Form C-141

Page 6

State of New Mexico
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.

	TOTAL TO THIS IN THE PARTY.
Closure Report Attachment Checklist: Each of the following its	ems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.11	1 NMAC
Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)
□ Description of remediation activities	
may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and rem human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulative restore, reclaim, and re-vegetate the impacted surface area to the confaccordance with 19.15.29.13 NMAC including notification to the OC	C-141 report does not relieve the operator of responsibility for ions. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.  Title: Environmental
OCD Only	
Received by: OCD	Date: 11/1/2022
Closure approval by the OCD does not relieve the responsible party of remediate contamination that poses a threat to groundwater, surface was party of compliance with any other federal, state, or local laws and/or	of liability should their operations have failed to adequately investigate and eater, human health, or the environment nor does not relieve the responsible regulations.
Closure Approved by:Ashley Maxwell	Date: 2/20/2023
Closure Approved by:	Title: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

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

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Attachment I – Site Photographs

Attachment II – Depth to Groundwater

Attachment III - Field Data

Attachment IV – Laboratory Analytical Reports

Attachment V – NMOCD Form C-141 Closure Page

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



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

On 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.



#### **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**

Received by OCD: 11/3/2022 1:36:29 PM Page 10 of 118 00873 POD5 L-008781POD4 E Rose Rd E Rose Rd E Rose Rd L-04780-S L-01748

#### 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

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



1:9027

Received by OCD: 11/3/2022 1:36:29 PM Page 11 of 118



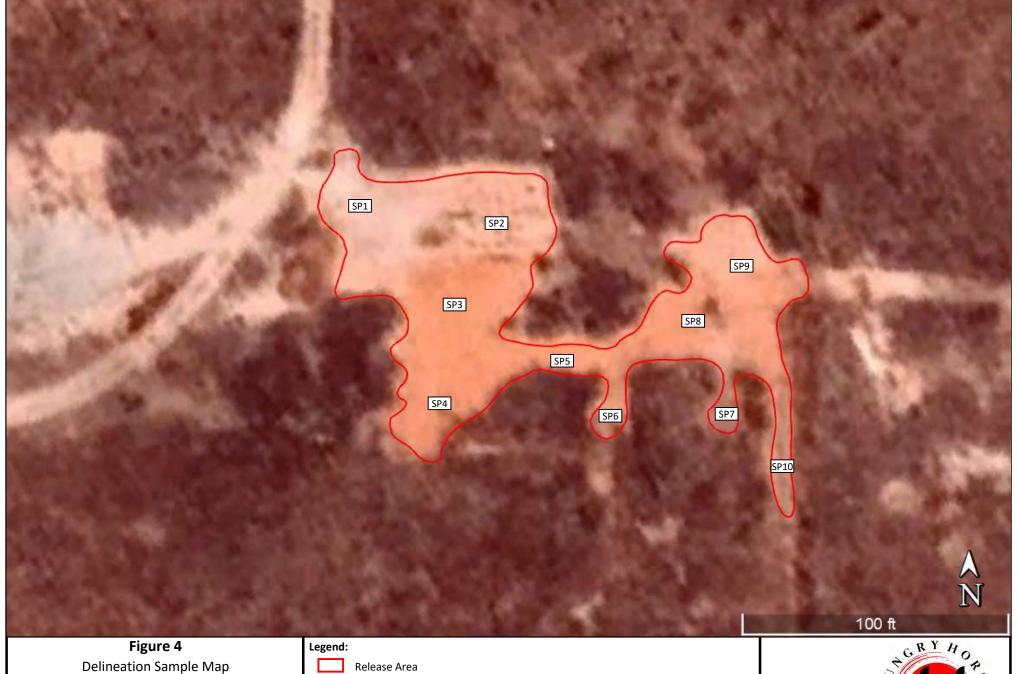
**USGS Well Locations Map Great Western Drilling** South Carter SA Unit #501 GPS: 32.768517, -103.076546 Lea County

South Carter SA Unit #501 Location

**USGS Well Location** 

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





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

SP1 **Delineation Sample Location** 

> Drafted: dd Checked: bw 8/22/22 Date:



Figure 5

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

Excavated Areas

FL1 Composite Confirmation Sample Location

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

### **Table**

#### TABLE 1

# Summary of Soil Sample Laboratory Analytical Results Great Western Drilling South Carter SA Unit #501

NMOCD Ref. #: nJXK1613933289

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	146	32.0
SP1- 3'	8/22/22	3	Excavated	<0.050	<0.300	<10.0	473	473	309	782	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
	5/3/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SP2	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
	5/3/22	Surf	In-Situ	<0.050	<0.300	<10.0	10.5	10.5	20.6	31.1	<16.0
SP3	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
	5/3/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP4	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
	5/3/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP5	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	1,352	<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	505	<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
0.7	5/3/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	19.2	<30.0	<16.0
SP8	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
	5/3/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	14.1	<30.0	32.0
SP9	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	430	<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
FL7 FL8	10/5/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL8 FL9	10/5/22	4	In-Situ 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 In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW1		2			<0.300	<10.0	<10.0	<20.0		<30.0	
	10/5/22		In-Situ	<0.050					<10.0		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
NMOCD (	Closure Crite	ria		10	50	-	-	N/A	-	100	600

#### NOTES:

- = Sample not analyzed for that constituent.

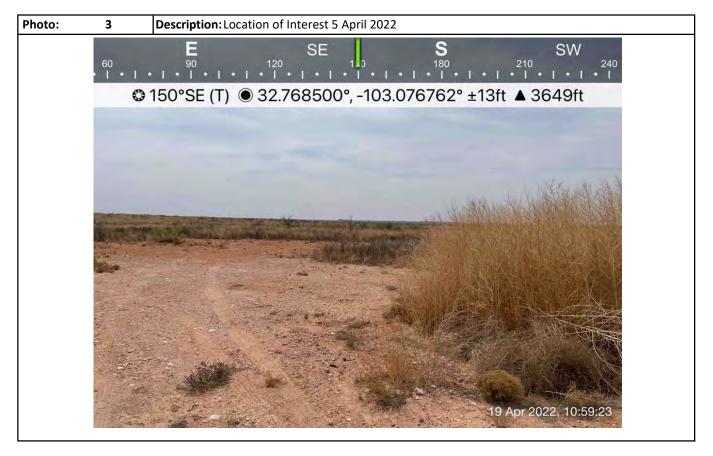
 $\boldsymbol{\mathsf{Bold}}$  text denotes a concentration that exceeds the NMOCD Closure Criteria

