

Form C-141

State of New Mexico

Page 6

Oil Conservation Division

Incident ID	nJXK1613933289
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: Dennis PenderTitle: EnvironmentalSignature: Dennis PenderDate: 11-2-2022email: dpender@gwdc.comTelephone: 432-682-5241 x 141

### OCD Only

Received by: OCDDate: 11/1/2022

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: Ashley MaxwellDate: 2/20/2023Printed Name: Ashley MaxwellTitle: Environmental Specialist



## Remediation Summary and Closure Request

**Great Western Drilling Co.**

**South Carter SA Unit #501**

**Lea County, New Mexico**

**Unit Letter "A", Section 7, Township 18 South, Range 39 East**

**Latitude 32.768517 North, Longitude 103.076456 West**

**NMOCD Incident # nJXK1613933289**

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Prepared For:

Great Western Drilling Co.

PO Box 1659

Midland, TX 79701

Prepared By:

Hungry Horse, LLC

4024 Plains Hwy

Lovington, NM 88260

Office: (575) 393-3386

**October 2022**

*Bradley Wells*

Bradley Wells

Project Manager

bwells@hungry-horse.com

*Daniel Dominguez*

Daniel Dominguez

Environmental Manager

ddominguez@hungry-horse.com

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- Attachment V – NMOCD Form C-141 Closure Page



## HUNGRY HORSE, LLC

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

### Background:

The site is located in Unit Letter A (NE/NE), Section 7, Township 18 South, Range 39 East, approximately 4.5 miles northeast of Hobbs, in Lea County, New Mexico. The property is privately owned. Topographic Map, OSE POD Locations Map, and USGS Well Locations Map are included as Figure 1, Figure 2, and Figure 3, respectively.

The historic release occurred east of an active well pad; Latitude 32.768517 North, Longitude 103.076546 West. The Initial NMOCD Form C-141 indicated that at Location of Interest Five, identified as South Carter SA Unit #501, a release occurred on an unknown date, with an unknown amount of fluid released, due to an unknown cause. Great Western Drilling Co. investigated the area and submitted the Initial C-141 at the request of the NMOCD. Previously submitted pages of the NMOCD Form C-141 are available on the NMOCD Imaging System. NMOCD Form C-141 Closure page is included as Attachment V.

### NMOCD Site Classification:

A search of the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) groundwater databases was completed in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Approximate depth to groundwater was determined using maintained and published water well data. Karst mapping indicates the site is not located in a Karst designated area. Depth to groundwater information is provided as Attachment II and the results are depicted on Figures 2 & 3.

Eighteen water wells were located within a half mile of the release area; however, only five of the wells have groundwater data less than twenty-five years old. Therefore, only these five wells, L 04571 S3, L 00873 POD4, L 00873 POD5, L 00873 POD6, and L 10528 POD2, were utilized to determine depth to groundwater. However, as this location of interest is historical, the site was delineated according to the strictest NMOCD Closure Criteria. Utilizing this information, the NMOCD Closure Criteria for the site were determined as follows:

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





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### **Delineation and Remediation Activities:**

On April 19, 2022, Hungry Horse conducted an initial site assessment, consisting of mapping and photographing the location of interest. On May 3, 2022, Hungry Horse personnel collected composite surface samples from within the location of interest area. These sample locations are identified by SP designation. The soil samples were collected and field screened for the presence of chloride concentrations utilizing a Hach Quantab® chloride test kit.

Based on field observations and field test data, two representative composite soil samples were selected for laboratory analysis. Surface soil samples SP1 and SP2 were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples.

On September 29, 2022, Hungry Horse and Great Western met with NMOCD, via Teams, to discuss this location of interest regarding options to advance the site toward approved closure. NMOCD requested further sampling consisting of soil samples collected at the surface, and one through four feet bgs, from six sample locations, SP1, SP2, SP3, SP4, SP5, and SP6.

On October 4, 2022, Hungry Horse personnel arrived onsite to conduct requested sampling of the location. Thirty representative soil samples, five from each sample location, were collected, field screened for chlorides via an EC meter, then submitted for laboratory analysis. Soil samples collected from the surface through three feet bgs were submitted to the laboratory for analysis of chloride. Soil samples collected at four feet bgs were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples.

On October 24, 2022, in an effort to more fully delineate the area, Hungry Horse personnel returned to the location to collect additional samples from sample locations characterized with only surface delineation samples. Soil samples were collected from sample locations SP2, SP3, SP4, SP5, SP8, and SP9, at two and four feet bgs, 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 Map is provided as Figure 4. 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.

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

Based upon laboratory analytical results from confirmation soil samples, excavation activities are not required at this location of interest. The area will be seeded with an approved seed



mixture during the first favorable growing season following these completed remediation activities.

**Closure Request:**

Remediation activities were conducted in accordance with applicable NMOCD Regulations. Laboratory analytical results from confirmation samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria.

Based on laboratory analytical results, Great Western Drilling Co. respectfully requests closure of the South Carter Unit #501 location, nJXK1613933289.

**Limitations:**

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



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**Distribution:**

**Great Western Drilling Co**

PO Box 1659

Midland, TX 79701

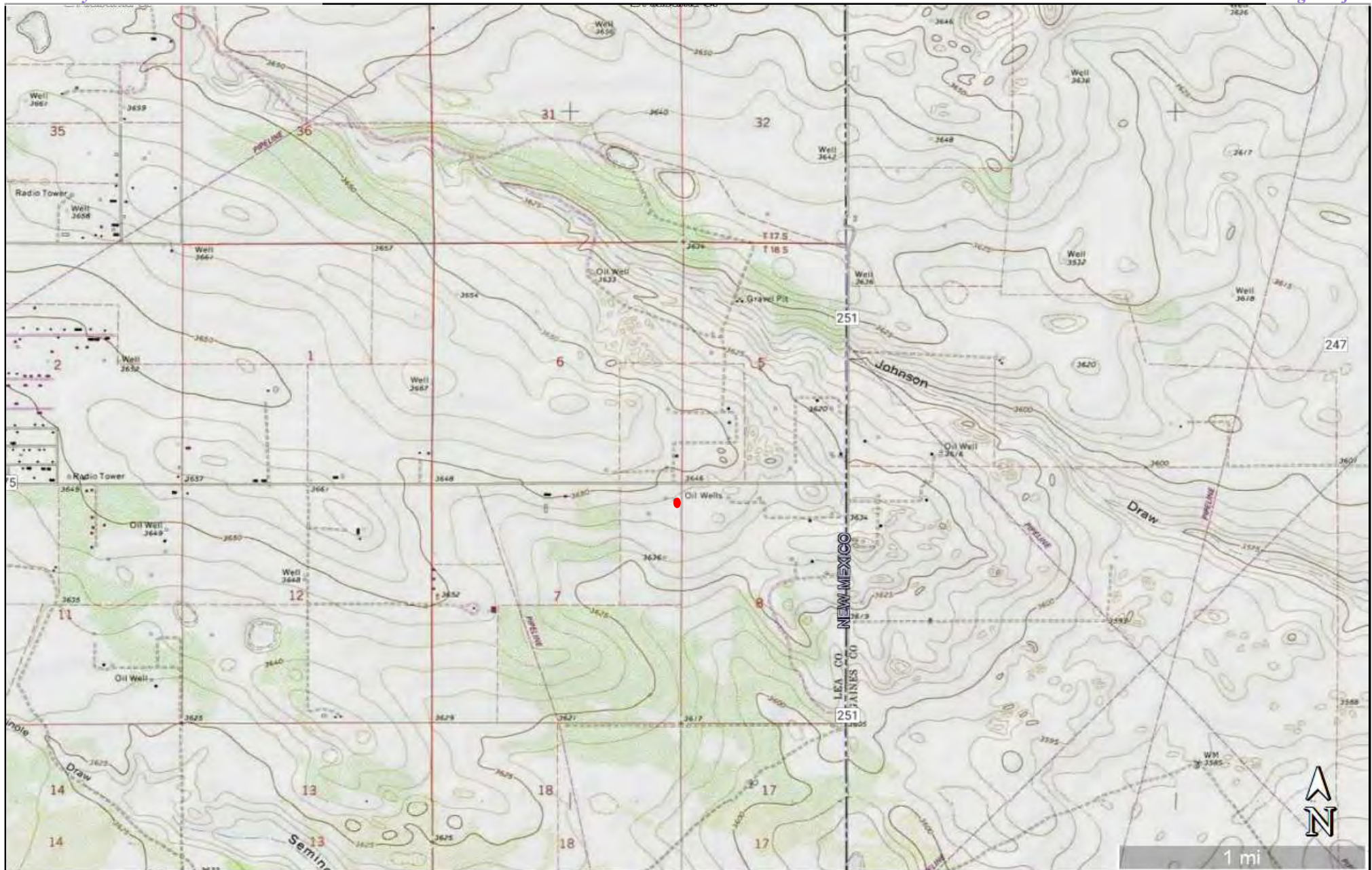
**New Mexico Energy, Minerals and Natural Resources Department**

Oil Conservation Division, District 1

1625 N. French Drive

Hobbs, NM 88240

## Figures

**Figure 1**

Topographic Map  
 Great Western Drilling  
 South Carter SA Unit #501  
 GPS: 32.768517, -103.076546  
 Lea County

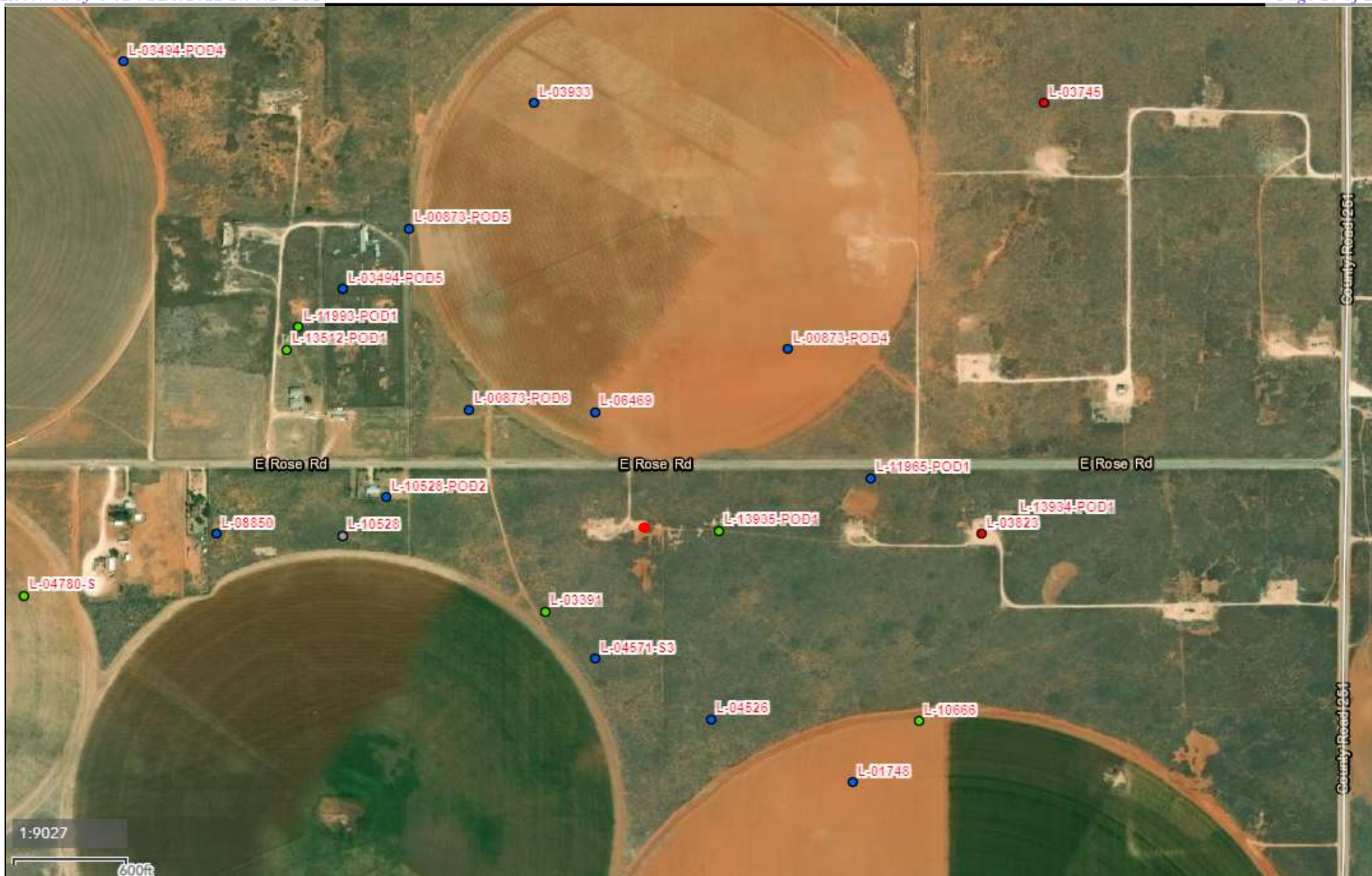
**Legend:**

- South Carter SA Unit #501 Location

Drafted: dd  
 Checked: bw  
 Date: 5/4/22





**Figure 2**

OSE POD Locations Map  
 Great Western Drilling  
 South Carter SA Unit #501  
 GPS: 32.768517, -103.076546  
 Lea County

**Legend:**

- South Carter SA Unit #501 Location
- Active OSE Water Well
- Plugged OSE Water Well
- Pending OSE Water Well
- Incomplete OSE Water Well



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 Date: 5/4/22



**Figure 3**

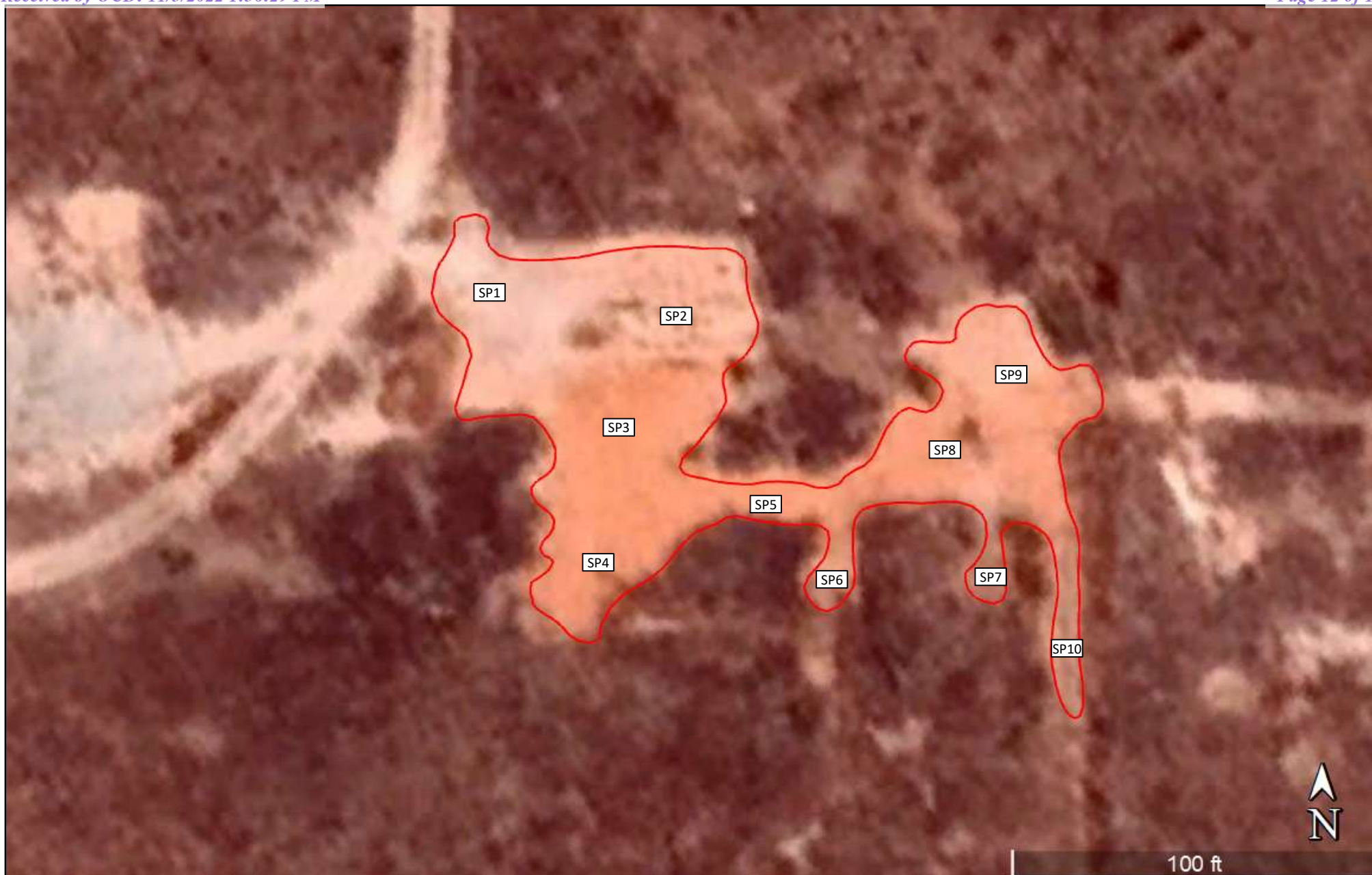
USGS Well Locations Map  
Great Western Drilling  
South Carter SA Unit #501  
GPS: 32.768517, -103.076546  
Lea County

**Legend:**

- South Carter SA Unit #501 Location
- USGS Well Location

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Date: 5/4/22



**Figure 4**

Delineation Sample Map  
Great Western Drilling  
South Carter SA Unit #501  
GPS: 32.768517, -103.076546  
Lea County

**Legend:**

- Release Area  
 SP1 Delineation Sample Location

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Checked: bw  
Date: 8/22/22







**Figure 5**

Excavation Sample Map  
Great Western Drilling  
South Carter SA Unit #501  
GPS: 32.768517, -103.076546  
Lea County

**Legend:**

-  Excavated Areas  
 Composite Confirmation Sample Location

Drafted: dd  
Checked: bw  
Date: 10/4/22



## **Table**



**TABLE 1**  
**Summary of Soil Sample Laboratory Analytical Results**  
**Great Western Drilling**  
**South Carter SA Unit #501**  
**NMOCD Ref. #: nJXK1613933289**

