrix Spike (2033034-MS2)</b>									
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			
<b>Matrix Spike Dup (2033034-MSD2)</b>									
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 PO box 1058 Hobbs NM, 88240	Project Name: Grand Banks Project Number: 19054-0003 Project Manager: Daniel Dominguez	Reported: 08/19/20 16:27
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### Nonhalogenated Organics by EPA 8015D - DRO/ORO - Quality Control

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	REC % %	REC Limits %	RPD % %	RPD Limit %	Notes
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#### 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: <i>n</i> -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: <i>n</i> -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: <i>n</i> -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: <i>n</i> -Nonane	53.4		50.0		107	50-200			

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Cambrien PO box 1058 Hobbs NM, 88240	Project Name: Grand Banks Project Number: 19054-0003 Project Manager: Daniel Dominguez	<b>Reported:</b> 08/19/20 16:27
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**Anions by EPA 300.0/9056A - Quality Control**

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	REC % %	REC Limits %	RPD % %	RPD Limit %	Notes
<b>Blank (2033041-BLK1)</b>					Prepared: 08/14/20 1 Analyzed: 08/15/20 0				
Chloride	ND	20.0							
<b>LCS (2033041-BS1)</b>					Prepared: 08/14/20 1 Analyzed: 08/15/20 0				
Chloride	275	20.0	250		110	90-110			
<b>Matrix Spike (2033041-MS1)</b>					<b>Source: P008024-01</b> Prepared: 08/14/20 1 Analyzed: 08/15/20 0				
Chloride	444	20.0	250	211	93.1	80-120			
<b>Matrix Spike Dup (2033041-MSD1)</b>					<b>Source: P008024-01</b> 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	Project Name:	Grand Banks	
PO box 1058	Project Number:	19054-0003	<b>Reported:</b>
Hobbs NM, 88240	Project Manager:	Daniel Dominguez	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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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 _____										
City, State, Zip _____		Phone: _____										
Phone: <u>pm@shillany-labs.com</u>		Email: _____										
Email: <u>pm@shillany-labs.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>8/3/20</u>	<u>S</u>	<u>1</u>	<u>C1b</u>	<u>1</u>									
	<u>8/3/20</u>	<u>S</u>	<u>1</u>	<u>C2b</u>	<u>2</u>									
	<u>8/3/20</u>	<u>S</u>	<u>1</u>	<u>C3b</u>	<u>3</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) _____	Date <u>8/12/20</u>	Time <u>1525</u>	Received by: (Signature) _____	Date <u>8-12-2020</u>	Time <u>1525</u>	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> 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.

Received by OCD: 10/26/2020 2:44:58 PM Page 11 of 11 Page 1 Page 253 of 258

**Attachment V**  
**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?	>51' (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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.

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: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**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: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

- Approved       Approved with Attached Conditions of Approval       Denied       Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	NRM2017435952
District RP	
Facility ID	
Application ID	

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: Cristina Eads Date: 10/26/2020

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: DENIED Date: 01/20/2021

Printed Name: Cristina Eads Title: Environmental Specialist

**Denied for the following reasons:**

Per 19.15.29.13 D. NMAC, "The responsible party shall reclaim all areas disturbed by the remediation and closure, except areas reasonably needed for production operations or for subsequent drilling operations..."

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..."

The C-141 form was not completed.