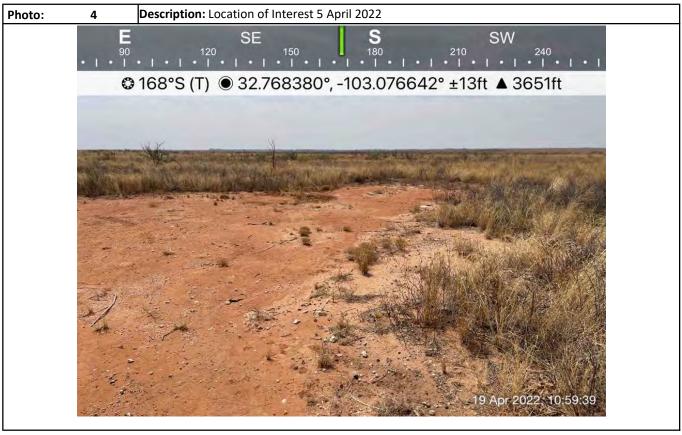
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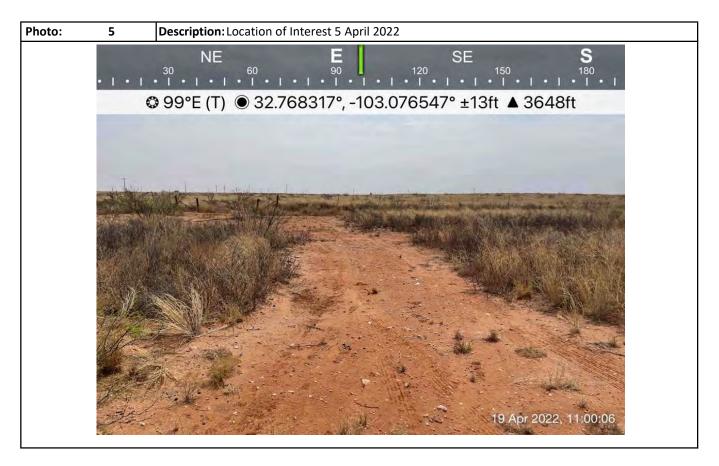
## Attachment I Site Photographs