Sample ID	Date	Depth (ft)	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	5/3/22	Surf	Excavated	<0.050	<0.300	<10.0	54	54	91	<b>146</b>	32.0
SP1- 3'	8/22/22	3	Excavated	<0.050	<0.300	<10.0	473	473	309	<b>782</b>	48.0
SP1	9/26/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SP2	5/3/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	10/24/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
	10/24/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SP3	5/3/22	Surf	In-Situ	<0.050	<0.300	<10.0	10.5	10.5	20.6	31.1	<16.0
	10/24/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
	10/24/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SP4	5/3/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	10/24/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	10/24/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SP5	5/3/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	10/24/22	2	In-Situ	<0.050	<0.300	<10.0	16.7	<20.0	<10.0	<30.0	<16.0
	10/24/22	4	In-Situ	<0.050	<0.300	<10.0	18.8	<20.0	<10.0	<30.0	<16.0
SP6	5/3/22	Surf	Excavated	<0.050	<0.300	<10.0	685	685	667	<b>1,352</b>	<16.0
SP6- 3'	8/22/22	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SP7	5/3/22	Surf	Excavated	<0.050	<0.300	<10.0	154	154	351	<b>505</b>	<16.0
SP7- 3'	8/22/22	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SP8	5/3/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	19.2	<30.0	<16.0
	10/24/22	2	In-Situ	<0.050	<0.300	<10.0	13.6	<20.0	<10.0	<30.0	<16.0
	10/24/22	4	In-Situ	<0.050	<0.300	<10.0	16.4	<20.0	<10.0	<30.0	<16.0
SP9	5/3/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	14.1	<30.0	32.0
	10/24/22	2	In-Situ	<0.050	<0.300	<10.0	18.9	<20.0	<10.0	<30.0	<16.0
	10/24/22	4	In-Situ	<0.050	<0.300	<10.0	25.8	25.8	<10.0	<30.0	16.0
SP10	5/3/22	Surf	Excavated	<0.050	<0.300	<10.0	217	217	213	<b>430</b>	<16.0
SP10- 3'	8/22/22	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL1	10/5/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL2	10/5/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL3	10/5/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL4	10/5/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL5	10/5/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL6	10/5/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL7	10/5/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL8	10/5/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL9	10/5/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL10	10/5/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW1	10/5/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW2	10/5/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW3	10/5/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW4	10/5/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW5	10/5/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW6	10/5/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW7	10/5/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW8	10/5/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
<b>NMOCD Closure Criteria</b>				<b>10</b>	<b>50</b>	-	-	<b>N/A</b>	-	<b>100</b>	<b>600</b>

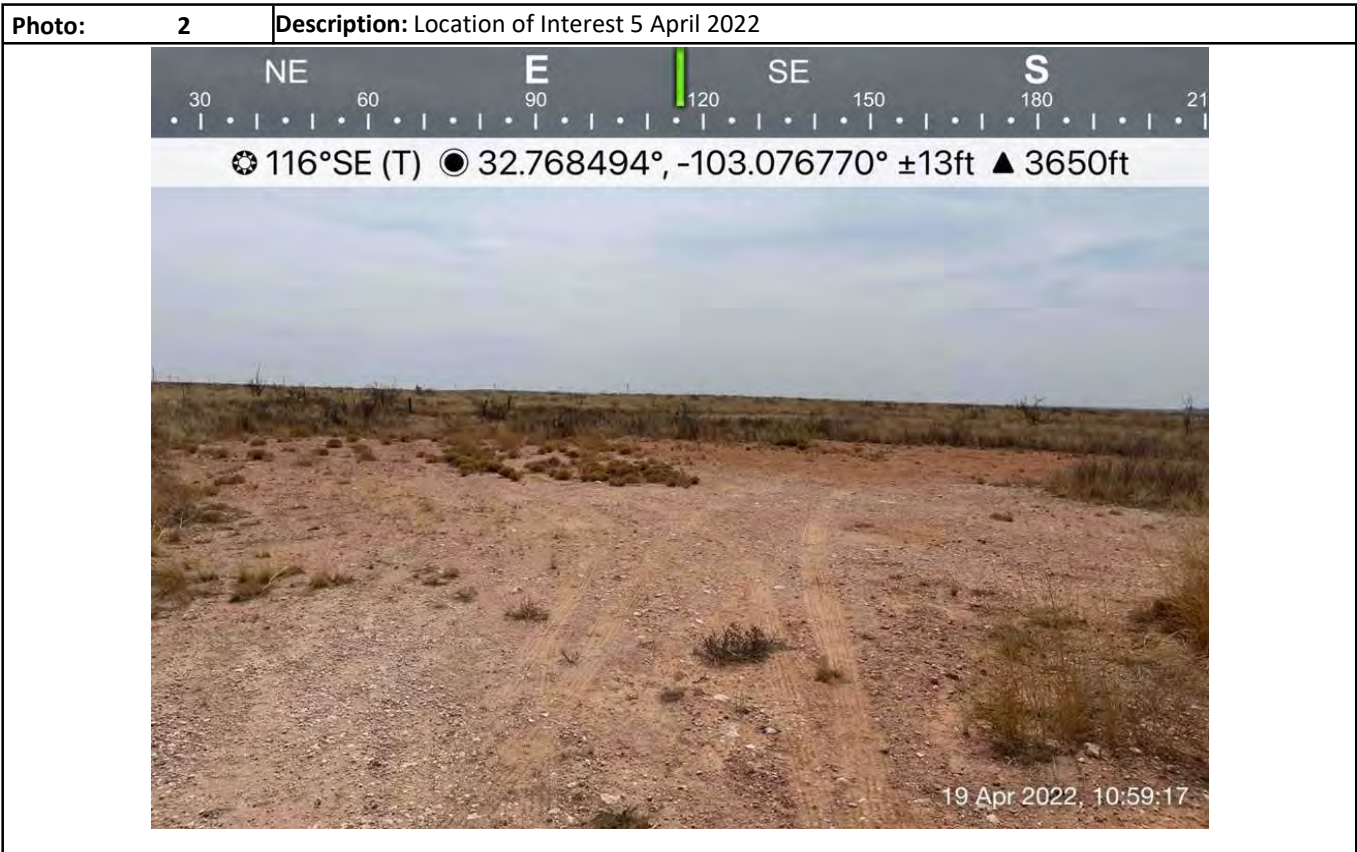
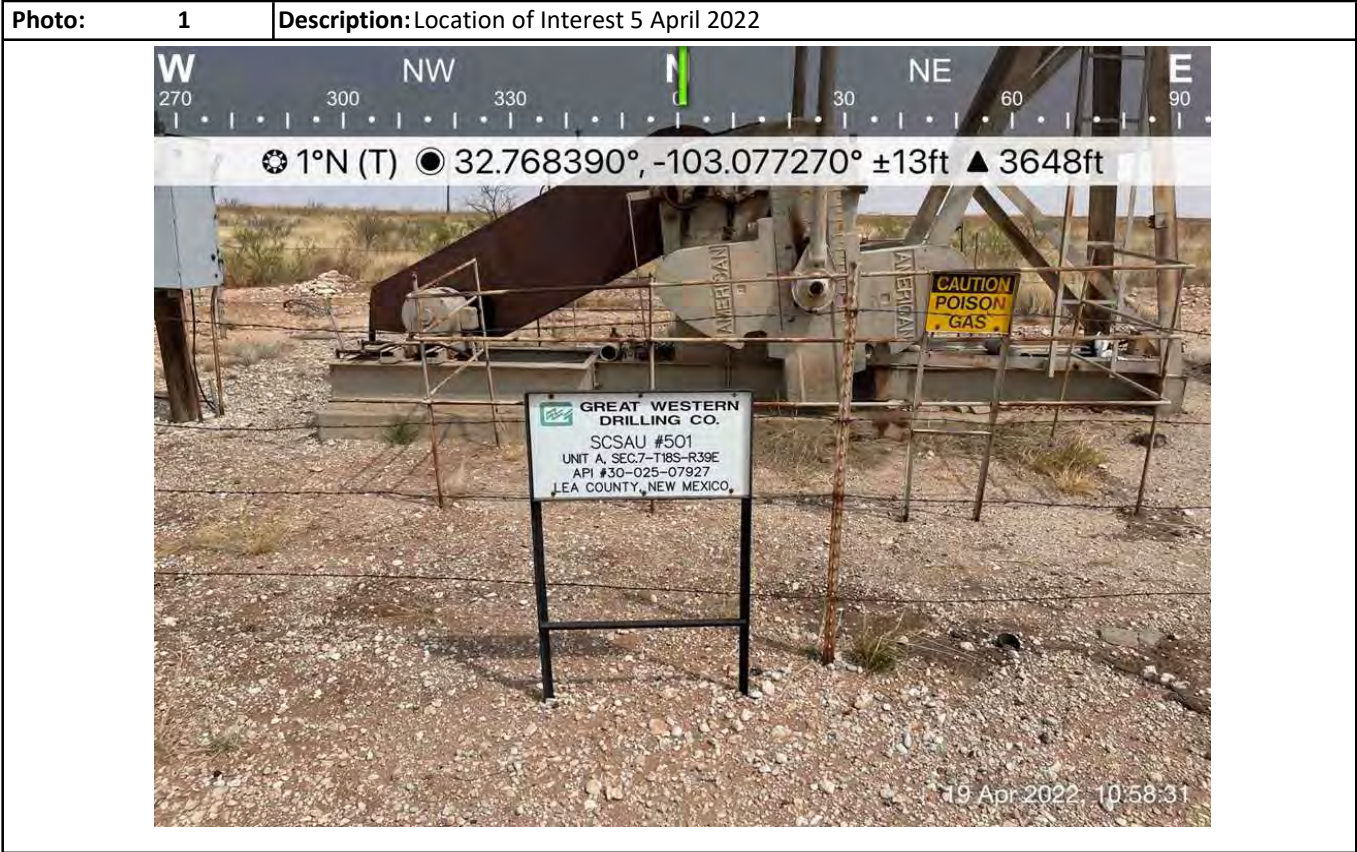
**NOTES:**

- = Sample not analyzed for that constituent.

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

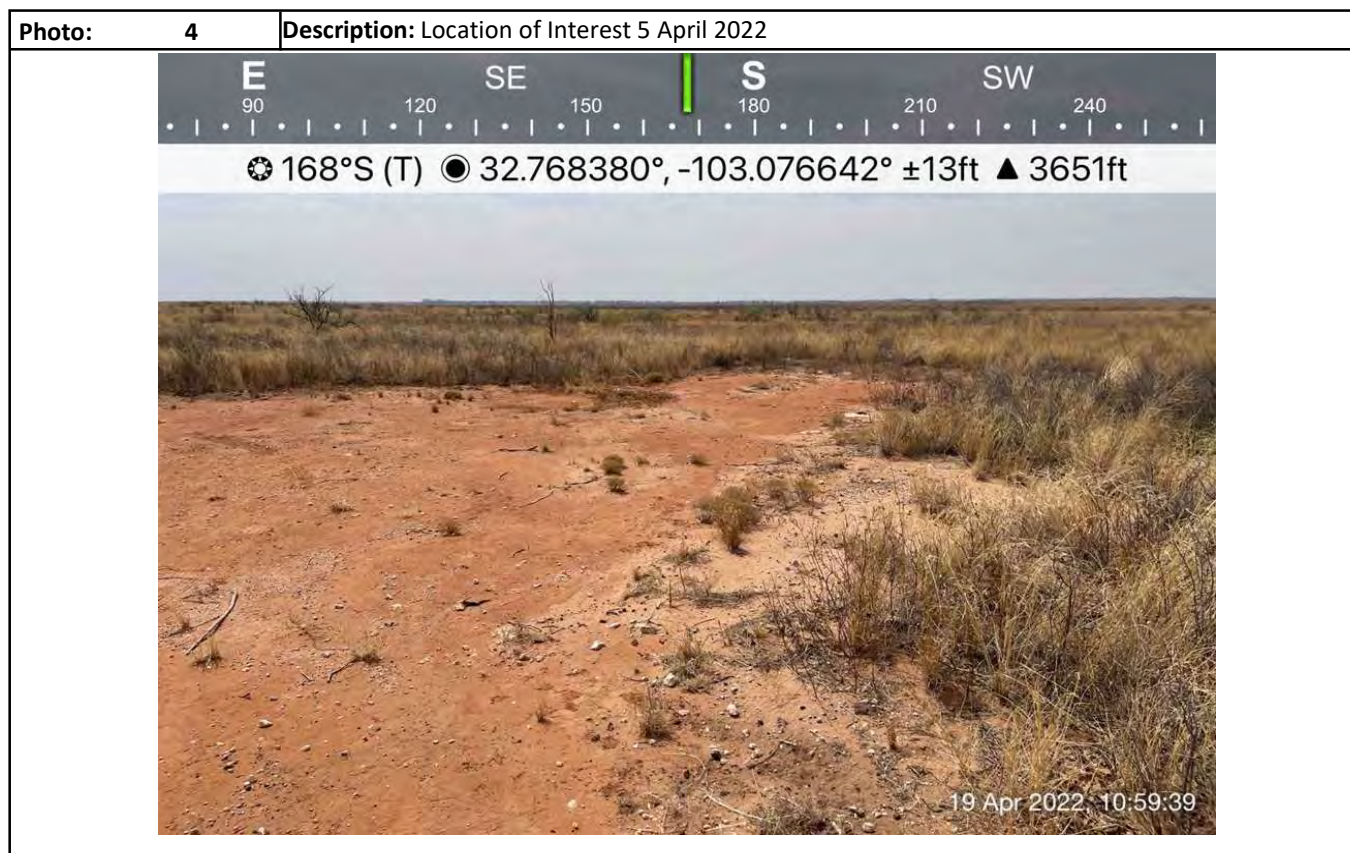
## **Attachment I Site Photographs**

# Photographs



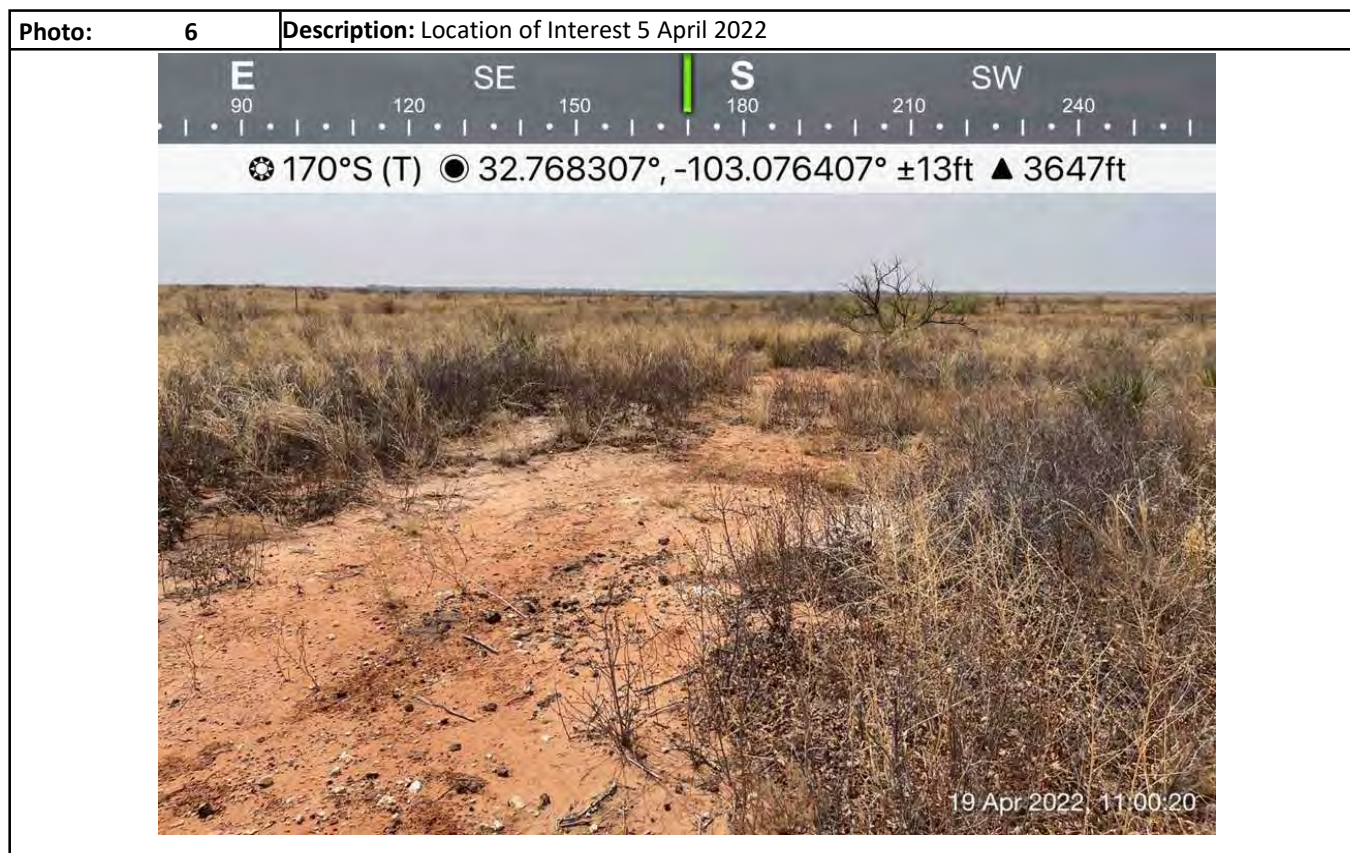
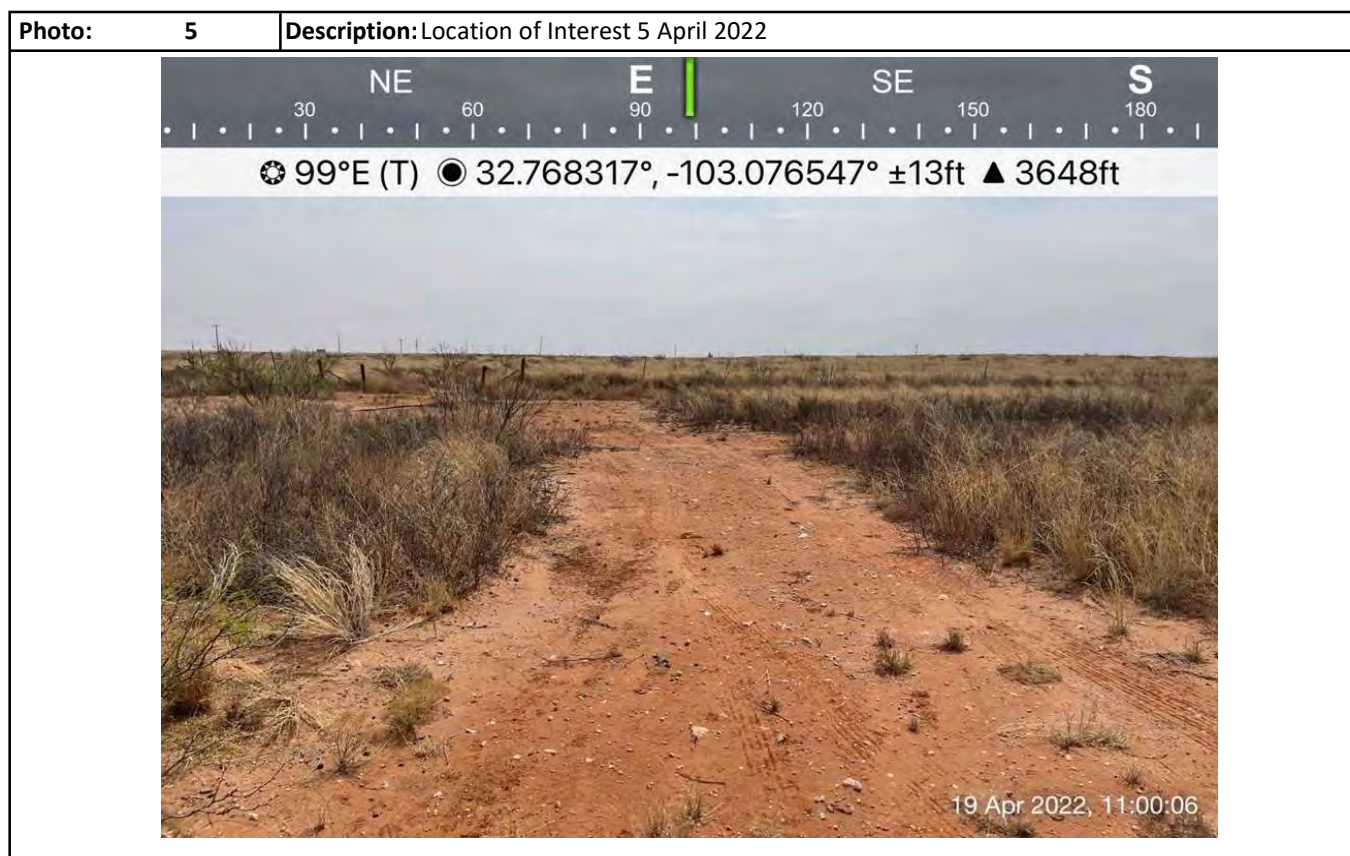


## Photographs



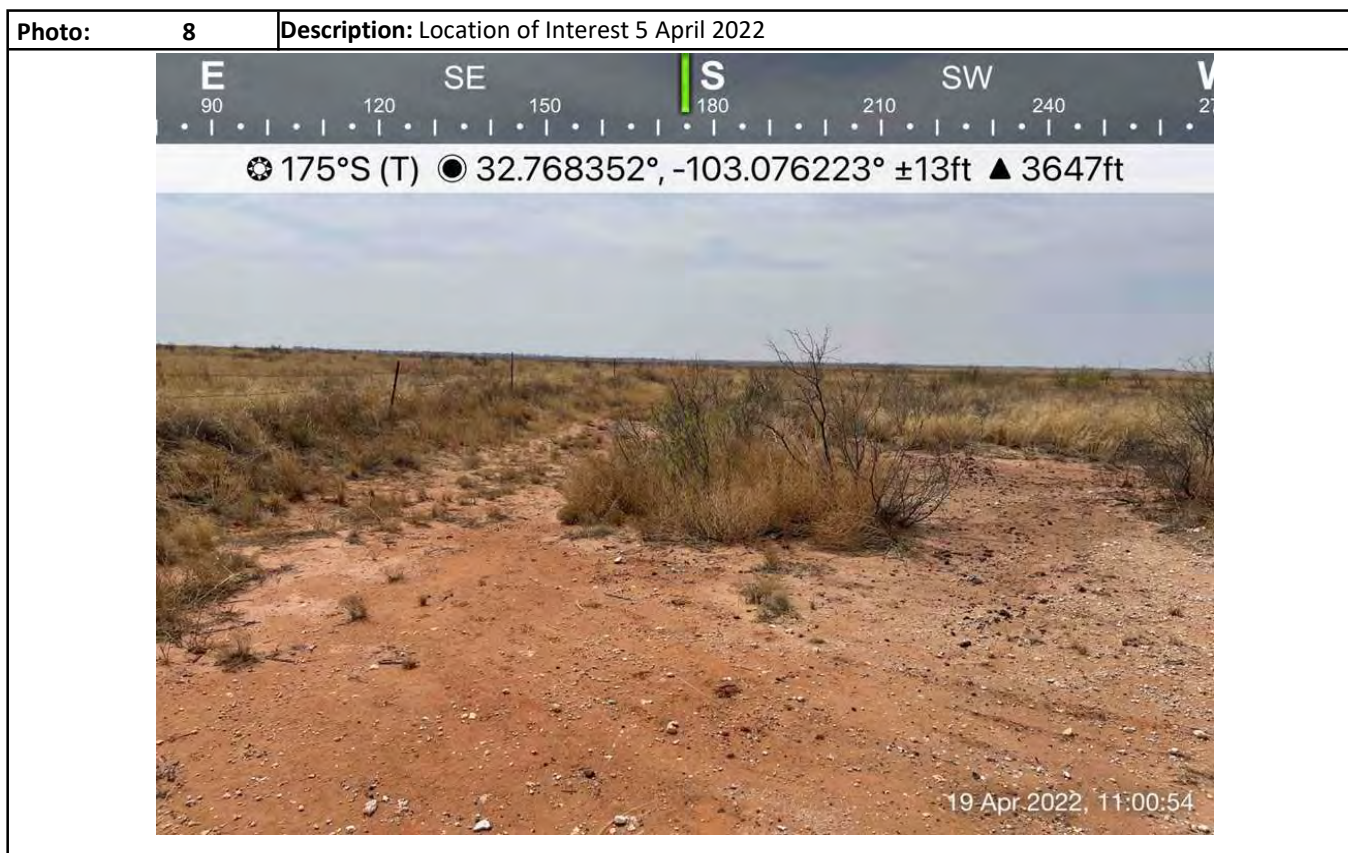
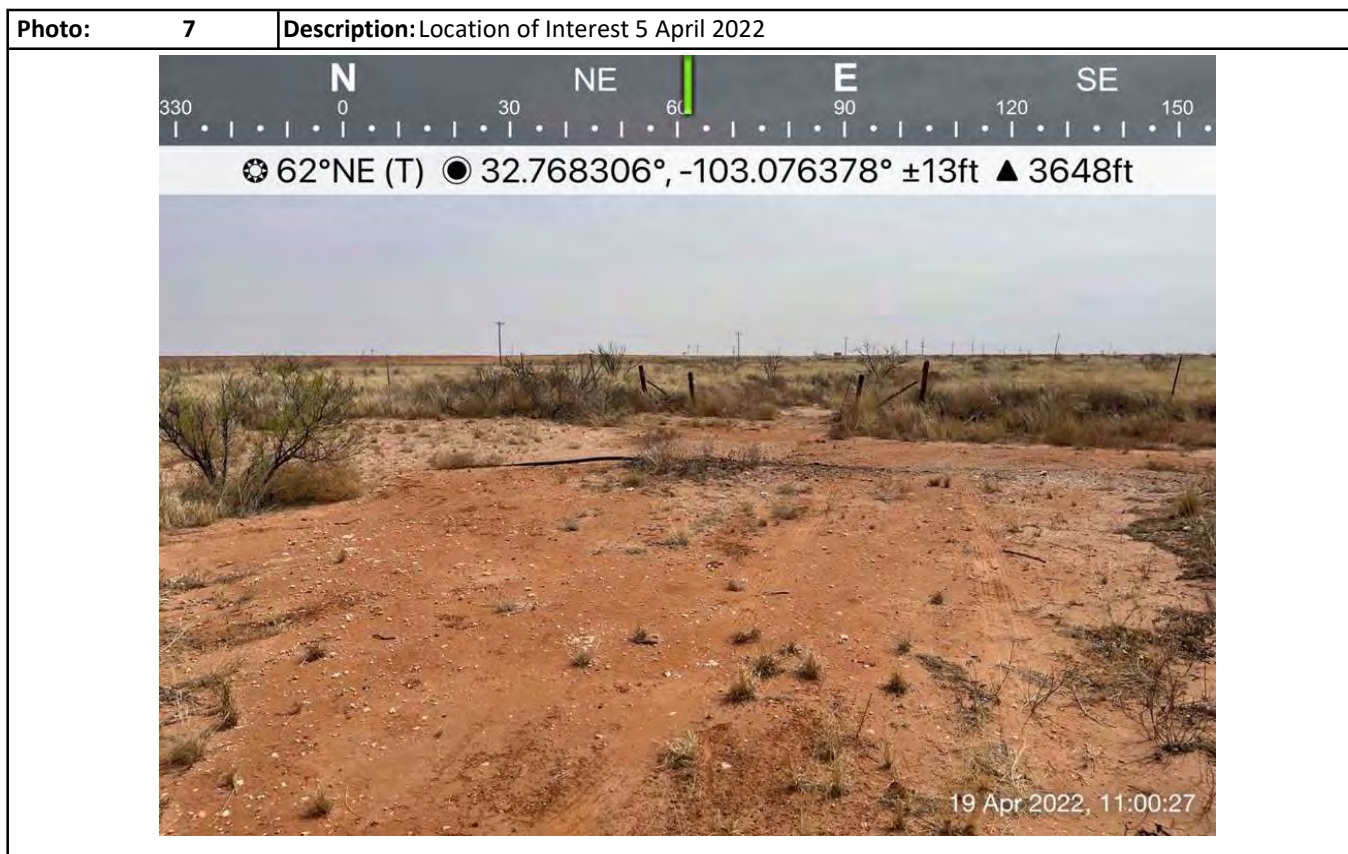


## Photographs



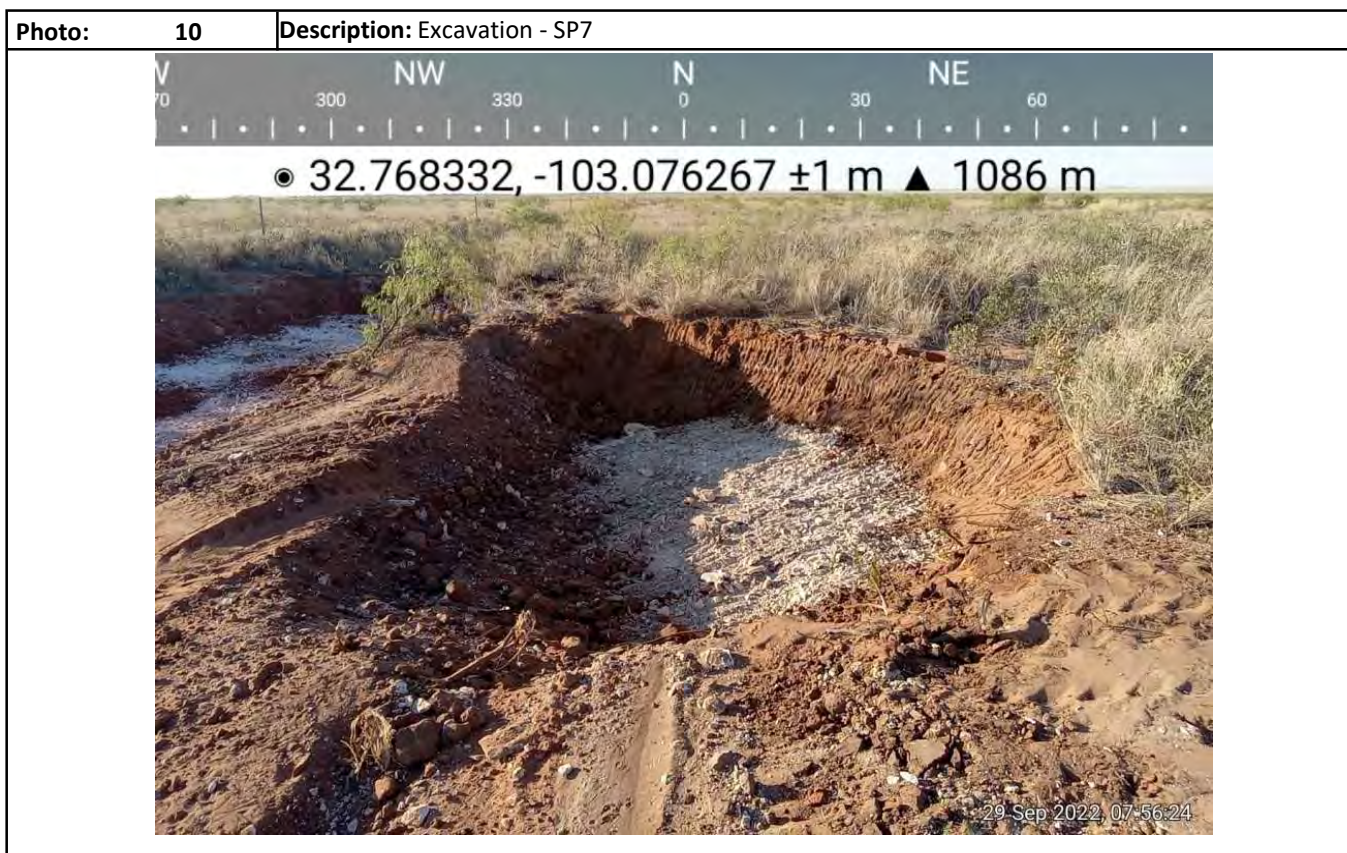
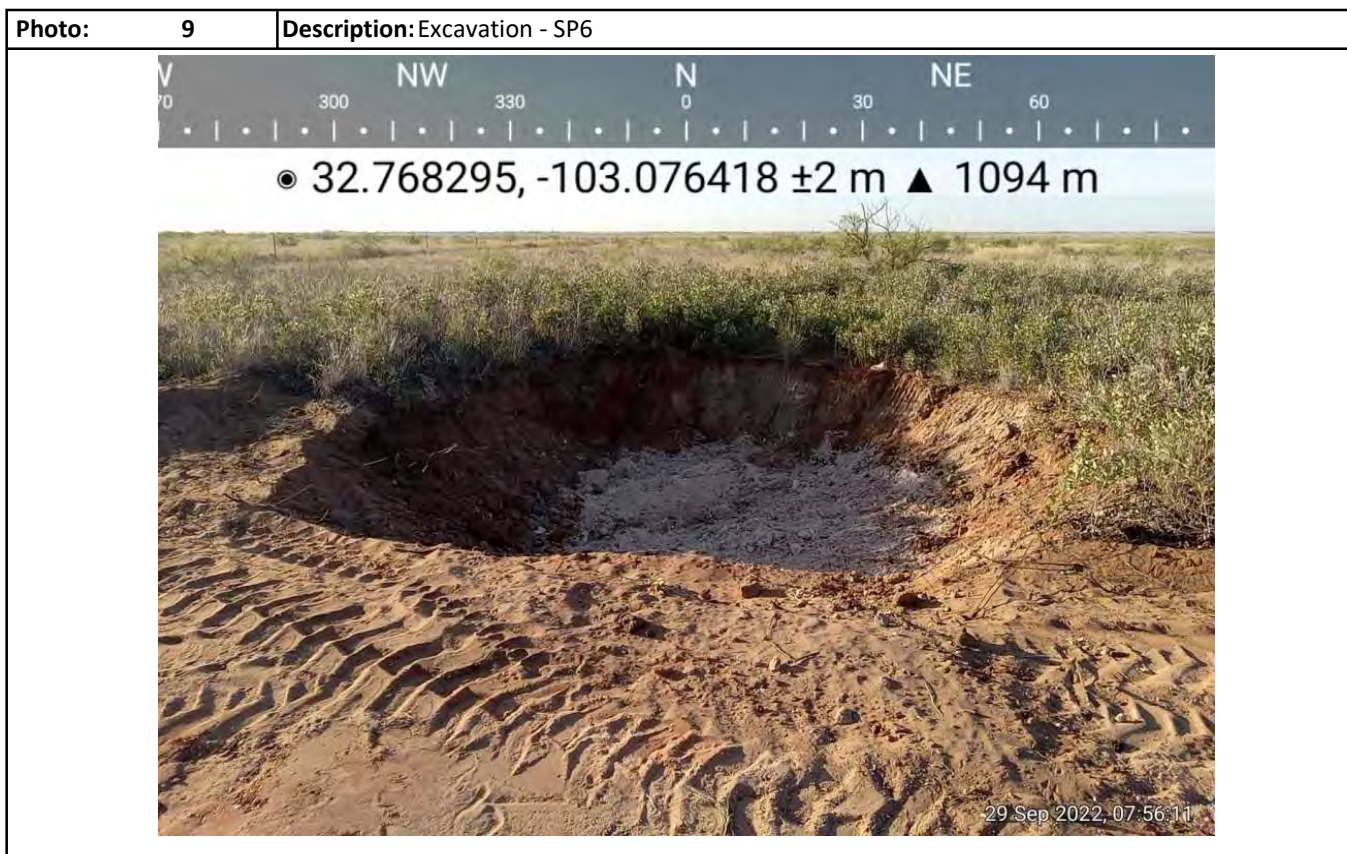