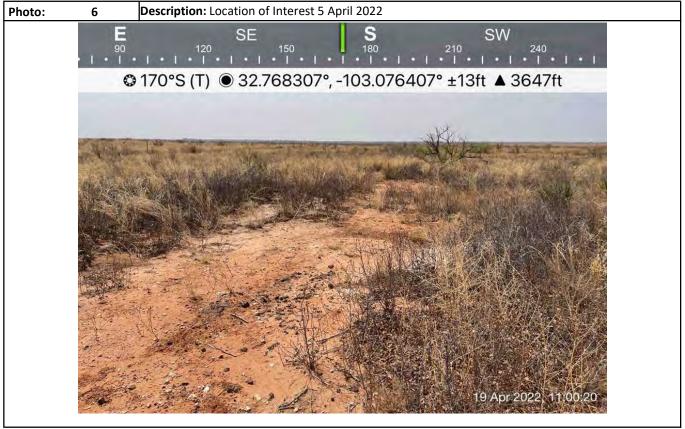


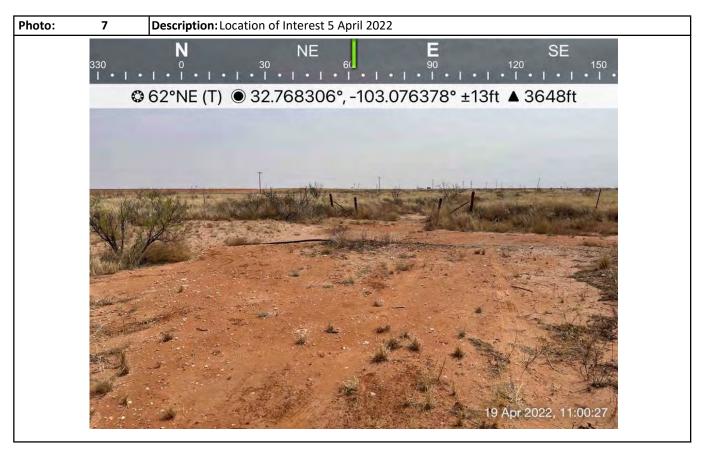




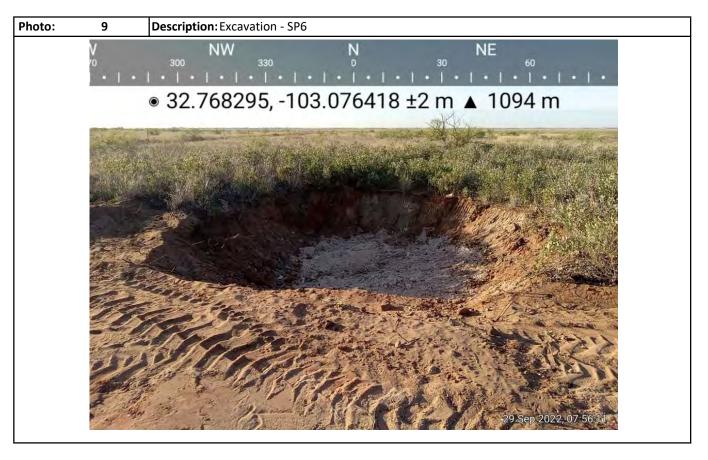




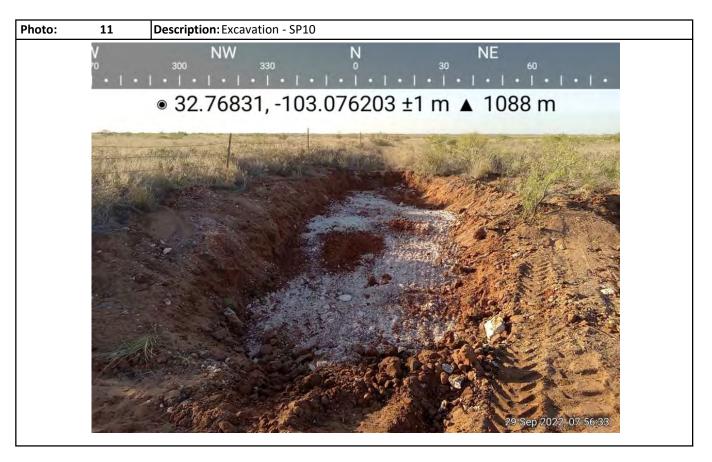








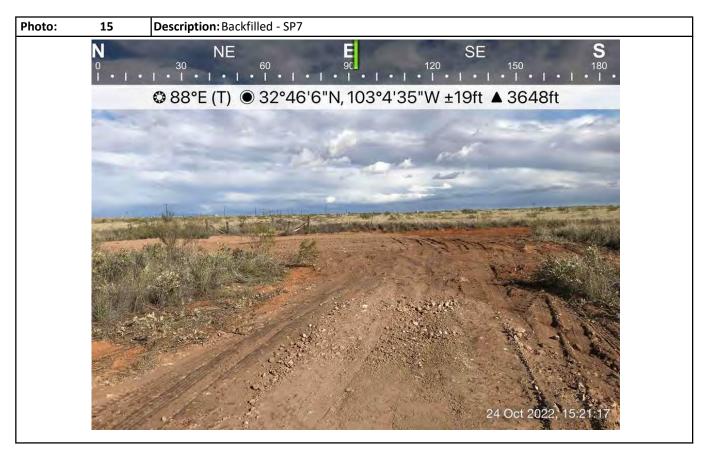


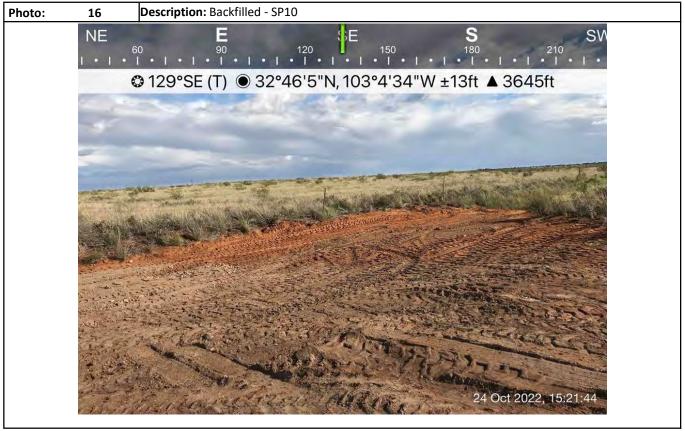




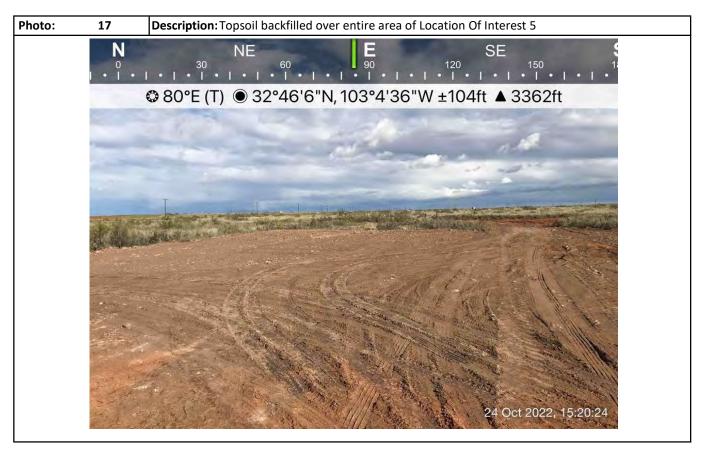


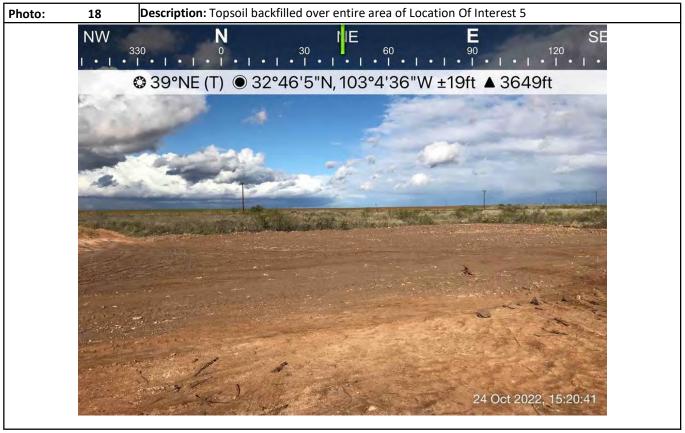






#### **Photographs**





# Attachment II Depth to Groundwater



## Wells with Well Log Information

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

O=orphaned, C=the file is

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

(NAD83 UTM in meters)

	closed)			(quarters	are sma	llest to	larges	t)	(NAD83	3 UTM in meters)				(in fee	et)	
POD Number <u>L 06469</u>	Code	POD Subbasin L	County LE	Source Shallow		4 Sec			X 680088	Y 3627438*	Distance Start Date 190 01/31/1969	Finish Date 02/01/1969	Log File Date 02/04/1969	Depth Well 120	Depth Water Driller 85 MURRELL ABBOTT	License Number 46
<u>L 04571 S3</u>		L	LE	Shallow	4 2	2 07	18S	39E	680096	3627035*	236 08/02/2002	08/05/2002	08/09/2002	223	120	1498
L 00873 POD6		L	LE	Shallow	3 4	1 06	18S	39E	679888	3627438*	326 05/04/2001	05/05/2001	05/10/2001	230	115 ROBINSON, B.J. (LD)	1498
L 04526	R	L	LE	Shallow	1 1 1	3 20	18S	39E	680280	3626939	343 11/08/1960	11/10/1960	01/17/1961	100	60 JE BARTON	14
L 00873 POD4		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
L 11965 POD1		L	LE	Shallow	1	2 07	188	39E	680525	3627337	369 09/27/2006	09/27/2006	10/17/2006	201	EADES, ALAN	1044
L 10528 POD2		L	LE	Shallow	2 1	2 07	18S	39E	679761	3627293	403 08/16/2020	08/17/2020	09/22/2020	220	120 FRIESSEN, JACOBOIEL.NER	1753
L 04780 POD2		L	LE	Shallow	2 1	2 07	18S	39E	679694	3627228*	470 05/20/1980	05/24/1980	07/09/1980	202	91	576
L 10528	R	L	LE	Shallow	2 1	2 07	188	39E	679694	3627228*	470 10/19/1995	10/19/1995	11/06/1995	170	78 EADES, ALAN	1044
L 03823		L	LE	Shallow	1 2	1 08	18S	39E	680700	3627250*	537 03/25/1958	03/26/1958	03/26/1958	135	70	46
<u>L 01748</u>		L	LE	Shallow	2 3	1 08	18S	39E	680505	3626840*	543 12/01/1956	12/03/1956	12/18/1956	125	48 FULLINGIM, M.L.	124
L 00873 POD5		L	LE	Shallow		4 06	188	39E	679789	3627733*	601 02/23/2000	03/01/2000	04/03/2000	230	110 MARSH, KENNETH R.	586
L 03494 POD5		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
L 03494 POD5	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
L 03494 POD6		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
L 03494 POD6	R	L	LE	Shallow	2 3	4 06	188	39E	679687	3627631*	602 01/28/1979	02/08/1979	03/14/1979	170	75 VAN NOY, W.L.	208
<u>L 08850</u>		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
<u>L 03933</u>		L	LE	Shallow		4 06			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

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

6/8/22 11:55 AM WELLS WITH WELL LOG INFORMATION



## **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\*

\_\_\_\_\_

**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 Rcv Date: Source: Shallow

Pump Type: Pipe Discharge Size: Estimated Yield:

Casing Size: 5.00 Depth Well: 120 feet Depth Water: 85 feet

Water Bearing Stratifications: Top Bottom Description

85 120 Other/Unknown

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.