## Photographs



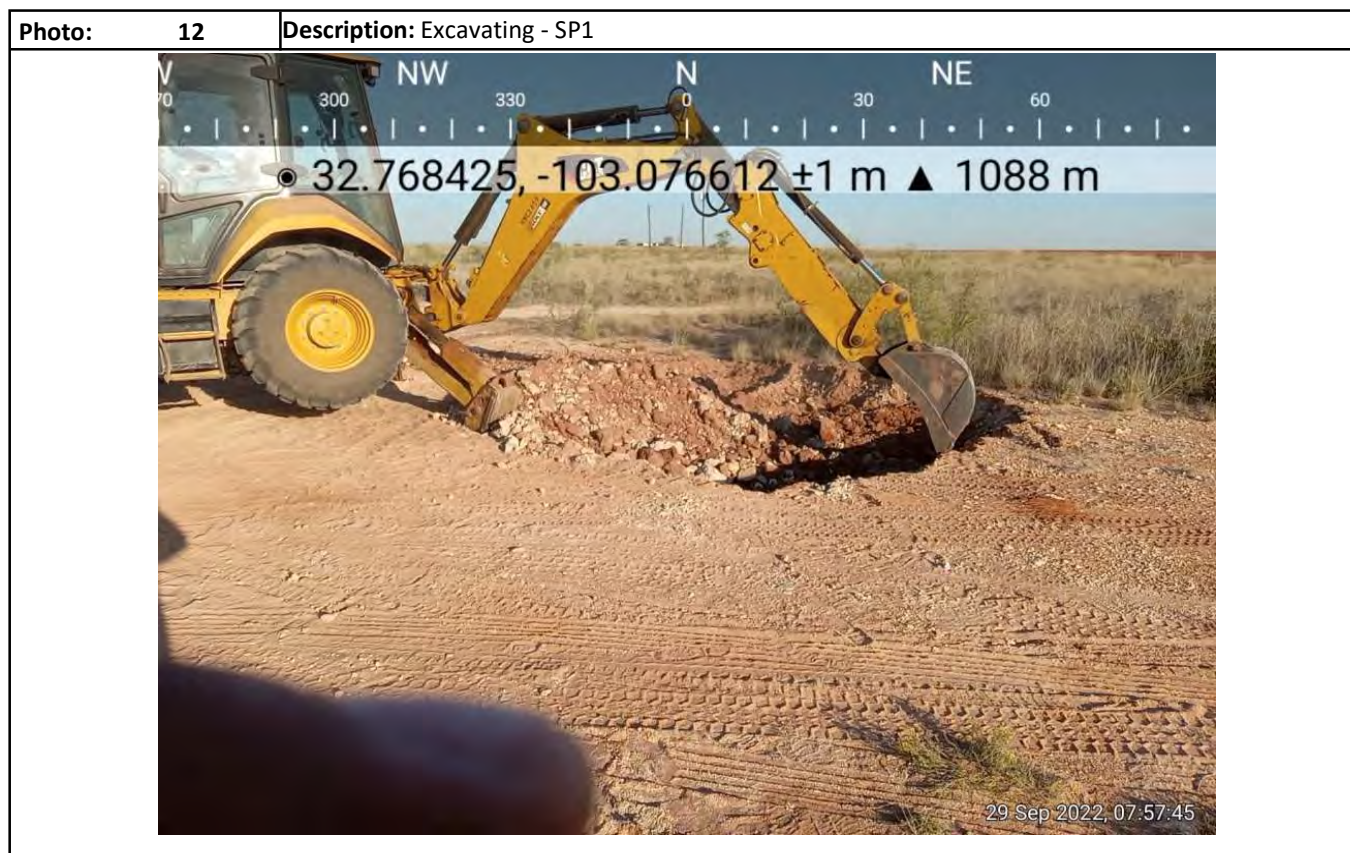
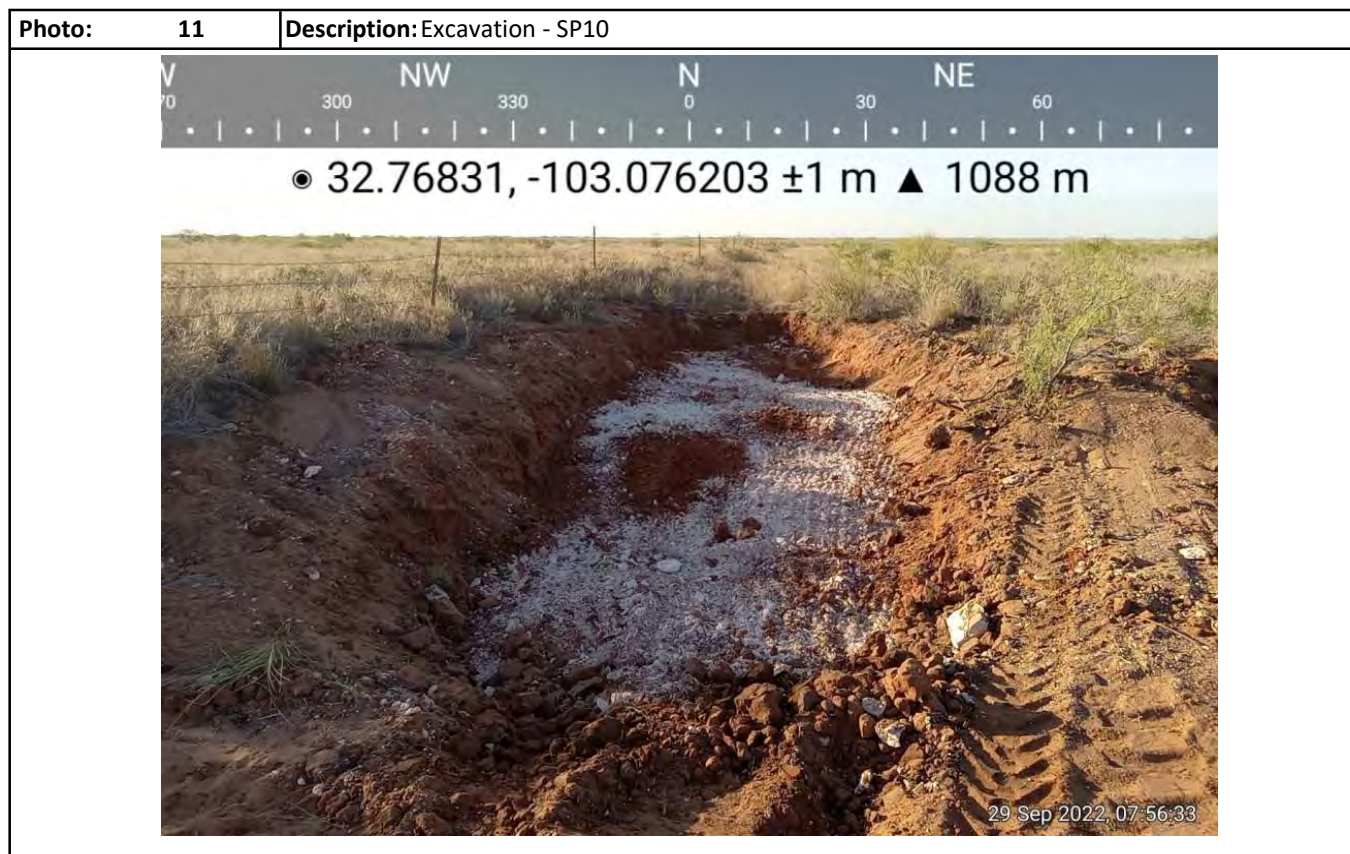


## Photographs





## Photographs



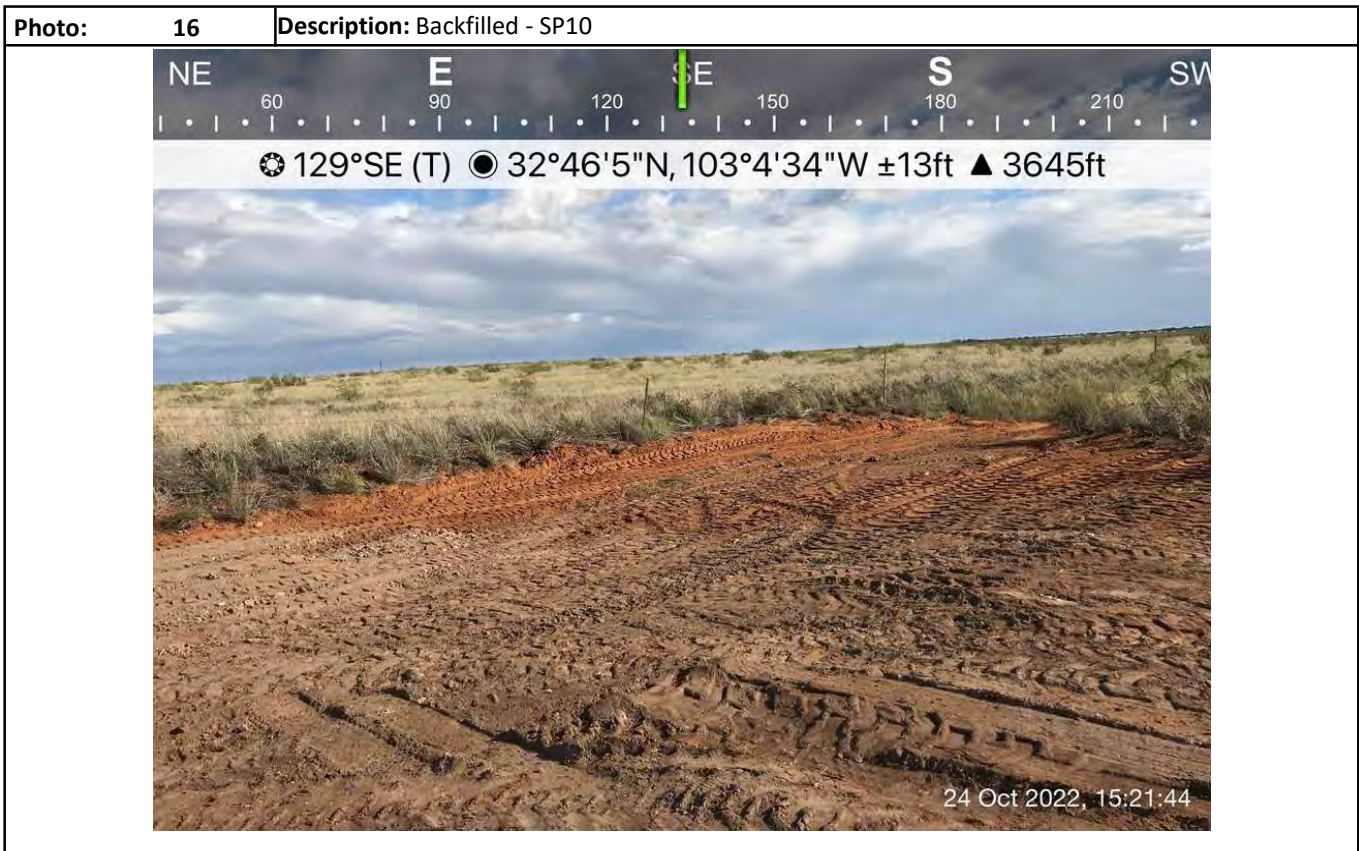


Photographs



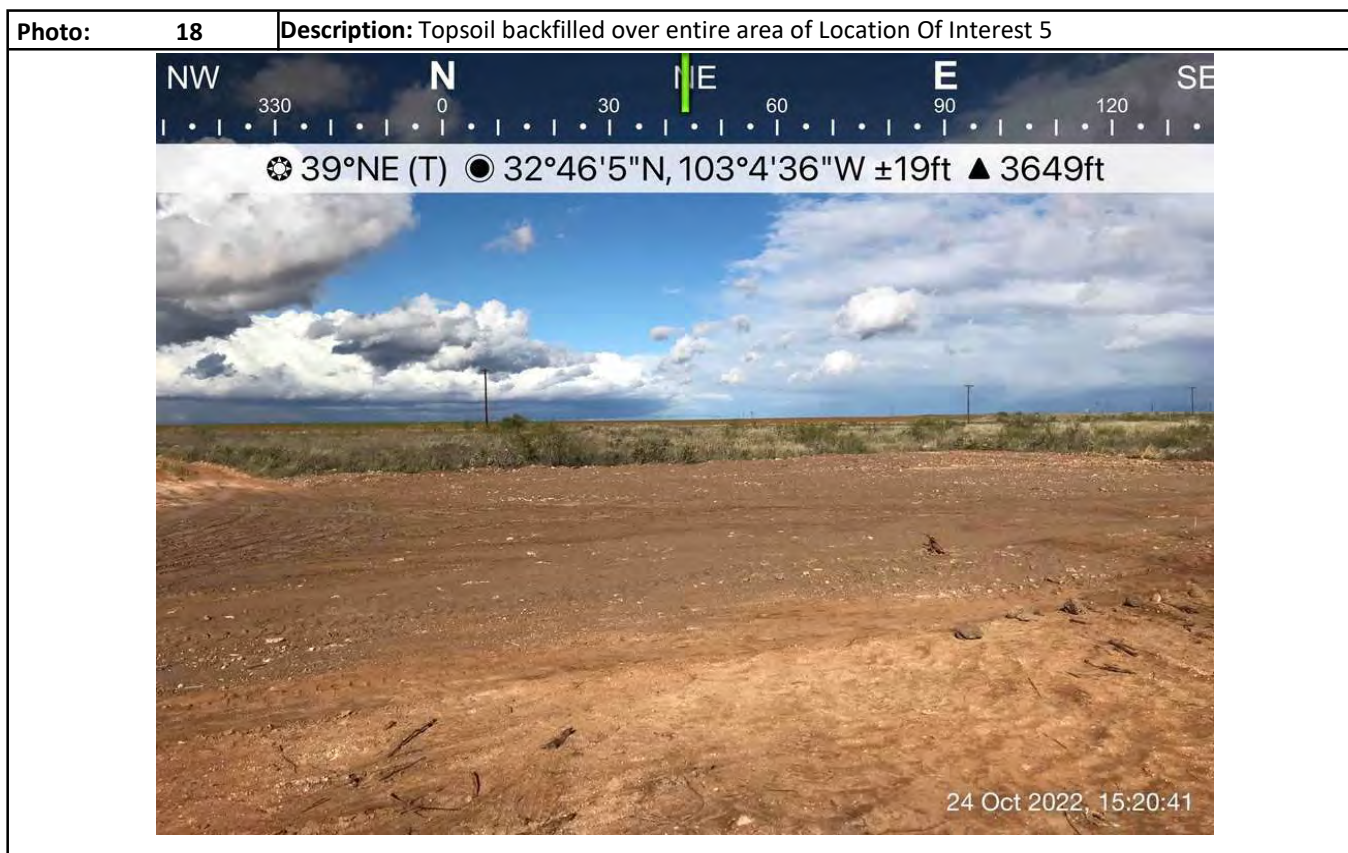
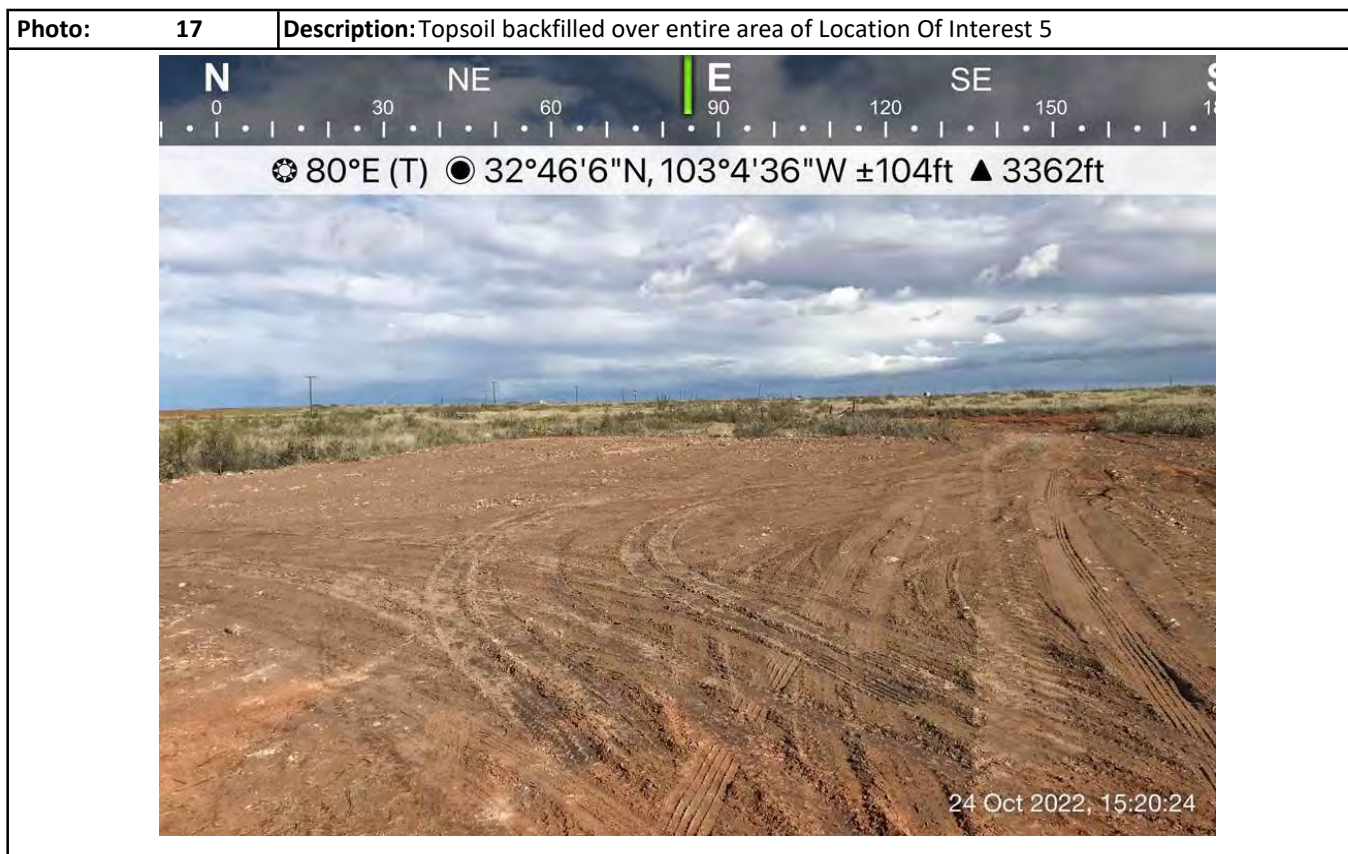


# Photographs





## Photographs



## **Attachment II**

### **Depth to Groundwater**



## New Mexico Office of the State Engineer

# Wells with Well Log Information

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

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

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

(NAD83 UTM in meters)

(in feet)