10/20/22 11:19 AM

<sup>\*</sup>UTM location was derived from PLSS - see Help



## **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** 

X

L 04571 S3

Q64 Q16 Q4 Sec Tws Rng 07 18S 39E

680096 3627035\*

**Driller License:** 

**Drill Start Date:** 

1498

**Driller Name:** 

**Driller Company:** 

ROBINSON DRILLING

08/02/2002

**Drill Finish Date:** 

08/05/2002

Plug Date:

Shallow

Log File Date:

08/09/2002

PCW Rcv Date:

08/05/2008

Source:

**Pump Type:** 

**SUBMER** 

Pipe Discharge Size:

**Estimated Yield:** 

200 GPM

**Casing Size:** 

10.75

Depth Well:

223 feet

**Depth Water:** 

120 feet

Water Bearing Stratifications:

**Top Bottom Description** 

125

162 Sandstone/Gravel/Conglomerate

199

Sandstone/Gravel/Conglomerate

**Casing Perforations:** 

**Bottom** Top

123 223

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10/20/22 11:20 AM

<sup>\*</sup>UTM location was derived from PLSS - see Help



## **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

679888

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

L 00873 POD6 3 4 4 06 18S 39E

X Y

3627438\*

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

**Drill Start Date:** 05/04/2001 **Drill Finish Date:** 05/05/2001 **Plug Date:** 

**Log File Date:** 05/10/2001 **PCW Rcv Date:** Source: Shallow

Pump Type: Pipe Discharge Size: Estimated Yield:

Casing Size: 10.75 Depth Well: 230 feet Depth Water: 115 feet

Meter Number: 19627 Meter Make: MCCROMETER

Meter Serial Number:GP14-10026-4Meter Multiplier:100.0000Number of Dials:6Meter Type:Diversion

Unit of Measure: Gallons Return Flow Percent:

**Usage Multiplier:** Reading Frequency: Quarterly

**Meter Readings (in Acre-Feet)** 

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

**YTD Meter Amounts:	Year	Amount
	2016	6.793
	2017	0
	2018	0
	2019	0
	2020	0
	2021	0

\*UTM location was derived from PLSS - see Help

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10/20/22 12:08 PM



## **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

 $\mathbf{X}$ 

L 04526 POD2

3 20 18S 39E 680347

3623243

**Driller License:** 

1611

**Driller Company:** 

GOERTZEN DRILLING

**Driller Name:** 

**Drill Start Date:** 

11/03/2008

**Drill Finish Date:** 

11/04/2008

**Plug Date:** 

Source: Shallow

Log File Date:

11/14/2008

**PCW Rcv Date:** 

**Estimated Yield:** 

**Pump Type: Casing Size:** 

6.00

Pipe Discharge Size: Depth Well:

229 feet

Depth Water:

**Casing Perforations:** 

Top Bottom

169 229

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6/1/22 2:55 PM



## **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

L 00873 POD4

05 18S 39E

 $\mathbf{X}$ 680391 3627546\*



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

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

12.75

**Drill Start Date:** 02/23/2000 **Drill Finish Date:** 

03/01/2000

Plug Date:

Shallow

Log File Date:

04/20/2000

**PCW Rcv Date:** 

Source:

**Pump Type: Casing Size:**  Pipe Discharge Size: Depth Well:

230 feet

**Estimated Yield: Depth Water:** 

110 feet

Water Bearing Stratifications:

**Top Bottom Description** 

182 Sandstone/Gravel/Conglomerate Sandstone/Gravel/Conglomerate

196 226 Sandstone/Gravel/Conglomerate

**Casing Perforations:** 

Top Bottom

175

188

110 230

**Meter Number:** 19625 Meter Make:

**MCCROMETER** 

Meter Serial Number: GP14-10027-4

Meter Multiplier:

100,0000

**Number of Dials:** 

**Meter Type:** 

Diversion

**Unit of Measure: Usage Multiplier:**  Gallons

**Return Flow Percent:** 

**Reading Frequency:** 

Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount Onli
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

\*\*YTD Meter Amounts: Year

Amount

2016

16.804

2017	5.332
2018	5.284
2019	16.232
2020	7.612
2021	0

<sup>\*</sup>UTM location was derived from PLSS - see Help

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6/1/22 2:56 PM



## **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

 $\mathbf{X}$ 

L 11965 POD1 07 18S 39E 680525 3627337

**Driller License:** 1044 **Driller Company:** EADES WELL DRILLING & PUMP SERVICE

**Driller Name:** EADES, ALAN

**Drill Start Date:** 09/27/2006

5.75

**Drill Finish Date:** 

09/27/2006 **Plug Date:** 

Log File Date:

10/17/2006 **PCW Rcv Date:**  Source:

Shallow

**Pump Type: Casing Size:**  Pipe Discharge Size:

201 feet

Depth Water:

**Estimated Yield:** 

Water Bearing Stratifications: Top Bottom Description

Depth Well:

Sandstone/Gravel/Conglomerate 133 196 Sandstone/Gravel/Conglomerate

**Casing Perforations:** 

Top Bottom

161 201

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6/1/22 2:50 PM



## **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

20C7C L 10528 POD2

18S 39E 07

679761 3627293

**Driller License: Driller Company:** VANGUARD WATER WELLS 1753

**Driller Name:** FRIESSEN, JACOBOIEL.NER

**Drill Start Date:** 08/16/2020 **Drill Finish Date:** 

08/17/2020 Plug Date:

Log File Date:

09/22/2020

PCW Rcv Date:

Source:

Shallow

**Pump Type:** 

Pipe Discharge Size:

**Estimated Yield:** 

120 feet

**Casing Size:** 

5.00

Depth Well:

220 feet

**Depth Water:** 

Water Bearing Stratifications: **Top Bottom Description** 

> 75 Sandstone/Gravel/Conglomerate 191 Sandstone/Gravel/Conglomerate

> 198 Sandstone/Gravel/Conglomerate

**Casing Perforations:** 

Top Bottom

220 180

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10/20/22 12:09 PM



# **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

L 04780 POD2 07 18S 39E 679694 3627228\*

**Driller License:** 576 **Driller Company:** 

STONE, T.J.