POD		q q q										Log File				Depth		Depth		Driller		License
POD Number	Code	Subbasin	County	Source	64	16	4	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Date	Well	Water		Number		
<a href="#">L_06469</a>		L	LE	Shallow	4	4	4	06	18S	39E	680088	3627438*	190	01/31/1969	02/01/1969	02/04/1969	120	85	MURRELL ABBOTT	46		
<a href="#">L_04571 S3</a>		L	LE	Shallow	4	2	2	07	18S	39E	680096	3627035*	236	08/02/2002	08/05/2002	08/09/2002	223	120		1498		
<a href="#">L_00873 POD6</a>		L	LE	Shallow	3	4	4	06	18S	39E	679888	3627438*	326	05/04/2001	05/05/2001	05/10/2001	230	115	ROBINSON, B.J. (LD)	1498		
<a href="#">L_04526</a>	R	L	LE	Shallow	1	1	3	20	18S	39E	680280	3626939	343	11/08/1960	11/10/1960	01/17/1961	100	60	J E BARTON	14		
<a href="#">L_00873 POD4</a>		L	LE	Shallow		3	3	05	18S	39E	680391	3627546*	363	02/23/2000	03/01/2000	04/20/2000	230	110	MARSH, KENNETH R.	586		
<a href="#">L_11965 POD1</a>		L	LE	Shallow		1	2	07	18S	39E	680525	3627337	369	09/27/2006	09/27/2006	10/17/2006	201		EADES, ALAN	1044		
<a href="#">L_10528 POD2</a>		L	LE	Shallow		2	1	07	18S	39E	679761	3627293	403	08/16/2020	08/17/2020	09/22/2020	220	120	FRIESSEN, JACOB OIELNER	1753		
<a href="#">L_04780 POD2</a>		L	LE	Shallow		2	1	07	18S	39E	679694	3627228*	470	05/20/1980	05/24/1980	07/09/1980	202	91		576		
<a href="#">L_10528</a>	R	L	LE	Shallow		2	1	07	18S	39E	679694	3627228*	470	10/19/1995	10/19/1995	11/06/1995	170	78	EADES, ALAN	1044		
<a href="#">L_03823</a>		L	LE	Shallow		1	2	08	18S	39E	680700	3627250*	537	03/25/1958	03/26/1958	03/26/1958	135	70		46		
<a href="#">L_01748</a>		L	LE	Shallow		2	3	08	18S	39E	680505	3626840*	543	12/01/1956	12/03/1956	12/18/1956	125	48	FULLINGIM, M.L.	124		
<a href="#">L_00873 POD5</a>		L	LE	Shallow			4	06	18S	39E	679789	3627733*	601	02/23/2000	03/01/2000	04/03/2000	230	110	MARSH, KENNETH R.	586		
<a href="#">L_03494 POD5</a>		L	LE	Shallow		2	3	4	06	18S	39E	679687	3627631*	602	03/01/1978	03/17/1978	03/27/1978	200	90	ABBOTT, MURRELL	46	
<a href="#">L_03494 POD5</a>	R	L	LE	Shallow		2	3	4	06	18S	39E	679687	3627631*	602	03/01/1978	03/17/1978	03/27/1978	200	90	ABBOTT, MURRELL	46	
<a href="#">L_03494 POD6</a>		L	LE	Shallow		2	3	4	06	18S	39E	679687	3627631*	602	01/28/1979	02/08/1979	03/14/1979	170	75	VAN NOY, W.L.	208	
<a href="#">L_03494 POD6</a>	R	L	LE	Shallow		2	3	4	06	18S	39E	679687	3627631*	602	01/28/1979	02/08/1979	03/14/1979	170	75	VAN NOY, W.L.	208	
<a href="#">L_08850</a>		L	LE	Shallow		1	1	2	07	18S	39E	679494	3627228*	669	07/06/1982	07/09/1982	07/23/1982	150	65	BUFORD, O.C. "ROCKY"	897	
<a href="#">L_03933</a>		L	LE	Shallow		2	4	06	18S	39E	679982	3627942*	703	09/07/1963	09/12/1963	01/23/1964	160	53	FULLINGIM, M.L.	124		

**Record Count:** 18

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 680162.92

**Northing (Y):** 3627262.34

**Radius:** 805

\*UTM location was derived from PLSS - see Help

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6/8/22 11:55 AM

WELLS WITH WELL LOG INFORMATION



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L	06469	4	4	4	06	18S	39E	680088	3627438* 
<hr/>									
Driller License: 46		Driller Company:				ABBOTT BROTHERS COMPANY			
Driller Name:		MURRELL ABBOTT							
Drill Start Date: 01/31/1969		Drill Finish Date:				02/01/1969		Plug Date:	
Log File Date: 02/04/1969		PCW Rev Date:						Source: Shallow	
Pump Type:		Pipe Discharge Size:						Estimated Yield:	
Casing Size: 5.00		Depth Well:				120 feet		Depth Water: 85 feet	
<hr/>									
Water Bearing Stratifications:					Top	Bottom	Description		
					85	120	Other/Unknown		

\*UTM location was derived from PLSS - see Help

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10/20/22 11:19 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tw</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
L	04571 S3	4	2	2	07	18S	39E	680096	3627035* 

---

**Driller License:** 1498      **Driller Company:** ROBINSON DRILLING

**Driller Name:**

<b>Drill Start Date:</b>	08/02/2002	<b>Drill Finish Date:</b>	08/05/2002	<b>Plug Date:</b>	
<b>Log File Date:</b>	08/09/2002	<b>PCW Rev Date:</b>	08/05/2008	<b>Source:</b>	Shallow
<b>Pump Type:</b>	SUBMER	<b>Pipe Discharge Size:</b>		<b>Estimated Yield:</b>	200 GPM
<b>Casing Size:</b>	10.75	<b>Depth Well:</b>	223 feet	<b>Depth Water:</b>	120 feet

---

<b>Water Bearing Stratifications:</b>	<b>Top</b>	<b>Bottom</b>	<b>Description</b>
	125	162	Sandstone/Gravel/Conglomerate
	199	221	Sandstone/Gravel/Conglomerate

---

<b>Casing Perforations:</b>	<b>Top</b>	<b>Bottom</b>
	123	223

---

\*UTM location was derived from PLSS - see Help

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10/20/22 11:20 AM

POINT OF DIVERSION SUMMARY





# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64 Q16 Q4 Sec Tws Rng</b>	<b>X</b>	<b>Y</b>
L	00873 POD6	3 4 4 06 18S 39E	679888	3627438*

x

**Driller License:** 1498      **Driller Company:** ROBINSON DRILLING

**Driller Name:** ROBINSON, B.J. (LD)

<b>Drill Start Date:</b> 05/04/2001	<b>Drill Finish Date:</b> 05/05/2001	<b>Plug Date:</b>
<b>Log File Date:</b> 05/10/2001	<b>PCW Rcv Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b>
<b>Casing Size:</b> 10.75	<b>Depth Well:</b> 230 feet	<b>Depth Water:</b> 115 feet

x

<b>Meter Number:</b> 19627	<b>Meter Make:</b> MCCROMETER
<b>Meter Serial Number:</b> GP14-10026-4	<b>Meter Multiplier:</b> 100.0000
<b>Number of Dials:</b> 6	<b>Meter Type:</b> Diversion
<b>Unit of Measure:</b> Gallons	<b>Return Flow Percent:</b>
<b>Usage Multiplier:</b>	<b>Reading Frequency:</b> Quarterly

### Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
04/01/2016	2016	103735	A	dd		0
10/01/2016	2016	125871	A	dd		6.793
04/01/2017	2017	125871	A	dd		0
07/01/2017	2017	125871	A	dd		0
01/01/2018	2017	125871	A	dd		0
07/03/2018	2018	125871	A	dd		0
10/01/2018	2018	125871	A	dd		0
01/01/2019	2018	125871	A	dd		0
04/01/2019	2019	125871	A	dd		0
07/01/2019	2019	125871	A	dd		0
01/01/2020	2019	125871	A	dd		0
04/01/2020	2020	125871	A	dd		0
10/01/2020	2020	125871	A	dd		0
01/01/2021	2020	125871	A	dd		0
04/01/2021	2021	125871	A	dd		0

<b>**YTD Meter Amounts:</b>	<b>Year</b>	<b>Amount</b>
	2016	6.793
	2017	0
	2018	0
	2019	0
	2020	0
	2021	0

x

\*UTM location was derived from PLSS - see Help

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10/20/22 12:08 PM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
L	04526 POD2	1	1	3	20	18S	39E	680347	3623243 

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<b>Driller License:</b>	1611	<b>Driller Company:</b>	GOERTZEN DRILLING
<b>Driller Name:</b>			
<b>Drill Start Date:</b>	11/03/2008	<b>Drill Finish Date:</b>	11/04/2008
<b>Log File Date:</b>	11/14/2008	<b>PCW Rev Date:</b>	
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>	
<b>Casing Size:</b>	6.00	<b>Depth Well:</b>	229 feet
		<b>Depth Water:</b>	

---

<b>Casing Perforations:</b>	<b>Top</b>	<b>Bottom</b>
	169	229

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6/1/22 2:55 PM

POINT OF DIVERSION SUMMARY





# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

(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	00873 POD4	3	3	05	18S	39E	680391 3627546*

x

**Driller License:** 586      **Driller Company:** MARSH, KENNETH RAY

**Driller Name:** MARSH, KENNETH R.

<b>Drill Start Date:</b> 02/23/2000	<b>Drill Finish Date:</b> 03/01/2000	<b>Plug Date:</b>
<b>Log File Date:</b> 04/20/2000	<b>PCW Rev Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b>
<b>Casing Size:</b> 12.75	<b>Depth Well:</b> 230 feet	<b>Depth Water:</b> 110 feet

x

<b>Water Bearing Stratifications:</b>	<b>Top</b>	<b>Bottom</b>	<b>Description</b>
	175	182	Sandstone/Gravel/Conglomerate
	188	194	Sandstone/Gravel/Conglomerate
	196	226	Sandstone/Gravel/Conglomerate

x

<b>Casing Perforations:</b>	<b>Top</b>	<b>Bottom</b>
	110	230

x

<b>Meter Number:</b> 19625	<b>Meter Make:</b> MCCROMETER
<b>Meter Serial Number:</b> GP14-10027-4	<b>Meter Multiplier:</b> 100.0000
<b>Number of Dials:</b> 6	<b>Meter Type:</b> Diversion
<b>Unit of Measure:</b> Gallons	<b>Return Flow Percent:</b>
<b>Usage Multiplier:</b>	<b>Reading Frequency:</b> Quarterly

x

### Meter Readings (in Acre-Feet)

<b>Read Date</b>	<b>Year</b>	<b>Mtr Reading</b>	<b>Flag</b>	<b>Rdr</b>	<b>Comment</b>	<b>Mtr Amount Online</b>
04/01/2016	2016	170786	A	dd		0
10/01/2016	2016	225543	A	dd		16.804
04/01/2017	2017	225543	A	dd		0
07/01/2017	2017	240607	A	dd		4.623
01/01/2018	2017	242918	A	dd		0.709
07/03/2018	2018	260135	A	dd		5.284
10/01/2018	2018	260135	A	dd		0
01/01/2019	2018	260135	A	dd		0
04/01/2019	2019	260135	A	dd		0
07/03/2019	2019	287167	A	dd		8.296
01/01/2020	2019	313028	A	dd		7.936
04/01/2020	2020	322366	A	dd		2.866
10/01/2020	2020	337832	A	dd		4.746
01/01/2021	2020	337832	A	dd		0
04/01/2021	2021	337832	A	dd		0

x

<b>**YTD Meter Amounts:</b>	<b>Year</b>	<b>Amount</b>
	2016	16.804

2017	5.332
2018	5.284
2019	16.232
2020	7.612
2021	0

x

\*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
L	11965 POD1	1	2	07	18S	39E	680525	3627337	

---

<b>Driller License:</b>	1044	<b>Driller Company:</b>	EADES WELL DRILLING & PUMP SERVICE	
<b>Driller Name:</b>	EADES, ALAN			
<b>Drill Start Date:</b>	09/27/2006	<b>Drill Finish Date:</b>	09/27/2006	<b>Plug Date:</b>
<b>Log File Date:</b>	10/17/2006	<b>PCW Rev Date:</b>		<b>Source:</b> Shallow
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>		<b>Estimated Yield:</b>
<b>Casing Size:</b>	5.75	<b>Depth Well:</b>	201 feet	<b>Depth Water:</b>

---

<b>Water Bearing Stratifications:</b>	<b>Top</b>	<b>Bottom</b>	<b>Description</b>
	133	196	Sandstone/Gravel/Conglomerate
	196	199	Sandstone/Gravel/Conglomerate

---

<b>Casing Perforations:</b>	<b>Top</b>	<b>Bottom</b>
	161	201

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POINT OF DIVERSION SUMMARY





# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y		
20C7C	L 10528 POD2	2	1	2	07	18S	39E	679761	3627293		
Driller License: 1753		Driller Company:				VANGUARD WATER WELLS					
Driller Name:		FRIESSEN, JACOBO IELNER									
Drill Start Date: 08/16/2020		Drill Finish Date:				08/17/2020		Plug Date:			
Log File Date: 09/22/2020		PCW Rev Date:				Source:				Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:					
Casing Size: 5.00		Depth Well:				220 feet		Depth Water:		120 feet	
Water Bearing Stratifications:					Top	Bottom	Description				
					75	185	Sandstone/Gravel/Conglomerate				
					191	198	Sandstone/Gravel/Conglomerate				
					198	215	Sandstone/Gravel/Conglomerate				
Casing Perforations:					Top	Bottom					
					180	220					

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10/20/22 12:09 PM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
L	04780 POD2	2	1	2	07	18S	39E	679694	3627228* 

---

**Driller License:** 576      **Driller Company:** STONE, T.J.

**Driller Name:**

**Drill Start Date:** 05/20/1980      **Drill Finish Date:** 05/24/1980      **Plug Date:**

**Log File Date:** 07/09/1980      **PCW Rcv Date:**      **Source:** Shallow

**Pump Type:**      **Pipe Discharge Size:**      **Estimated Yield:** 75 GPM

**Casing Size:** 6.63      **Depth Well:** 202 feet      **Depth Water:** 91 feet

---

**Water Bearing Stratifications:**

Top	Bottom	Description
125	200	Shallow Alluvium/Basin Fill
200	202	Shallow Alluvium/Basin Fill

---

**Casing Perforations:**

Top	Bottom
70	200

\*UTM location was derived from PLSS - see Help

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11/1/22 10:02 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L	03823	1	2	1	08	18S	39E	680700	3627250* 
Driller License: 46		Driller Company:		ABBOTT BROTHERS COMPANY					
Driller Name:									
Drill Start Date: 03/25/1958		Drill Finish Date:		03/26/1958		Plug Date:		03/23/1960	
Log File Date: 03/26/1958		PCW Rcv Date:				Source:		Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size: 7.00		Depth Well:		135 feet		Depth Water:		70 feet	
Water Bearing Stratifications:					Top	Bottom	Description		
					76	135	Sandstone/Gravel/Conglomerate		
Casing Perforations:					Top	Bottom			
					65	135			

\*UTM location was derived from PLSS - see Help

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6/1/22 2:50 PM

POINT OF DIVERSION SUMMARY





# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tw</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
L	01748	2	3	1	08	18S	39E	680505	3626840*

---

**Driller License:** 124      **Driller Company:** FULLINGIM, M.L.

**Driller Name:** FULLINGIM, M.L.

**Drill Start Date:** 12/01/1956      **Drill Finish Date:** 12/03/1956      **Plug Date:**

**Log File Date:** 12/18/1956      **PCW Rcv Date:**      **Source:** Shallow

**Pump Type:**      **Pipe Discharge Size:**      **Estimated Yield:**

**Casing Size:**      **Depth Well:** 125 feet      **Depth Water:** 48 feet

---

<b>Water Bearing Stratifications:</b>	<b>Top</b>	<b>Bottom</b>	<b>Description</b>
	48	63	Shallow Alluvium/Basin Fill
	87	105	Shallow Alluvium/Basin Fill

\*UTM location was derived from PLSS - see Help

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6/1/22 2:51 PM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

(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	00873 POD5		4	06	18S 39E	679789	3627733*

**Driller License:** 586      **Driller Company:** MARSH, KENNETH RAY

**Driller Name:** MARSH, KENNETH R.

<b>Drill Start Date:</b> 02/23/2000	<b>Drill Finish Date:</b> 03/01/2000	<b>Plug Date:</b>
<b>Log File Date:</b> 04/03/2000	<b>PCW Rcv Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b>
<b>Casing Size:</b> 12.75	<b>Depth Well:</b> 230 feet	<b>Depth Water:</b> 110 feet

### Water Bearing Stratifications:

Top	Bottom	Description
175	182	Sandstone/Gravel/Conglomerate
188	194	Sandstone/Gravel/Conglomerate
196	226	Sandstone/Gravel/Conglomerate

### Casing Perforations:

Top	Bottom
110	230

<b>Meter Number:</b> 19626	<b>Meter Make:</b> MCCROMETER
<b>Meter Serial Number:</b> GP14-10028-4	<b>Meter Multiplier:</b> 100.0000
<b>Number of Dials:</b> 6	<b>Meter Type:</b> Diversion
<b>Unit of Measure:</b> Gallons	<b>Return Flow Percent:</b>
<b>Usage Multiplier:</b>	<b>Reading Frequency:</b> Quarterly

### Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
04/01/2016	2016	173	A	dd		0
10/01/2016	2016	174	A	dd		0
04/01/2017	2017	174	A	dd		0
07/01/2017	2017	174	A	dd		0
01/01/2018	2017	174	A	dd		0
10/01/2018	2018	174	A	dd		0
01/01/2019	2018	174	A	dd		0
04/01/2019	2019	174	A	dd		0
07/03/2019	2019	174	A	dd		0
01/01/2020	2019	174	A	dd		0
04/01/2020	2020	174	A	dd		0
10/01/2020	2020	174	A	dd		0
01/01/2021	2020	174	A	dd		0
04/01/2021	2021	174	A	dd		0

**\*\*YTD Meter Amounts:**

Year	Amount
2016	0
2017	0

2018	0
2019	0
2020	0
2021	0

x

**\*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.

11/1/22 10:04 AM

POINT OF DIVERSION SUMMARY





# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tw</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
L	03494 POD5	2	3	4	06	18S	39E	679687	3627631*

---

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

**Driller Name:** ABBOTT, MURRELL

<b>Drill Start Date:</b>	03/01/1978	<b>Drill Finish Date:</b>	03/17/1978	<b>Plug Date:</b>	
<b>Log File Date:</b>	03/27/1978	<b>PCW Rev Date:</b>	02/15/1982	<b>Source:</b>	Shallow
<b>Pump Type:</b>	SUBMER	<b>Pipe Discharge Size:</b>	3	<b>Estimated Yield:</b>	
<b>Casing Size:</b>	7.00	<b>Depth Well:</b>	200 feet	<b>Depth Water:</b>	90 feet

---

<b>Water Bearing Stratifications:</b>	<b>Top</b>	<b>Bottom</b>	<b>Description</b>
	90	200	Other/Unknown

---

<b>Casing Perforations:</b>	<b>Top</b>	<b>Bottom</b>
	173	200

---

\*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.