**Driller Name:** 

05/20/1980

**Drill Finish Date:** 

05/24/1980

Plug Date:

Log File Date:

**Drill Start Date:** 

07/09/1980

PCW Rcv Date:

Shallow

Source: **Estimated Yield:** 

**Pump Type:** 

Pipe Discharge Size:

75 GPM

**Casing Size:** 

6.63

Depth Well:

202 feet

Depth Water:

91 feet

Water Bearing Stratifications:

**Top Bottom Description** 

125

Shallow Alluvium/Basin Fill

200

202 Shallow Alluvium/Basin Fill

**Casing Perforations:** 

**Bottom** Top

> 70 200

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11/1/22 10:02 AM

<sup>\*</sup>UTM location was derived from PLSS - see Help



# **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

**Q64 Q16 Q4 Sec Tws Rng**1 2 1 08 18S 39E

X Y

680700 3627250\*

Driller License: 46 Driller Company: ABBOTT BROTHERS COMPANY

**Driller Name:** 

L 03823

Drill Start Date:03/25/1958Drill Finish Date:03/26/1958Plug Date:03/23/1960Log File Date:03/26/1958PCW Rcv Date:Source:ShallowPump Type:Pipe Discharge Size:Estimated Viold:

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

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6/1/22 2:50 PM

<sup>\*</sup>UTM location was derived from PLSS - see Help



# **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

L 01748

08 18S 39E 680505 3626840\*

**Driller License:** 124 **Driller Company:** 

FULLINGIM, M.L.

**Driller Name:** 

FULLINGIM, M.L.

Water Bearing Stratifications:

**Drill Finish Date:** 

12/03/1956 Plug Date:

**Drill Start Date:** Log File Date:

12/01/1956 12/18/1956

Shallow

**PCW Rcv Date:** 

Depth Well:

Source: **Estimated Yield:** 

**Pump Type:** 

Pipe Discharge Size:

125 feet Depth Water:

48 feet

**Casing Size:** 

Top Bottom Description 63 Shallow Alluvium/Basin Fill

48 87

105 Shallow Alluvium/Basin Fill

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6/1/22 2:51 PM

<sup>\*</sup>UTM location was derived from PLSS - see Help



# **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

679789

Well Tag **POD Number**  Q64 Q16 Q4 Sec Tws Rng

L 00873 POD5

06 18S 39E

3627733\*

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

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

**Drill Start Date:** 02/23/2000

12.75

**Drill Finish Date:** 

03/01/2000

Plug Date:

Source:

Shallow

Log File Date: Pump Type:

04/03/2000

**PCW Rcv Date:** Pipe Discharge Size:

**Estimated Yield:** 

**Casing Size:** 

Depth Well:

230 feet

Depth Water:

110 feet

Water Bearing Stratifications:

Top Bottom Description

175 182 Sandstone/Gravel/Conglomerate 188 Sandstone/Gravel/Conglomerate

196 226 Sandstone/Gravel/Conglomerate

**Casing Perforations:** 

Top Bottom

230 110

19626 Meter Number:

Meter Make:

**MCCROMETER** 

Meter Serial Number: GP14-10028-4

Meter Multiplier:

100.0000

**Number of Dials:** 6 **Meter Type:** 

Diversion

Unit of Measure: **Usage Multiplier:**  Gallons

**Return Flow Percent:** 

Reading Frequency: Quarterly

Meter Readings (in Acre-Feet)

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

0

Mtr Amount Online

\*\*YTD Meter Amounts: Year Amount

> 2016 2017

174 A

174 A

dd

dd

0

0

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

01/01/2021

04/01/2021

2020

2021

2018 0	
2019 0	
2020 0	
2021 0	

<sup>\*</sup>UTM location was derived from PLSS - see Help

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11/1/22 10:04 AM



# **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 S

Q64 Q16 Q4 Sec Tws Rng

X Y

L 03494 POD5

2 3 4 06 18S 39E

679687 3627631\*

Driller License: 46 Driller Company:

ABBOTT BROTHERS COMPANY

**Driller Name:** ABBOTT, MURRELL

**Drill Start Date:** 03/01/1978

**Drill Finish Date:** 

03/17/1978

Plug Date:

Log File Date:

03/27/1978

PCW Rcv Date:

Depth Well:

02/15/1982

Source:

Shallow

Pump Type: Casing Size: **SUBMER** 

Pipe Discharge Size:

200 feet

Estimated Yield: Depth Water:

90 feet

Water Bearing Stratifications:

7.00

Top Bottom Description

3

90 200 Other/Unknown

**Casing Perforations:** 

Top Bottom

173 200

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11/1/22 10:05 AM

<sup>\*</sup>UTM location was derived from PLSS - see Help



# **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

2 3 4 06 18S 39E

**X Y** 679687 3627631\*

**Driller License:** 208 **Driller Company:** VAN NOY, W.L.

**Driller Name:** VAN NOY, W.L.

L 03494 POD6

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

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11/1/22 10:06 AM

<sup>\*</sup>UTM location was derived from PLSS - see Help



# **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

L 08850

18S 39E 07

679494 3627228\*

**Driller License:** 897 **Driller Company:** 

"BUFORD, O.C. ""ROCKY""

**Driller Name:** 

**Drill Start Date:** 

BUFORD, O.C. "ROCKY"

07/06/1982

6.00

**Drill Finish Date:** 

07/09/1982

Plug Date:

Shallow

Log File Date:

07/23/1982

PCW Rcv Date:

Depth Well:

Source:

**Pump Type: Casing Size:**  Pipe Discharge Size:

**Estimated Yield:** Depth Water:

65 feet

Water Bearing Stratifications:

**Top Bottom Description** 

150 feet

65

150 Other/Unknown

**Casing Perforations:** 

Top **Bottom** 

144 150

\*UTM location was derived from PLSS - see Help

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11/1/22 10:07 AM



# **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

 $\mathbf{X}$ 

L 03933

18S 39E 06

679982 3627942\*

**Driller License:** 124 **Driller Company:** 

FULLINGIM, M.L.

**Driller Name:** 

FULLINGIM, M.L.

**Drill Finish Date:** 

09/12/1963 Plug Date:

**Drill Start Date:** Log File Date:

09/07/1963 01/23/1964

**PCW Rcv Date:** 

Source:

Shallow

**Pump Type:** 

Pipe Discharge Size:

**Estimated Yield:** 

**Casing Size:** Depth Well: 160 feet

Depth Water: 53 feet

Water Bearing Stratifications:

**Top Bottom Description** 

53 Sandstone/Gravel/Conglomerate

117 160 Sandstone/Gravel/Conglomerate

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

<sup>\*</sup>UTM location was derived from PLSS - see Help



**USGS Home Contact USGS** Search USGS

**National Water Information System: Web Interface** 

**USGS Water Resources** 

Data Category: **∨** GO Groundwater United States

### Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> 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 (N100HGHPLN) national aquifer.

This well is completed in the Ogallala Formation (1210GLL) 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	100.55	3543.75	NAVD88	1	Z		
1984-01-04		D	72019	100.25	2541.75	NOVESS	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		D	72019	101.14			1	Z		
1986-01-09		D	62610		3540.80	NGVD29	1	Z		
1986-01-09		D	62611		3541.91	NAVD88	1	Z		
1986-01-09		D	72019	102.09			1	Z		
1987-01-07		D	62610		3540.02	NGVD29	1	Z		
1987-01-07		D	62611		3541,13	NAVD88	1	Z		
1987-01-07		D	72019	102.87			1	Z		
1988-01-08		D	62610		3539.19	NGVD29	1	Z		
1988-01-08		D	62611		3540.30	NAVD88	1	Z		
1988-01-08		D	72019	103.70			1	Z		
1989-01-04		D	62610		3538.67	NGVD29	1	Z		
1989-01-04		D	62611		3539.78	NAVD88	1	Z		
1989-01-04		D	72019	104.22			1	Z		
1990-01-03		D	62610		3538.22	NGVD29	1	Z		
1990-01-03		D	62611		3539.33	NAVD88	1	Z		
1990-01-03		D	72019	104.67			1	Z		
1991-01		М	62610			NGVD29	0	Z		
1991-01		М	62611			NAVD88	0	Z		
1991-01		М	72019				0	Z		
1992-01		М	62610			NGVD29	0	Z		
1992-01		М	62611			NAVD88	0	Z		
1992-01		М	72019				0	Z		
1993-01-05		D	62610			NGVD29	0	Z		
1993-01-05		D	62611			NAVD88	0	Z		
1993-01-05		D	72019				0	Z		

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	М	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	0	Obstructed
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	А	Approved for publication Processing and review completed.

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U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels

USA.gov

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2022-06-01 15:59:38 EDT 0.3 0.27 nadww01

# Attachment III Field Data

### **Hungry Horse, LLC**

### Sample Log

Project: South Carter SA Unit #501

Latitude: 32.768517 Longitude: -103.076546 Date: <u>5/3/22</u>
Sampler: <u>B. Well S</u>

Sample ID	Depth	PID/Odor	Chloride	GPS
SPI	Surf	WIR	1.6= 32+4=128	
	•	NIA	2.4 = 65 x 4 = 260	
	2'		.02×1000=200	
	3'	NIA Ja/a	2.0 250 x4 = 200	
	Ĭ Ľ	N/a		
5p2	Surf	NIA	1.8= 38 X4=152	
•	ľ	h/n	1.6 = 32×4=128	
	2'	WIA	4100	
	3'	NIA	4100	
	4,	NIA n/U	4100	
503	Surf	WIA	4100	
	,	NIA	1.8=43x4=17a	
	2'	WIA	109 x1000 = 90	
	31	NIA	14=30×4=120 4100	
	Ĭ Ú'	WIA	4100	
5p4	Surf	WIA	1.8= 38 x4=152	
.A	1'	n/a	2.4 = 65 x 4 = 260	
	2'	NIA	1.6= 32+4=128	
	3'	WIA	4100	
	Ŭ	NIA	4100	
505	Surf	NIA	1.6 = 32×4=128	
	ľ	n/U	1.8= 43× 4=170	
	2'	N/a	14=30×4=100	
	3'	-	4100	
	4'	WIA	4100	W
506	SWF	10/1 2	3.0=88×4=352	
it:	1'	Yes	,38 × 1000 = 380	
	2'	405	. 30 × 1000 = 309	
	3,	11/01/00:5	430 YLDOG = 700	
	Tű	h/n'	2.4 = 65 x 4 = 260	
Sp7	Surf	14 27	2.4 = 65 x 4 = 260 11.6 = 32x 4 = 128	
•	1'	TPH9	2.0250x4=200	
	2'	yes	.09 ×1000 = 90	
	3'	n/u	$.30 \times 1000 = 200$	
	4'	n/U	109×1000= 90	
		71770		<del></del>

Sample Point = SP1 @ ## etc

Floor = FL1 etc

Sidewall = SW1 etc

Horizontal = HZ1 etc

Refusal = SP1 @ 4'-R

**GPS Sample Points, Center of Comp Areas** 

Test Trench = TT1 @ ##

Resamples = SP1b @ 5' or SW #1b

Stockpile = Stockpile #1

### **Hungry Horse, LLC**

### Sample Log

Project: South Carter SA Unit #501

Latitude: 32.768517

Longitude: -103.076546

Date:

5/3/22 B-Wells Sampler:

Sample ID	Depth	PID/Odor	Chloride	GPS
508	Sure	NIA ?	4100	
nt/	1,	NIA	14=30×4=120 1.8=43×4 170 (100	
	2'	n/U	1.8=43×4 170	
	31	WIA	Z100	
	Ú'	NIA	100	
Sp9	SUFF	NIA ?	100 2.0 = 45 × 4 = 180	
8 8	ľ		<u> </u>	
	3'	N/A N/U		
		n/U N/a TPH1	4100	
	4'	N/a	2100	
Sp10	SUFF	TPHI	4100	
	h,		.23 x1000 = 230	
	Zi	405	41 x 1000 = 410	
	3	yos Na	41x1000=410 2.8=83x4=332 2.6=93x4=372	
	u'	n/a	2.6=93×4=372	
	J			
			•	
		1		

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

### **Hungry Horse, LLC**

### Sample Log

Project: South Carter SA Unit #501

Date: 10/5/22
Sampler: Jorge Valenana Latitude: 32.768517 Longitude: -103.076546

Sample ID	Depth	PID/Odor		GPS
FLI	4'	N/A	2.8=83×4=332	
FL 2	4,	N/A	2.6=74×4=296	
凡 3	4'	NIA	2.8=83x <u>4=33</u> 2	
FL 4	42	N/A	2,2=57x4=228	
FL 5	4 <sup>1</sup>	NIA	191×1000 = 90	
FL 6	Ϋ́	N/A	1.8=43×4=172	
FL 7	41	N/A	115*1000=150	
FL 8	4'	N/A	20-50×4=200	
FL 9	ч'	N/A	J.O=50x4=200	
FL 10	Н'	N/A	16=36x4=149	
SW 1	ျ	∧J/A	16=36×4=144	
2(4) 9	2'	NA	18=43x4=172	
II 3	2'	N/A	26=74×4=296	
5W 4	2'	N/A	2.0~50*4-200	
FW 5	2'	N/A	222/0002220	
2m 6	2'	NIA	1,8=43x4=170	
Sw 7	2'	N/A	1.6=36×9=144	
5W 8	3	N/A	2.0=50×4=200	
Sample Boint - SB1			Harizantal - U71 ate	Took Turnish - TT1 @ MM