11/1/22 10:05 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
L	03494 POD6	2	3	4	06	18S	39E	679687	3627631* 
Driller License:	208	Driller Company:				VAN NOY, W.L.			
Driller Name:	VAN NOY, W.L.								
Drill Start Date:	01/28/1979	Drill Finish Date:				02/08/1979		Plug Date:	
Log File Date:	03/14/1979	PCW Rcv Date:				02/15/1982		Source:	Shallow
Pump Type:	SUBMER	Pipe Discharge Size:				2		Estimated Yield:	
Casing Size:	6.63	Depth Well:				170 feet		Depth Water:	75 feet
Water Bearing Stratifications:					Top	Bottom	Description		
					75	170	Shallow Alluvium/Basin Fill		
Casing Perforations:					Top	Bottom			
					150	170			

\*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.

11/1/22 10:06 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tw</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
L	08850	1	1	2	07	18S	39E	679494	3627228*

---

<b>Driller License:</b>	897	<b>Driller Company:</b>	"BUFORD, O.C. ""ROCKY""	"
<b>Driller Name:</b>	BUFORD, O.C. "ROCKY"			
<b>Drill Start Date:</b>	07/06/1982	<b>Drill Finish Date:</b>	07/09/1982	<b>Plug Date:</b>
<b>Log File Date:</b>	07/23/1982	<b>PCW Rcv Date:</b>		<b>Source:</b> Shallow
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>		<b>Estimated Yield:</b>
<b>Casing Size:</b>	6.00	<b>Depth Well:</b>	150 feet	<b>Depth Water:</b> 65 feet

---

<b>Water Bearing Stratifications:</b>	<b>Top</b>	<b>Bottom</b>	<b>Description</b>
	65	150	Other/Unknown

---

<b>Casing Perforations:</b>	<b>Top</b>	<b>Bottom</b>
	144	150

---

\*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.

11/1/22 10:07 AM


POINT OF DIVERSION SUMMARY





# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
L	03933	2	4	06	18S	39E	679982	3627942*			
<hr/>											
Driller License: 124		Driller Company:				FULLINGIM, M.L.					
Driller Name:		FULLINGIM, M.L.									
Drill Start Date: 09/07/1963		Drill Finish Date:				09/12/1963		Plug Date:			
Log File Date: 01/23/1964		PCW Rev Date:				Source:				Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:					
Casing Size:		Depth Well:				160 feet		Depth Water:		53 feet	
<hr/>											
Water Bearing Stratifications:					Top	Bottom	Description				
					53	110	Sandstone/Gravel/Conglomerate				
					117	160	Sandstone/Gravel/Conglomerate				

\*UTM location was derived from PLSS - see Help

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

11/1/22 10:07 AM

POINT OF DIVERSION SUMMARY



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## National Water Information System: Web Interface

USGS Water Resources

Data Category:  Geographic Area:

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for the Nation

Important: [Next Generation Monitoring Location Page](#)

### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 324601103042101

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

### USGS 324601103042101 18S.39E.06.44442

Lea County, New Mexico

Latitude 32°46'01", Longitude 103°04'21" NAD27

Land-surface elevation 3,644 feet above NAVD88

The depth of the well is 120 feet below land surface.

This well is completed in the High Plains aquifer (N100HGHLN) national aquifer.

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

#### Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1980-01-03			D 62610		3548.39	NGVD29	1	Z		
1980-01-03			D 62611		3549.50	NAVD88	1	Z		
1980-01-03			D 72019	94.50			1	Z		
1981-01-06			D 62610		3546.52	NGVD29	1	Z		
1981-01-06			D 62611		3547.63	NAVD88	1	Z		
1981-01-06			D 72019	96.37			1	Z		
1981-10-20			D 62610		3545.31	NGVD29	1	Z		
1981-10-20			D 62611		3546.42	NAVD88	1	Z		
1981-10-20			D 72019	97.58			1	Z		
1982-01-06			D 62610		3544.95	NGVD29	1	Z		
1982-01-06			D 62611		3546.06	NAVD88	1	Z		
1982-01-06			D 72019	97.94			1	Z		
1983-01-04			D 62610		3543.65	NGVD29	1	Z		
1983-01-04			D 62611		3544.76	NAVD88	1	Z		
1983-01-04			D 72019	99.24			1	Z		
1984-01-04			D 62610		3542.64	NGVD29	1	Z		
1984-01-04			D 62611		3543.75	NAVD88	1	Z		
1984-01-04			D 72019	100.25			1	Z		
1985-01-08			D 62610		3541.75	NGVD29	1	Z		
1985-01-08			D 62611		3542.86	NAVD88	1	Z		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1985-01-08			D72019	101.14			1		Z	
1986-01-09			D62610		3540.80	NGVD29	1		Z	
1986-01-09			D62611		3541.91	NAVD88	1		Z	
1986-01-09			D72019	102.09			1		Z	
1987-01-07			D62610		3540.02	NGVD29	1		Z	
1987-01-07			D62611		3541.13	NAVD88	1		Z	
1987-01-07			D72019	102.87			1		Z	
1988-01-08			D62610		3539.19	NGVD29	1		Z	
1988-01-08			D62611		3540.30	NAVD88	1		Z	
1988-01-08			D72019	103.70			1		Z	
1989-01-04			D62610		3538.67	NGVD29	1		Z	
1989-01-04			D62611		3539.78	NAVD88	1		Z	
1989-01-04			D72019	104.22			1		Z	
1990-01-03			D62610		3538.22	NGVD29	1		Z	
1990-01-03			D62611		3539.33	NAVD88	1		Z	
1990-01-03			D72019	104.67			1		Z	
1991-01			M62610			NGVD29	O		Z	
1991-01			M62611			NAVD88	O		Z	
1991-01			M72019				O		Z	
1992-01			M62610			NGVD29	O		Z	
1992-01			M62611			NAVD88	O		Z	
1992-01			M72019				O		Z	
1993-01-05			D62610			NGVD29	O		Z	
1993-01-05			D62611			NAVD88	O		Z	
1993-01-05			D72019				O		Z	

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

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

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2022-06-01 15:59:38 EDT

0.3 0.27 nadww01

## **Attachment III Field Data**

Hungry Horse, LLC

## Sample Log

Date: 5/3/22

Project: South Carter SA Unit #501

Latitude: 32.768517

Longitude: -103.076546

Sampler: B. Wells

Sample ID	Depth	PID/Odor	Chloride	GPS
Sp1	Surf	N/A	$1.6 = 32 \times 4 = 128$	
	1'	N/A	$2.4 = 65 \times 4 = 260$	
	2'	N/A	$.02 \times 1000 = 200$	
	3'	N/A	$2.0 = 50 \times 4 = 200$	
	4'	N/A	$2.0 = 50 \times 4 = 200$	
Sp2	Surf	N/A	$1.8 = 38 \times 4 = 152$	
	1'	N/A	$1.6 = 32 \times 4 = 128$	
	2'	N/A	<100	
	3'	N/A	<100	
	4'	N/A	<100	
Sp3	Surf	N/A	<100	
	1'	N/A	$1.8 = 43 \times 4 = 172$	
	2'	N/A	$.09 \times 1000 = 90$	
	3'	N/A	$1.4 = 30 \times 4 = 120$	
	4'	N/A	<100	
Sp4	Surf	N/A	$1.8 = 38 \times 4 = 152$	
	1'	N/A	$2.4 = 65 \times 4 = 260$	
	2'	N/A	$1.6 = 32 \times 4 = 128$	
	3'	N/A	<100	
	4'	N/A	<100	
Sp5	Surf	N/A	$1.6 = 32 \times 4 = 128$	
	1'	N/A	$1.8 = 43 \times 4 = 172$	
	2'	N/A	$1.4 = 30 \times 4 = 120$	
	3'	-	<100	
	4'	N/A	<100	
Sp6	Surf	N/A?	$3.0 = 88 \times 4 = 352$	
	1'	yes	$.38 \times 1000 = 380$	
	2'	yes	$.30 \times 1000 = 300$	
	3'	N/A/no	$.30 \times 1000 = 300$	
	4'	N/A	$2.4 = 65 \times 4 = 260$	
Sp7	Surf	N/A	$1.6 = 32 \times 4 = 128$	
	1'	TPH	$2.0 = 50 \times 4 = 200$	
	2'	yes	$.09 \times 1000 = 90$	
	3'	N/A	$.30 \times 1000 = 300$	
	4'	N/A	$.09 \times 1000 = 90$	

Sample Point = SP1 @ ## etc

Floor = FL1 etc

Sidewall = SW1 etc

Horizontal = HZ1 etc

Refusal = SP1 @ 4'-R

GPS Sample Points, Center of Comp Areas

Test Trench = TT1 @ ##

Resamples = SP1b @ 5' or SW #1b

Stockpile = Stockpile #1



## Sample Log

**Hungry Horse, LLC**

Date: 5/3/22

Project: South Carter SA Unit #501

Latitude: 32.768517

Longitude: -103.076546

Sampler: B-Wells

[illegible]

**Sample Point = SP1 @ ## etc**

**Floor = FL1 etc**

**Sidewall = SW1 etc**

**Horizontal = H21 etc**

**Refusal = SP1 @ 4'-R**

### GPS Sample Points, Center of Comp Areas

Test Trench = TT1 @ ##

Resamples= SP1b @ S' or SW #1b

**Stockpile = Stockpile #1**

## Sample Log

Hungry Horse, LLC

Date: 10/5/22Project: South Carter SA Unit #501Latitude: 32.768517Longitude: -103.076546Sampler: Jorge Valeriano

Sample ID	Depth	PID/Odor	Chloride	GPS
FL 1	4'	N/A	$2.8 = 83 \times 4 = 332$	
FL 2	4'	N/A	$2.6 = 74 \times 4 = 296$	
FL 3	4'	N/A	$2.8 = 83 \times 4 = 332$	
FL 4	4'	N/A	$2.2 = 57 \times 4 = 228$	
FL 5	4'	N/A	$.09 \times 1000 = 90$	
FL 6	4'	N/A	$1.8 = 43 \times 4 = 172$	
FL 7	4'	N/A	$1.5 \times 1000 = 150$	
FL 8	4'	N/A	$2.0 = 50 \times 4 = 200$	
FL 9	4'	N/A	$2.0 = 50 \times 4 = 200$	
FL 10	4'	N/A	$1.6 = 36 \times 4 = 144$	
SW 1	2'	N/A	$1.6 = 36 \times 4 = 144$	
SW 2	2'	N/A	$1.8 = 43 \times 4 = 172$	
SW 3	2'	N/A	$2.6 = 74 \times 4 = 296$	
SW 4	2'	N/A	$2.0 = 50 \times 4 = 200$	
SW 5	2'	N/A	$.22 \times 1000 = 220$	
SW 6	2'	N/A	$1.8 = 43 \times 4 = 172$	
SW 7	2'	N/A	$1.6 = 36 \times 4 = 144$	
SW 8	2'	N/A	$2.0 = 50 \times 4 = 200$	

Sample Point = SP1 @ ## etc

Floor = FL1 etc

Sidewall = SW1 etc

Horizontal = HZ1 etc

Refusal = SP1 @ 4'-R

GPS Sample Points, Center of Comp Areas

Test Trench = TT1 @ ##

Resamples = SP1b @ S' or SW #1b

Stockpile = Stockpile #1

## **Attachment IV**

### **Laboratory Analytical Reports**





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

---

May 09, 2022

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: SOUTH CARTER SA UNIT #501

Enclosed are the results of analyses for samples received by the laboratory on 05/03/22 15:58.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/03/2022	Sampling Date:	05/03/2022
Reported:	05/09/2022	Sampling Type:	Soil
Project Name:	SOUTH CARTER SA UNIT #501	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	GWD - UL/A SEC 7 T18S - R39E		

**Sample ID: SP 1 (H221850-01)**

BTX 8021B			mg/kg		Analyzed By: MS\				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2022	ND	2.18	109	2.00	1.16	
Toluene*	<0.050	0.050	05/08/2022	ND	2.14	107	2.00	1.41	
Ethylbenzene*	<0.050	0.050	05/08/2022	ND	2.08	104	2.00	1.77	
Total Xylenes*	<0.150	0.150	05/08/2022	ND	6.43	107	6.00	1.22	
Total BTX	<0.300	0.300	05/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/06/2022	ND	432	108	400	3.64	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	198	98.8	200	5.89	
DRO >C10-C28*	54.3	10.0	05/06/2022	ND	207	104	200	5.77	
EXT DRO >C28-C36	91.4	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 75.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.1 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/03/2022  
 Reported: 05/09/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 05/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 (H221850-02)**

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2022	ND	2.18	109	2.00	1.16	
Toluene*	<0.050	0.050	05/08/2022	ND	2.14	107	2.00	1.41	
Ethylbenzene*	<0.050	0.050	05/08/2022	ND	2.08	104	2.00	1.77	
Total Xylenes*	<0.150	0.150	05/08/2022	ND	6.43	107	6.00	1.22	
Total BTEx	<0.300	0.300	05/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/06/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	198	98.8	200	5.89	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	207	104	200	5.77	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 71.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 73.9 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/03/2022  
 Reported: 05/09/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 05/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 (H221850-03)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2022	ND	2.18	109	2.00	1.16		
Toluene*	<0.050	0.050	05/08/2022	ND	2.14	107	2.00	1.41		
Ethylbenzene*	<0.050	0.050	05/08/2022	ND	2.08	104	2.00	1.77		
Total Xylenes*	<0.150	0.150	05/08/2022	ND	6.43	107	6.00	1.22		
Total BTEx	<0.300	0.300	05/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/06/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	198	98.8	200	5.89	
DRO >C10-C28*	10.5	10.0	05/06/2022	ND	207	104	200	5.77	
EXT DRO >C28-C36	20.6	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 72.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 74.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 05/03/2022  
 Reported: 05/09/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 05/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 (H221850-04)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2022	ND	2.18	109	2.00	1.16		
Toluene*	<0.050	0.050	05/08/2022	ND	2.14	107	2.00	1.41		
Ethylbenzene*	<0.050	0.050	05/08/2022	ND	2.08	104	2.00	1.77		
Total Xylenes*	<0.150	0.150	05/08/2022	ND	6.43	107	6.00	1.22		
Total BTEx	<0.300	0.300	05/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/06/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2022	ND	198	98.8	200	5.89	
DRO >C10-C28*	<10.0	10.0	05/07/2022	ND	207	104	200	5.77	
EXT DRO >C28-C36	<10.0	10.0	05/07/2022	ND					

Surrogate: 1-Chlorooctane 71.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 75.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/03/2022  
 Reported: 05/09/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 05/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 (H221850-05)**

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2022	ND	2.18	109	2.00	1.16	
Toluene*	<0.050	0.050	05/08/2022	ND	2.14	107	2.00	1.41	
Ethylbenzene*	<0.050	0.050	05/08/2022	ND	2.08	104	2.00	1.77	
Total Xylenes*	<0.150	0.150	05/08/2022	ND	6.43	107	6.00	1.22	
Total BTEx	<0.300	0.300	05/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	198	98.8	200	5.89	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	207	104	200	5.77	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 69.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 75.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/03/2022  
 Reported: 05/09/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 05/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 6 (H221850-06)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2022	ND	2.18	109	2.00	1.16	
Toluene*	<0.050	0.050	05/08/2022	ND	2.14	107	2.00	1.41	
Ethylbenzene*	<0.050	0.050	05/08/2022	ND	2.08	104	2.00	1.77	
Total Xylenes*	<0.150	0.150	05/08/2022	ND	6.43	107	6.00	1.22	
Total BTX	<0.300	0.300	05/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2022	ND	198	98.8	200	5.89	
DRO >C10-C28*	685	10.0	05/07/2022	ND	207	104	200	5.77	
EXT DRO >C28-C36	667	10.0	05/07/2022	ND					

Surrogate: 1-Chlorooctane 89.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 171 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/03/2022  
 Reported: 05/09/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 05/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 7 (H221850-07)**

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2022	ND	2.18	109	2.00	1.16	
Toluene*	<0.050	0.050	05/08/2022	ND	2.14	107	2.00	1.41	
Ethylbenzene*	<0.050	0.050	05/08/2022	ND	2.08	104	2.00	1.77	
Total Xylenes*	<0.150	0.150	05/08/2022	ND	6.43	107	6.00	1.22	
Total BTEx	<0.300	0.300	05/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2022	ND	198	98.8	200	5.89	
DRO >C10-C28*	154	10.0	05/07/2022	ND	207	104	200	5.77	
EXT DRO >C28-C36	351	10.0	05/07/2022	ND					

Surrogate: 1-Chlorooctane 75.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 210 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 05/03/2022  
 Reported: 05/09/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 05/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 8 (H221850-08)**

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2022	ND	2.18	109	2.00	1.16	
Toluene*	<0.050	0.050	05/08/2022	ND	2.14	107	2.00	1.41	
Ethylbenzene*	<0.050	0.050	05/08/2022	ND	2.08	104	2.00	1.77	
Total Xylenes*	<0.150	0.150	05/08/2022	ND	6.43	107	6.00	1.22	
Total BTEx	<0.300	0.300	05/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/06/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	198	98.8	200	5.89	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	207	104	200	5.77	
EXT DRO >C28-C36	19.2	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 78.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/03/2022  
 Reported: 05/09/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 05/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 9 (H221850-09)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2022	ND	2.18	109	2.00	1.16		
Toluene*	<0.050	0.050	05/08/2022	ND	2.14	107	2.00	1.41		
Ethylbenzene*	<0.050	0.050	05/08/2022	ND	2.08	104	2.00	1.77		
Total Xylenes*	<0.150	0.150	05/08/2022	ND	6.43	107	6.00	1.22		
Total BTEx	<0.300	0.300	05/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/06/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	198	98.8	200	5.89	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	207	104	200	5.77	
EXT DRO >C28-C36	14.1	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 76.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/03/2022  
 Reported: 05/09/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 05/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 10 (H221850-10)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2022	ND	2.18	109	2.00	1.16		
Toluene*	<0.050	0.050	05/08/2022	ND	2.14	107	2.00	1.41		
Ethylbenzene*	<0.050	0.050	05/08/2022	ND	2.08	104	2.00	1.77		
Total Xylenes*	<0.150	0.150	05/08/2022	ND	6.43	107	6.00	1.22		
Total BTEx	<0.300	0.300	05/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	198	98.8	200	5.89	
DRO >C10-C28*	217	10.0	05/06/2022	ND	207	104	200	5.77	
EXT DRO >C28-C36	213	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 82.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 122 % 59.5-142