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



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



### 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)

BTEX 8021B	mg/	/kg	Analyze	d 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	% 69.9-14	0						
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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	88.1	% 59.5-14	2						

### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### 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 2 (H221850-02)

BTEX 8021B	mg	/kg	Analyze	ed 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	% 69.9-14	0						
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	Analyze	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	73.9	% 59.5-14	22						

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\*=Accredited Analyte

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Celey D. Kreine



### 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 3 (H221850-03)

BTEX 8021B	mg	/kg	Analyze	ed 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	74.7	% 59.5-14	2						

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Celey D. Kreine



### 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 4 (H221850-04)

BTEX 8021B	mg	/kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	75.4	% 59.5-14	2						

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Celey D. Keene



### 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 5 (H221850-05)

BTEX 8021B	mg	/kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	75.4	% 59.5-14	2						

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Celey D. Keene



### 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 6 (H221850-06)

BTEX 8021B	mg	/kg	Analyze	ed 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	99.5	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	171	% 59.5-14	2						

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\*=Accredited Analyte

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Celey D. Keine



### 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: Tamara Oldaker NONE GIVEN Sample Received By:

Project Location: GWD - UL/A SEC 7 T18S - R39E

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

BTEX 8021B	mg/	kg	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	210 9	% 59.5-14	2						

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Celey D. Keine



### 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 8 (H221850-08)

BTEX 8021B	mg,	/kg	Analyze	ed 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	81.9	% 59.5-14	22						

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Celey D. Keene



### 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 Tamara Oldaker Project Number: NONE GIVEN Sample Received By:

Project Location: GWD - UL/A SEC 7 T18S - R39E

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

BTEX 8021B	mg/	kg	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	80.6	% 59.5-14	2						

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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 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 10 (H221850-10)

BTEX 8021B	mg	/kg	Analyze	d 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	% 69.9-14	10						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	26						
Surrogate: 1-Chlorooctadecane	122	% 59.5-14	12						

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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

ecovery.

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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Celeg D. Freene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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L		client for the etion of the applicable	the	hall be limited by Cardina	other based in contract or tort, shall ess made in writing and received by	ased in co	hether b	im arising who	nts exclusive remedy for any claim ause whatsoever shall be deemed	8 8	nalyses. All claims including those for negligence and any other or	including th	alyses. All claims
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_			Midland	City:		Great Western Drilling	Veste	Great 1		Project Owner:			Project #:
_		ana Ave.	s: 700 W. Louisiana	Address:						Fax #:	575 393-3386	575	Phone #:
			Dennis Pender	Attn:		241	88241	Zip:	MN	State: N		Hobbs	City: H
		n Drilling	Iny Great Western Drilling	Company							PO Box 1058	PO	es
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of 13	-OF-CUSTODY AND ANALYSIS REQUEST	CHAIN-							es	oratories	abora		1



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



### 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	141	% 46.3-17	8						

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Celey D. Keene



### Analytical Results For:

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

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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

Applyzed By: 1H /

Project Location: GWD - UL/A SEC 7 T18S - R39E

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

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	102	% 46.3-17	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### 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

Applyzed By: 1H /

Project Location: GWD - UL/A SEC 7 T18S - R39E

ma/ka

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

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	ea 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	109	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed 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	Analyze	ed 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	94.8	% 46.3-17	<i>'8</i>						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### 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 Tamara Oldaker Sample Received By:

### 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 9	69.9-14	0						
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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	104 9	6 46.3-17	8						

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Celey D. Keene



### **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.

matrix interrerence 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

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Celey D. Keine

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

7



J 승 L an N	Hungry Horse LL Daniel Domingue ox 1058	e. NM	Zip:	8	88241				P.O. #: Compa	P.O. #: Company Attn: Der	De	BI BI	BILL TO  Great Western Drilling Dennis Pender	Drilling					A		ANALISIS	7.00
ne #:	575 393-3386 Fax #:			-					Ad	dre	SS:	700	Address: 700 W. Louisiana Ave	na Av	Ġ	.e	e.	Ç.	, o	(ō	.0	.0
Project #:	Proj	Project Owner:	Great Western Drilling	Vest	] me	rillin	ū		City:		<u>S</u>	Midland	ď									
Project Name:	South Carter SA Unit #501								Sta	State: TX	X		Zip: 79701									
Project Location:	n: UL/ A Sec 7 T18S - R39E	39E							Ph	Phone #:	#	432	432-682-5241									
Sampler Name:	Bradley Wells								Fax #:	#												
FOR LAB USE ONLY			_	П		MA	MATRIX		Ш	R	ESE	PRESERV.	SAMPLING	G								
Lab I.D.	Sample I.D.		RAB OR (C)OMP.	OUNDWATER	STEWATER	L		JDGE	HER:	D/BASE:	/ COOL	HER:				loride			Н	Н	Н	Н
H 223845	SP1-3'		_	GRO	WAS	× SOII	OIL	SLU	ОТН	ACII	× ICE	ОТН	DATE 8/22/22	TIME	m	+	+	× Ch				
2-	SP6-3'		0 0			××					××		8/22/22		_	× >		××	××	××	××	××
W	SP7-3'		C 1			×					×		8/22/22			×	×		×	×	×	×
4	SP10-3'		C 1			×					×		8/22/22			×	×		×	×	×	×
PLEASE NOTE: Liability a analyses. All claims includ service. In no event shall (	PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	xclusive remedy fo whatsoever shall i al damages, includ	r any claim arising se deemed waive ing without limitat	wheth d unless ion, bu	er bas s mad siness	e in wri	ontrac ting ar	t or to	d, sha eived I	ll be i by Ca or lo	imited rdinal ss of a	to the within profits	ent's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the a quential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.	client for the etion of the subsidiarie	applic s,	applicable s,	ne applicable s,	ne applicable s,	te applicable s,	te applicable s,	ie applicable s,	ie applicable s,
Relinquished By:	out of or related to the performance of se	Date:	nunder by Cardinal, regardless of whether such claim is based upon Received By:	ivec	By	er suc	h clain	1 is ba	sed u		) or	the abo	any of the above stated reasons o	Phone Result:	Resi	Result:		□ Yes	☐ Yes ☐ No	☐ Yes ☐ No	□ Yes	☐ Yes ☐ No
Relinquished By	ahell	Time: 705	Received By:	ve di	By	6	2		2		B	M	A.	REM. Ema	F A	REMARKS: Email results	Its to:	Its to:	Its to: pm@hungr	Its to: pm@hungr	Its to: pm@hungr	Its to: pm@hungr
Delivered By: Sampler - UPS	(Circle One)O,	200	0.60	$\dashv$	San	nple	Sample Condition	Sample Condition	9		오	CHECKED BY:										