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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager





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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Hungry Horse LLC		P.O. #:		BILL TO		ANALYSIS REQUEST									
Project Manager: Daniel Dominguez		Address: PO Box 1058		Company: Great Western Drilling											
City: Hobbs		State: NM		Zip: 88241											
Phone #: 575 393-3386		Fax #:		Attn: Dennis Pender											
Project #:		Project Owner: Great Western Drilling		Address: 700 W. Louisiana Ave.											
Project Name: South Carter SA Unit #501		City: Midland		State: TX		Zip: 79701									
Project Location: U/L A Sec 7 T18S - R39E		Phone #: 432-682-5241		Fax #:											
Sampler Name: Bradley Wells															

FOR LAB USE ONLY										PRESERV.		SAMPLING	
Lab I.D. Sample I.D.										MATRIX			
(G)RAB OR (C)OMP.										GROUNDWATER		WASTEWATER	
# CONTAINERS										SOIL		OIL	
										SLUDGE		OTHER :	
										ACID/BASE:		ICE / COOL	
										OTHER :			
DATE										TIME			

1	SP1	C	1	X		5/3/22		X	X	X										
2	SP2	C	1	X		5/3/22		X	X	X										
3	SP3	C	1	X		5/3/22		X	X	X										
4	SP4	C	1	X		5/3/22		X	X	X										
5	SP5	C	1	X		5/3/22		X	X	X										
6	SP6	C	1	X		5/3/22		X	X	X										
7	SP7	C	1	X		5/3/22		X	X	X										
8	SP8	C	1	X		5/3/22		X	X	X										
9	SP9	C	1	X		5/3/22		X	X	X										
10	SP10	C	1	X		5/3/22		X	X	X										

Chloride		TPH		BTEX 8021											
----------	--	-----	--	-----------	--	--	--	--	--	--	--	--	--	--	--

Relinquished By: <i>[Signature]</i>		Date: 5-3-22		Time: 1558		Received By: <i>[Signature]</i>		Date:		Time:	
Delivered By: (Circle One)		1.4e		0.05e		Sample Condition		Cool		Intact	
Sampler - UPS - Bus - Other:		0.9e #113				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: (Initials) <i>VB</i>	

REMARKS:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #:	
Email results to: pm@hungry-horse.com dpender@gwdc.com			



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

---

August 24, 2022

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: SOUTH CARTER SA UNIT #501

Enclosed are the results of analyses for samples received by the laboratory on 08/22/22 17:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/22/2022	Sampling Date:	08/22/2022
Reported:	08/24/2022	Sampling Type:	Soil
Project Name:	SOUTH CARTER SA UNIT #501	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	GWD - UL/A SEC 7 T18S - R39E		

**Sample ID: SP 1 - 3' (H223845-01)**

BTEX 8021B			mg/kg		Analyzed By: JH/				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2022	ND	2.01	100	2.00	0.209	
Toluene*	<0.050	0.050	08/23/2022	ND	2.00	99.9	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.93	96.5	2.00	0.720	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.05	101	6.00	1.74	
Total BTEX	<0.300	0.300	08/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/23/2022	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2022	ND	199	99.5	200	0.826	
DRO >C10-C28*	473	10.0	08/24/2022	ND	212	106	200	0.983	
EXT DRO >C28-C36	309	10.0	08/24/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 141 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/22/2022  
 Reported: 08/24/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 08/22/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 6 - 3' (H223845-02)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2022	ND	2.01	100	2.00	0.209		
Toluene*	<0.050	0.050	08/23/2022	ND	2.00	99.9	2.00	1.26		
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.93	96.5	2.00	0.720		
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.05	101	6.00	1.74		
Total BTEx	<0.300	0.300	08/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/23/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	199	99.5	200	0.826	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	212	106	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 85.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/22/2022  
 Reported: 08/24/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 08/22/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 7 - 3' (H223845-03)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2022	ND	2.01	100	2.00	0.209		
Toluene*	<0.050	0.050	08/23/2022	ND	2.00	99.9	2.00	1.26		
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.93	96.5	2.00	0.720		
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.05	101	6.00	1.74		
Total BTX	<0.300	0.300	08/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/23/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	199	99.5	200	0.826	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	212	106	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 80.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.8 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 08/22/2022  
 Reported: 08/24/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 08/22/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 10 - 3' (H223845-04)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2022	ND	2.01	100	2.00	0.209		
Toluene*	<0.050	0.050	08/23/2022	ND	2.00	99.9	2.00	1.26		
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.93	96.5	2.00	0.720		
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.05	101	6.00	1.74		
Total BTEx	<0.300	0.300	08/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/23/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	199	99.5	200	0.826	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	212	106	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					

Surrogate: 1-Chlorooctane 88.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Hungry Horse LLC  
Project Manager: Daniel Dominguez

P.O. #:   
Company: Great Western Drilling  
Attn: Dennis Pender

Address: PO Box 1058

City: Hobbs  
State: NM  
Zip: 88241

Phone #: 575 393-3386

Fax #:   
Address: 700 W. Louisiana Ave.

Project #:   
Project Owner: Great Western Drilling

City: Midland  
State: TX  
Zip: 79701

Project Name: South Carter SA Unit #501

Project Location: UL / A Sec 7 T18S - R39E

Project Location: UL / A Sec 7 T18S - R39E

Phone #: 432-682-5241

Project Location: UL / A Sec 7 T18S - R39E

Phone #: 432-682-5241

Project Location: UL / A Sec 7 T18S - R39E

Phone #: 432-682-5241

Project Location: UL / A Sec 7 T18S - R39E

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Phone #: 432-682-5241

Project Location: UL / A Sec 7 T18S - R39E

Phone #: 432-682-5241

Project Location: UL / A Sec 7 T18S - R39E

Phone #: 432-682-5241

Project Location: UL / A Sec 7 T18S - R39E

Phone #: 432-682-5241



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

---

September 28, 2022

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: SOUTH CARTER SA UNIT #501

Enclosed are the results of analyses for samples received by the laboratory on 09/26/22 15:35.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/26/2022  
 Reported: 09/28/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 09/26/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 (H224461-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/28/2022	ND	1.84	92.0	2.00	9.06	
Toluene*	<0.050	0.050	09/28/2022	ND	2.01	101	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/28/2022	ND	1.91	95.3	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/28/2022	ND	5.70	95.1	6.00	9.78	
Total BTX	<0.300	0.300	09/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/28/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2022	ND	203	102	200	1.09	
DRO >C10-C28*	<10.0	10.0	09/27/2022	ND	206	103	200	0.321	
EXT DRO >C28-C36	<10.0	10.0	09/27/2022	ND					

Surrogate: 1-Chlorooctane 96.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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---

### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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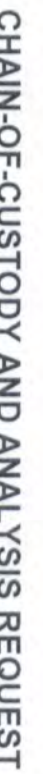
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



(575) 393-2326 FAX (575) 393-2476

Page 4 of 4



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

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October 11, 2022

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: SOUTH CARTER SA UNIT #501

Enclosed are the results of analyses for samples received by the laboratory on 10/05/22 16:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/05/2022	Sampling Date:	10/05/2022
Reported:	10/11/2022	Sampling Type:	Soil
Project Name:	SOUTH CARTER SA UNIT #501	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	GWD - UL/A SEC 7 T18S - R39E		

**Sample ID: FL 1 (H224673-01)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2022	ND	2.08	104	2.00	1.95		
<b>Toluene*</b>	<b>0.117</b>	0.050	10/09/2022	ND	2.05	103	2.00	2.29		
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	1.99	99.5	2.00	2.14		
Total Xylenes*	<0.150	0.150	10/09/2022	ND	6.07	101	6.00	1.82		
Total BTEX	<0.300	0.300	10/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>16.0</b>	16.0	10/10/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2022	ND	222	111	200	3.01	
DRO >C10-C28*	<10.0	10.0	10/08/2022	ND	230	115	200	4.48	
EXT DRO >C28-C36	<10.0	10.0	10/08/2022	ND					

Surrogate: 1-Chlorooctane 97.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/05/2022  
 Reported: 10/11/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 2 (H224673-02)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2022	ND	2.08	104	2.00	1.95	
Toluene*	<0.050	0.050	10/09/2022	ND	2.05	103	2.00	2.29	
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	1.99	99.5	2.00	2.14	
Total Xylenes*	<0.150	0.150	10/09/2022	ND	6.07	101	6.00	1.82	
Total BTEX	<0.300	0.300	10/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/10/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2022	ND	222	111	200	3.01	
DRO >C10-C28*	<10.0	10.0	10/08/2022	ND	230	115	200	4.48	
EXT DRO >C28-C36	<10.0	10.0	10/08/2022	ND					

Surrogate: 1-Chlorooctane 93.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/05/2022  
 Reported: 10/11/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 3 (H224673-03)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2022	ND	2.08	104	2.00	1.95	
Toluene*	<0.050	0.050	10/09/2022	ND	2.05	103	2.00	2.29	
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	1.99	99.5	2.00	2.14	
Total Xylenes*	<0.150	0.150	10/09/2022	ND	6.07	101	6.00	1.82	
Total BTEX	<0.300	0.300	10/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/10/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2022	ND	222	111	200	3.01	
DRO >C10-C28*	<10.0	10.0	10/08/2022	ND	230	115	200	4.48	
EXT DRO >C28-C36	<10.0	10.0	10/08/2022	ND					

Surrogate: 1-Chlorooctane 96.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/05/2022  
 Reported: 10/11/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 4 (H224673-04)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2022	ND	2.08	104	2.00	1.95		
Toluene*	<0.050	0.050	10/09/2022	ND	2.05	103	2.00	2.29		
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	1.99	99.5	2.00	2.14		
Total Xylenes*	<0.150	0.150	10/09/2022	ND	6.07	101	6.00	1.82		
Total BTEx	<0.300	0.300	10/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/10/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2022	ND	222	111	200	3.01	
DRO >C10-C28*	<10.0	10.0	10/08/2022	ND	230	115	200	4.48	
EXT DRO >C28-C36	<10.0	10.0	10/08/2022	ND					

Surrogate: 1-Chlorooctane 87.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/05/2022  
 Reported: 10/11/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 5 (H224673-05)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2022	ND	2.08	104	2.00	1.95		
Toluene*	<0.050	0.050	10/09/2022	ND	2.05	103	2.00	2.29		
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	1.99	99.5	2.00	2.14		
Total Xylenes*	<0.150	0.150	10/09/2022	ND	6.07	101	6.00	1.82		
Total BTEx	<0.300	0.300	10/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/10/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2022	ND	222	111	200	3.01	
DRO >C10-C28*	<10.0	10.0	10/08/2022	ND	230	115	200	4.48	
EXT DRO >C28-C36	<10.0	10.0	10/08/2022	ND					

Surrogate: 1-Chlorooctane 98.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/05/2022  
 Reported: 10/11/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 6 (H224673-06)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2022	ND	2.08	104	2.00	1.95	
Toluene*	<0.050	0.050	10/09/2022	ND	2.05	103	2.00	2.29	
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	1.99	99.5	2.00	2.14	
Total Xylenes*	<0.150	0.150	10/09/2022	ND	6.07	101	6.00	1.82	
Total BTEX	<0.300	0.300	10/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/10/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2022	ND	222	111	200	3.01	
DRO >C10-C28*	<10.0	10.0	10/08/2022	ND	230	115	200	4.48	
EXT DRO >C28-C36	<10.0	10.0	10/08/2022	ND					

Surrogate: 1-Chlorooctane 97.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/05/2022  
 Reported: 10/11/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 7 (H224673-07)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2022	ND	2.08	104	2.00	1.95	
Toluene*	<0.050	0.050	10/09/2022	ND	2.05	103	2.00	2.29	
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	1.99	99.5	2.00	2.14	
Total Xylenes*	<0.150	0.150	10/09/2022	ND	6.07	101	6.00	1.82	
Total BTEX	<0.300	0.300	10/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/10/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2022	ND	222	111	200	3.01	
DRO >C10-C28*	<10.0	10.0	10/08/2022	ND	230	115	200	4.48	
EXT DRO >C28-C36	<10.0	10.0	10/08/2022	ND					

Surrogate: 1-Chlorooctane 94.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.8 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/05/2022  
 Reported: 10/11/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 8 (H224673-08)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2022	ND	2.08	104	2.00	1.95		
Toluene*	<0.050	0.050	10/09/2022	ND	2.05	103	2.00	2.29		
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	1.99	99.5	2.00	2.14		
Total Xylenes*	<0.150	0.150	10/09/2022	ND	6.07	101	6.00	1.82		
Total BTEx	<0.300	0.300	10/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/10/2022	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2022	ND	222	111	200	3.01	
DRO >C10-C28*	<10.0	10.0	10/08/2022	ND	230	115	200	4.48	
EXT DRO >C28-C36	<10.0	10.0	10/08/2022	ND					

Surrogate: 1-Chlorooctane 98.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/05/2022  
 Reported: 10/11/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 9 (H224673-09)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2022	ND	2.08	104	2.00	1.95	
Toluene*	<0.050	0.050	10/09/2022	ND	2.05	103	2.00	2.29	
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	1.99	99.5	2.00	2.14	
Total Xylenes*	<0.150	0.150	10/09/2022	ND	6.07	101	6.00	1.82	
Total BTEX	<0.300	0.300	10/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/10/2022	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2022	ND	222	111	200	3.01	
DRO >C10-C28*	<10.0	10.0	10/08/2022	ND	230	115	200	4.48	
EXT DRO >C28-C36	<10.0	10.0	10/08/2022	ND					

Surrogate: 1-Chlorooctane 96.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/05/2022  
 Reported: 10/11/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 10 (H224673-10)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2022	ND	2.08	104	2.00	1.95		
Toluene*	<0.050	0.050	10/09/2022	ND	2.05	103	2.00	2.29		
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	1.99	99.5	2.00	2.14		
Total Xylenes*	<0.150	0.150	10/09/2022	ND	6.07	101	6.00	1.82		
Total BTEX	<0.300	0.300	10/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/10/2022	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2022	ND	222	111	200	3.01	
DRO >C10-C28*	<10.0	10.0	10/08/2022	ND	230	115	200	4.48	
EXT DRO >C28-C36	<10.0	10.0	10/08/2022	ND					

Surrogate: 1-Chlorooctane 99.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/05/2022  
 Reported: 10/11/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 1 (H224673-11)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2022	ND	2.31	116	2.00	4.75	
Toluene*	<0.050	0.050	10/09/2022	ND	2.16	108	2.00	4.22	
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	2.09	104	2.00	5.37	
Total Xylenes*	<0.150	0.150	10/09/2022	ND	6.37	106	6.00	5.59	
Total BTX	<0.300	0.300	10/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/10/2022	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2022	ND	222	111	200	3.01	
DRO >C10-C28*	<10.0	10.0	10/08/2022	ND	230	115	200	4.48	
EXT DRO >C28-C36	<10.0	10.0	10/08/2022	ND					

Surrogate: 1-Chlorooctane 93.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/05/2022  
 Reported: 10/11/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 2 (H224673-12)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2022	ND	2.31	116	2.00	4.75		
Toluene*	0.177	0.050	10/09/2022	ND	2.16	108	2.00	4.22		
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	2.09	104	2.00	5.37		
Total Xylenes*	<0.150	0.150	10/09/2022	ND	6.37	106	6.00	5.59		
Total BTEx	<0.300	0.300	10/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/10/2022	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2022	ND	222	111	200	3.01	
DRO >C10-C28*	<10.0	10.0	10/08/2022	ND	230	115	200	4.48	
EXT DRO >C28-C36	<10.0	10.0	10/08/2022	ND					

Surrogate: 1-Chlorooctane 92.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/05/2022  
 Reported: 10/11/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 3 (H224673-13)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2022	ND	2.31	116	2.00	4.75		
Toluene*	<0.050	0.050	10/09/2022	ND	2.16	108	2.00	4.22		
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	2.09	104	2.00	5.37		
Total Xylenes*	<0.150	0.150	10/09/2022	ND	6.37	106	6.00	5.59		
Total BTX	<0.300	0.300	10/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/10/2022	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	217	108	200	6.46	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	214	107	200	7.04	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 119 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/05/2022  
 Reported: 10/11/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 4 (H224673-14)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2022	ND	2.31	116	2.00	4.75		
Toluene*	<0.050	0.050	10/09/2022	ND	2.16	108	2.00	4.22		
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	2.09	104	2.00	5.37		
Total Xylenes*	<0.150	0.150	10/09/2022	ND	6.37	106	6.00	5.59		
Total BTX	<0.300	0.300	10/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/10/2022	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	217	108	200	6.46	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	214	107	200	7.04	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 107 % 45.3-161

Surrogate: 1-Chlorooctadecane 125 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/05/2022  
 Reported: 10/11/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 5 (H224673-15)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2022	ND	2.31	116	2.00	4.75	
Toluene*	<0.050	0.050	10/09/2022	ND	2.16	108	2.00	4.22	
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	2.09	104	2.00	5.37	
Total Xylenes*	<0.150	0.150	10/09/2022	ND	6.37	106	6.00	5.59	
Total BTX	<0.300	0.300	10/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/10/2022	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	217	108	200	6.46	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	214	107	200	7.04	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 108 % 45.3-161

Surrogate: 1-Chlorooctadecane 123 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/05/2022  
 Reported: 10/11/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 6 (H224673-16)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2022	ND	2.31	116	2.00	4.75		
Toluene*	<0.050	0.050	10/09/2022	ND	2.16	108	2.00	4.22		
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	2.09	104	2.00	5.37		
Total Xylenes*	<0.150	0.150	10/09/2022	ND	6.37	106	6.00	5.59		
Total BTX	<0.300	0.300	10/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/10/2022	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	217	108	200	6.46	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	214	107	200	7.04	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 96.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/05/2022  
 Reported: 10/11/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 7 (H224673-17)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2022	ND	2.31	116	2.00	4.75		
Toluene*	<0.050	0.050	10/09/2022	ND	2.16	108	2.00	4.22		
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	2.09	104	2.00	5.37		
Total Xylenes*	<0.150	0.150	10/09/2022	ND	6.37	106	6.00	5.59		
Total BTEx	<0.300	0.300	10/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/10/2022	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2022	ND	217	108	200	6.46	
DRO >C10-C28*	<10.0	10.0	10/08/2022	ND	214	107	200	7.04	
EXT DRO >C28-C36	<10.0	10.0	10/08/2022	ND					

Surrogate: 1-Chlorooctane 110 % 45.3-161

Surrogate: 1-Chlorooctadecane 123 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/05/2022  
 Reported: 10/11/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 8 (H224673-18)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2022	ND	2.31	116	2.00	4.75		
Toluene*	<0.050	0.050	10/09/2022	ND	2.16	108	2.00	4.22		
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	2.09	104	2.00	5.37		
Total Xylenes*	<0.150	0.150	10/09/2022	ND	6.37	106	6.00	5.59		
Total BTEx	<0.300	0.300	10/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/10/2022	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2022	ND	217	108	200	6.46	
DRO >C10-C28*	<10.0	10.0	10/08/2022	ND	214	107	200	7.04	
EXT DRO >C28-C36	<10.0	10.0	10/08/2022	ND					

Surrogate: 1-Chlorooctane 110 % 45.3-161

Surrogate: 1-Chlorooctadecane 125 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

---

Celey D. Keene, Lab Director/Quality Manager



(575) 393-2326 FAX (575) 393-2476

[illegible]

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





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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## BILL TO

## ANALYSIS REQUEST

P.O. #:

Company

Great Western Drilling

Attn: Dennis Pender

Address: 700 W. Louisiana Ave.

City: Midland

State: TX Zip: 79701

Phone #: 432-682-5241

Fax #:

Project Name: South Carter SA Unit #501

Project Location: UL / A Sec 7 T18S - R39E

Sampler Name: Jorge Valeriano

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H23473

11 SW1

12 SW2

13 SW3

14 SW4

15 SW5

16 SW6

17 SW7

18 SW8

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

Chloride

TPH

BTEX 8021

Yes

No

Add'l Phone #:

Fax Result:

Yes

No

Add'l Fax #:

REMARKS:

Email results to: pm@hungry-horse.com

dpender@gwdc.com

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

4.06/3.46

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

Relinquished By:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Sample Condition

Cool

Intact

Yes

No

Yes

No

CHECKED BY:

(Initials)

90.

Relinquished By:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Sample Condition

Cool

Intact

Yes

No

Yes

No

CHECKED BY:

(Initials)

90.

Relinquished By:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Sample Condition

Cool

Intact

Yes

No

Yes

No

CHECKED BY:

(Initials)

90.

Relinquished By:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Sample Condition

Cool

Intact

Yes

No

Yes

No

CHECKED BY:

(Initials)

90.

Relinquished By:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Sample Condition

Cool

Intact

Yes

No

Yes

No

CHECKED BY:

(Initials)

90.

Relinquished By:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Sample Condition

Cool

Intact

Yes

No

Yes

No

CHECKED BY:

(Initials)

90.

Relinquished By:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Sample Condition

Cool

Intact

Yes

No

Yes

No

CHECKED BY:

(Initials)

90.

Relinquished By:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Sample Condition

Cool

Intact

Yes

No

Yes

No

CHECKED BY:

(Initials)

90.

Relinquished By:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Sample Condition

Cool

Intact

Yes

No

Yes

No

CHECKED BY:

(Initials)

90.

Relinquished By:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Sample Condition

Cool

Intact

Yes

No

Yes

No

CHECKED BY:

(Initials)

90.

Relinquished By:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Sample Condition

Cool

Intact

Yes

No

Yes

No

CHECKED BY:

(Initials)

90.

Relinquished By:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Sample Condition

Cool

Intact

Yes

No

Yes

No

CHECKED BY:

(Initials)

90.

Relinquished By:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Sample Condition

Cool

Intact

Yes

No

Yes

No

CHECKED BY:

(Initials)

90.

Relinquished By:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Sample Condition

Cool

Intact

Yes

No

Yes

No

CHECKED BY:

(Initials)

90.

Relinquished By:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Sample Condition

Cool

Intact

Yes

No

Yes

No

CHECKED BY:

(Initials)

90.

Relinquished By:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Sample Condition

Cool

Intact

Yes

No

Yes

No

CHECKED BY:

(Initials)

90.

Relinquished By:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Sample Condition

Cool

Intact

Yes

No

Yes

No

CHECKED BY:

(Initials)

90.

Relinquished By:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Sample Condition

Cool

Intact

Yes

No

Yes

No

CHECKED BY:

(Initials)

90.

Relinquished By:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Sample Condition

Cool

Intact

Yes

No

Yes

No



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

---

October 31, 2022

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: SOUTH CARTER SA UNIT #501

Enclosed are the results of analyses for samples received by the laboratory on 10/26/22 11:54.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/26/2022  
 Reported: 10/31/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 - 2' (H225036-01)**

BTEx 8260B		mg/kg		Analyzed By: MS				S-05	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.86	92.9	2.00	0.962	
Toluene*	<0.025	0.025	10/29/2022	ND	1.82	91.0	2.00	2.50	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.89	94.4	2.00	0.623	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	5.80	96.7	6.00	0.847	
Total BTEX	<0.150	0.150	10/29/2022	ND					

Surrogate: Dibromofluoromethane 99.4 % 83.7-114

Surrogate: Toluene-d8 94.0 % 95.3-107

Surrogate: 4-Bromofluorobenzene 102 % 50.9-150

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/28/2022	ND	416	104	400	3.92	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2022	ND	220	110	200	0.785	
DRO >C10-C28*	<10.0	10.0	10/29/2022	ND	222	111	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	10/29/2022	ND					

Surrogate: 1-Chlorooctane 84.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/26/2022  
 Reported: 10/31/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 - 4' (H225036-02)**

BTX 8260B		mg/kg		Analyzed By: MS				S-05		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	10/29/2022	ND	1.86	92.9	2.00	0.962		
Toluene*	<0.025	0.025	10/29/2022	ND	1.82	91.0	2.00	2.50		
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.89	94.4	2.00	0.623		
Total Xylenes*	<0.075	0.075	10/29/2022	ND	5.80	96.7	6.00	0.847		
Total BTX	<0.150	0.150	10/29/2022	ND						

Surrogate: Dibromofluoromethane 94.8 % 83.7-114  
 Surrogate: Toluene-d8 94.3 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 96.3 % 50.9-150

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/28/2022	ND	416	104	400	3.92	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2022	ND	220	110	200	0.785	
DRO >C10-C28*	<10.0	10.0	10/29/2022	ND	222	111	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	10/29/2022	ND					

Surrogate: 1-Chlorooctane 81.5 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 96.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/26/2022  
 Reported: 10/31/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 - 2' (H225036-03)**

BTX 8260B		mg/kg		Analyzed By: MS				S-05	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.86	92.9	2.00	0.962	
Toluene*	<0.025	0.025	10/29/2022	ND	1.82	91.0	2.00	2.50	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.89	94.4	2.00	0.623	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	5.80	96.7	6.00	0.847	
Total BTX	<0.150	0.150	10/29/2022	ND					

Surrogate: Dibromofluoromethane 97.0 % 83.7-114  
 Surrogate: Toluene-d8 94.5 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 97.7 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/28/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2022	ND	220	110	200	0.785	
DRO >C10-C28*	<10.0	10.0	10/29/2022	ND	222	111	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	10/29/2022	ND					

Surrogate: 1-Chlorooctane 77.5 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 93.9 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/26/2022  
 Reported: 10/31/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 - 4' (H225036-04)**

BTX 8260B		mg/kg	Analyzed By: MS					S-05	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.86	92.9	2.00	0.962	
Toluene*	<0.025	0.025	10/29/2022	ND	1.82	91.0	2.00	2.50	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.89	94.4	2.00	0.623	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	5.80	96.7	6.00	0.847	
Total BTX	<0.150	0.150	10/29/2022	ND					

Surrogate: Dibromofluoromethane 97.4 % 83.7-114  
 Surrogate: Toluene-d8 92.7 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 99.4 % 50.9-150

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/28/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2022	ND	225	113	200	8.95	
DRO >C10-C28*	<10.0	10.0	10/29/2022	ND	229	115	200	24.0	
EXT DRO >C28-C36	<10.0	10.0	10/29/2022	ND					

Surrogate: 1-Chlorooctane 79.0 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 95.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/26/2022  
 Reported: 10/31/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 - 2' (H225036-05)**

BTX 8260B		mg/kg		Analyzed By: MS				S-05	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.86	92.9	2.00	0.962	
Toluene*	<0.025	0.025	10/29/2022	ND	1.82	91.0	2.00	2.50	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.89	94.4	2.00	0.623	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	5.80	96.7	6.00	0.847	
Total BTX	<0.150	0.150	10/29/2022	ND					

Surrogate: Dibromofluoromethane 96.2 % 83.7-114  
 Surrogate: Toluene-d8 93.3 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 99.0 % 50.9-150

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/28/2022	ND	416	104	400	3.92	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2022	ND	225	113	200	8.95	
DRO >C10-C28*	<10.0	10.0	10/29/2022	ND	229	115	200	24.0	
EXT DRO >C28-C36	<10.0	10.0	10/29/2022	ND					

Surrogate: 1-Chlorooctane 78.6 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 92.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/26/2022  
 Reported: 10/31/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 - 4' (H225036-06)**

BTEx 8260B		mg/kg		Analyzed By: MS				S-05	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.86	92.9	2.00	0.962	
Toluene*	<0.025	0.025	10/29/2022	ND	1.82	91.0	2.00	2.50	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.89	94.4	2.00	0.623	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	5.80	96.7	6.00	0.847	
Total BTEx	<0.150	0.150	10/29/2022	ND					

Surrogate: Dibromofluoromethane 95.1 % 83.7-114  
 Surrogate: Toluene-d8 93.5 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 98.6 % 50.9-150

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/28/2022	ND	416	104	400	3.92	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2022	ND	225	113	200	8.95	
DRO >C10-C28*	<10.0	10.0	10/29/2022	ND	229	115	200	24.0	
EXT DRO >C28-C36	<10.0	10.0	10/29/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/26/2022  
 Reported: 10/31/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 - 2' (H225036-07)**

BTX 8260B		mg/kg		Analyzed By: MS				S-05	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.86	92.9	2.00	0.962	
Toluene*	<0.025	0.025	10/29/2022	ND	1.82	91.0	2.00	2.50	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.89	94.4	2.00	0.623	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	5.80	96.7	6.00	0.847	
Total BTX	<0.150	0.150	10/29/2022	ND					

Surrogate: Dibromofluoromethane 99.1 % 83.7-114  
 Surrogate: Toluene-d8 91.7 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 100 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2022	ND	225	113	200	8.95	
DRO >C10-C28*	16.7	10.0	10/29/2022	ND	229	115	200	24.0	
EXT DRO >C28-C36	<10.0	10.0	10/29/2022	ND					

Surrogate: 1-Chlorooctane 88.3 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/26/2022  
 Reported: 10/31/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 - 4' (H225036-08)**

BTX 8260B		mg/kg	Analyzed By: MS					S-05	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.86	92.9	2.00	0.962	
Toluene*	<0.025	0.025	10/29/2022	ND	1.82	91.0	2.00	2.50	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.89	94.4	2.00	0.623	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	5.80	96.7	6.00	0.847	
Total BTX	<0.150	0.150	10/29/2022	ND					

Surrogate: Dibromofluoromethane 96.5 % 83.7-114  
 Surrogate: Toluene-d8 93.8 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 101 % 50.9-150

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2022	ND	225	113	200	8.95	
DRO >C10-C28*	18.8	10.0	10/29/2022	ND	229	115	200	24.0	
EXT DRO >C28-C36	<10.0	10.0	10/29/2022	ND					

Surrogate: 1-Chlorooctane 89.9 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/26/2022  
 Reported: 10/31/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 8 - 2' (H225036-09)**

BTX 8260B		mg/kg		Analyzed By: MS				S-05	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.86	92.9	2.00	0.962	
Toluene*	<0.025	0.025	10/29/2022	ND	1.82	91.0	2.00	2.50	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.89	94.4	2.00	0.623	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	5.80	96.7	6.00	0.847	
Total BTX	<0.150	0.150	10/29/2022	ND					

Surrogate: Dibromofluoromethane 93.7 % 83.7-114  
 Surrogate: Toluene-d8 92.9 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 97.5 % 50.9-150

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2022	ND	416	104	400	3.92	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2022	ND	225	113	200	8.95	
DRO >C10-C28*	13.6	10.0	10/29/2022	ND	229	115	200	24.0	
EXT DRO >C28-C36	<10.0	10.0	10/29/2022	ND					

Surrogate: 1-Chlorooctane 81.8 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/26/2022  
 Reported: 10/31/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 8 - 4' (H225036-10)**

BTX 8260B		mg/kg		Analyzed By: MS				S-05	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/30/2022	ND	1.88	94.1	2.00	4.67	
Toluene*	<0.025	0.025	10/30/2022	ND	1.82	91.2	2.00	0.572	
Ethylbenzene*	<0.025	0.025	10/30/2022	ND	1.87	93.7	2.00	0.643	
Total Xylenes*	<0.075	0.075	10/30/2022	ND	5.88	98.0	6.00	3.00	
Total BTX	<0.150	0.150	10/30/2022	ND					

Surrogate: Dibromofluoromethane 94.9 % 83.7-114  
 Surrogate: Toluene-d8 94.7 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 98.4 % 50.9-150

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2022	ND	416	104	400	3.92	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2022	ND	225	113	200	8.95	
DRO >C10-C28*	16.4	10.0	10/29/2022	ND	229	115	200	24.0	
EXT DRO >C28-C36	<10.0	10.0	10/29/2022	ND					

Surrogate: 1-Chlorooctane 93.7 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/26/2022  
 Reported: 10/31/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 9 - 2' (H225036-11)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/30/2022	ND	1.88	94.1	2.00	4.67	
Toluene*	<0.025	0.025	10/30/2022	ND	1.82	91.2	2.00	0.572	
Ethylbenzene*	<0.025	0.025	10/30/2022	ND	1.87	93.7	2.00	0.643	
Total Xylenes*	<0.075	0.075	10/30/2022	ND	5.88	98.0	6.00	3.00	
Total BTEx	<0.150	0.150	10/30/2022	ND					

Surrogate: Dibromofluoromethane 94.4 % 83.7-114  
 Surrogate: Toluene-d8 96.2 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 98.5 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/28/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2022	ND	225	113	200	8.95	
DRO >C10-C28*	18.9	10.0	10/29/2022	ND	229	115	200	24.0	
EXT DRO >C28-C36	<10.0	10.0	10/29/2022	ND					

Surrogate: 1-Chlorooctane 90.7 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 112 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/26/2022  
 Reported: 10/31/2022  
 Project Name: SOUTH CARTER SA UNIT #501  
 Project Number: NONE GIVEN  
 Project Location: GWD - UL/A SEC 7 T18S - R39E

Sampling Date: 10/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 9 - 4' (H225036-12)**

BTX 8260B		mg/kg	Analyzed By: MS					S-05	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/30/2022	ND	1.88	94.1	2.00	4.67	
Toluene*	<0.025	0.025	10/30/2022	ND	1.82	91.2	2.00	0.572	
Ethylbenzene*	<0.025	0.025	10/30/2022	ND	1.87	93.7	2.00	0.643	
Total Xylenes*	<0.075	0.075	10/30/2022	ND	5.88	98.0	6.00	3.00	
Total BTX	<0.150	0.150	10/30/2022	ND					

Surrogate: Dibromofluoromethane 96.3 % 83.7-114  
 Surrogate: Toluene-d8 92.2 % 95.3-107  
 Surrogate: 4-Bromofluorobenzene 100 % 50.9-150

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/28/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2022	ND	225	113	200	8.95	
DRO >C10-C28*	25.8	10.0	10/29/2022	ND	229	115	200	24.0	
EXT DRO >C28-C36	<10.0	10.0	10/29/2022	ND					

Surrogate: 1-Chlorooctane 91.2 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Hungry Horse LLC		P.O. #:		BILL TO		ANALYSIS REQUEST																																					
Project Manager: Daniel Dominguez		Company: Great Western Drilling																																									
Address: PO Box 1058		Attn: Dennis Pender																																									
City: Hobbs	State: NM	Zip: 88241	Address: 700 W. Louisiana Ave.																																								
Phone #: 575 393-3386	Fax #:	City: Midland		State: TX	Zip: 79701																																						
Project #:		Project Owner: Great Western Drilling																																									
Project Name: South Carter SA Unit #501		State: NM		Zip: 79701																																							
Project Location: U/L A Sec 7 T18S - R39E		Phone #: 432-682-5241																																									
Sampler Name: Eli Dominguez		Fax #:																																									
FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING																																					
Lab I.D. Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		Chloride		TPH		BTEX 8021											
H235036		1		G		1		X		X		X		X		X		X		X		X		10/24/22				X		X		X											
2		SP2-2'		G		1		X		X		X		X		X		X		X		X		10/24/22				X		X		X											
3		SP2-4'		G		1		X		X		X		X		X		X		X		X		10/24/22				X		X		X											
4		SP3-2'		G		1		X		X		X		X		X		X		X		X		10/24/22				X		X		X											
5		SP3-4'		G		1		X		X		X		X		X		X		X		X		10/24/22				X		X		X											
6		SP4-2'		G		1		X		X		X		X		X		X		X		X		10/24/22				X		X		X											
7		SP4-4'		G		1		X		X		X		X		X		X		X		X		10/24/22				X		X		X											
8		SP5-2'		G		1		X		X		X		X		X		X		X		X		10/24/22				X		X		X											
9		SP5-4'		G		1		X		X		X		X		X		X		X		X		10/24/22				X		X		X											
10		SP8-2'		G		1		X		X		X		X		X		X		X		X		10/24/22				X		X		X											
11		SP8-4'		G		1		X		X		X		X		X		X		X		X		10/24/22				X		X		X											
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Delivered By: (Circle One)		#13		Sample Condition		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Checked By: (Initials)																																			
Sampler - UPS - Bus - Other: - 3.1e/-2.7e		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		Checked By: (Initials)																																			
† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476																																											





## Page 16 of 16

Released to Imaging: 2/20/2023 8:09:00 AM



**Attachment V**  
**NMOCD Form C-141 Closure Page**

Incident ID	nJXK1613933289
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: Dennis Pender Title: Environmental

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

email: dpender@gwdc.com Telephone: 432-682-5241 x 141

### OCD Only

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

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Ashley Maxwell Date: 2/20/2023

Printed Name: Ashley Maxwell Title: Environmental Specialist

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS  
  
Action 155292

CONDITIONS

Operator:  GREAT WESTERN DRILLING CO P.O. Box 1659 Midland, TX 79701	OGRID:  9338
	Action Number:  155292
	Action Type:  [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	2/20/2023