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

 Received:
 09/26/2022
 Sampling Date:
 09/26/2022

 Reported:
 09/28/2022
 Sampling Type:
 Soil

Project Name: SOUTH CARTER SA UNIT #501 Sampling Type. \*\* (See Notes)

Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: GWD - UL/A SEC 7 T18S - R39E

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

BTEX 8021B	mg,	/kg	Analyze	d 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 BTEX	<0.300	0.300	09/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	112 9	% 46.3-17	8						

### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### **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

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:		С												B	BILL TO					A	ANALYSIS	7	REQ	REQUEST	]		
Project Manager:	Daniel Dominguez	ez									P.O.	0. #:	1	1													
Address: POB	PO Box 1058					1					Co	Company	any		Great Western Drilling	Drilling											
City: Hobbs		State: N	MN	Z	Zip:	88	88241	_			Att	Attn:	De	nnis	Dennis Pender					_	_						
Phone #: 575 3	393-3386	Fax #:									Ad	dre	SS:	70	Address: 700 W. Louisiana Ave	na Ave.					_						
Project #:		Project Owner:	wner:	Gre	at W	Great Western Drilling	] use	Orillin	Bi		City:		N.	Midland	1d												
Project Name: S	South Carter SA Unit #501	it #501									Sta	State: TX	Z		Zip: 79701					_							
Project Location:	UL/ A Sec 7 T18S - R39E	3S - R39E									Ph	one	#	43:	Phone #: 432-682-5241												
Sampler Name:	Jorge Valeriano										Fa	Fax #:															
FOR LAB USE ONLY				٥.				MA	MATRIX	]^		PR	ESE	PRESERV.	SAMPLING	G											
Lab I.D.	Sample I.D.	I.D.		(G)RAB OR (C)OMF	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	TPH	BTEX 8021				oles			<u></u>	
	SP1			0	1			×	0		_	1	×	(	9/26/22		×	×	×								
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LEASE NOTE: Liability and Dam	ages. Cardinal's	liability and client's exclusive remedy for any claim arising when and any other cause whatsoever shall be deemed waived unin	emedy for any claim arising whether based in contract or fort, shall be limited to the amount paid was shall be deemed waived unless made in writing and received by Cardinal within 30 days after	aim an	ising v	vhethe	er based in made in w	in wri	ontrac ing an	t or to	rt, sha	I be li	mited dinal v	to the	contract or tort, shall be limited to the amount paid by the client for the riting and received by Cardinal within 30 days after completion of the a	by the client for the completion of the applicable	able										
Relinquished By:	filiates or successors arising out of or related to the performan Relinquished By:	8	Date: Received	Re	gardle	Received By:		ar suci	hether such claim is By:	is ba	sed u	on an	y of th	he abo	is based upon any of the above stated reasons or otherwise.  Phone F	Phone Result:		□ Yes	□ No		Add'l Phone #:	one #:					
Jorge 1/4	DAO, 30	Time: 35	32/01/01			210	11,	9.	6	4	1	41	60	1	6	REMARKS:		Yes			dd'l Fax	*					
Refinqujshed Bÿ:		Date:		Re	ceiv	Received By	By		-							Email results to:	sults		pm@hungry-horse.com	ngry-h	lorse.	om					
Delivered By: (Circle One)	(Circle One)		4	#1/3	W	- (0	Sam	ple	Con	ditio	9		유	CK	CHECKED BY:				apenaen@gwac.com	w6m	10.00						
Sampler - UPS -	Bus - Other:	23.60	500	60.			Yes Yes	Yes		Yes	**			(IIIII)	(mindis)												
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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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



### 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	Analyze	d 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*	0.117	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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	103	% 46.3-17	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

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

mg/kg

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

Analyzed By: JH/

Project Location: GWD - UL/A SEC 7 T18S - R39E

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

BTEX 8021B

	<u> </u>								
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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	99.2	% 46.3-17	8						

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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 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 3 (H224673-03)

BTEX 8021B	mg	/kg	Analyze	ed 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	102	% 46.3-17	8						

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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 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 4 (H224673-04)

BTEX 8021B	mg	/kg	Analyze	ed 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	93.4	% 46.3-17	8						

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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 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 5 (H224673-05)

BTEX 8021B	mg	/kg	Analyze	ed 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	103	% 46.3-17	8						

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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 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 6 (H224673-06)

BTEX 8021B	mg	/kg	Analyze	ed 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	101	% 46.3-17	8						

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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 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 7 (H224673-07)

BTEX 8021B	mg	/kg	Analyze	ed 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	98.8	% 46.3-17	78						

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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 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 8 (H224673-08)

BTEX 8021B	mg	/kg	Analyze	ed 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	103	% 46.3-17	8						

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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 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: Tamara Oldaker NONE GIVEN Sample Received By:

Project Location: GWD - UL/A SEC 7 T18S - R39E

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

BTEX 8021B	mg/	kg	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	101 9	6 46.3-17	8						

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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 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 10 (H224673-10)

BTEX 8021B	mg	/kg	Analyze	ed 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	104	% 46.3-17	8						

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### Analytical Results For:

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

mg/kg

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

Analyzed By: JH

Project Location: GWD - UL/A SEC 7 T18S - R39E

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

BTEX 8021B

	<u> </u>			. ,					
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	93.7	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	100	% 46.3-17	8						

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Celey D. Keene



### 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

Analyzed By: JH

Project Location: GWD - UL/A SEC 7 T18S - R39E

mg/kg

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

BTEX 8021B

	9,	9	7	7: :					
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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	97.2	% 46.3-17	8						

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Celey D. Keene



### 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

Analyzed By: JH

Project Location: GWD - UL/A SEC 7 T18S - R39E

mg/kg

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

BTEX 8021B

	9,	9	7	7: 5::					
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	94.0	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	119	% 46.3-17	8						

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Celey D. Keine



### 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

Analyzed By: JH

Project Location: GWD - UL/A SEC 7 T18S - R39E

mg/kg

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

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 511					
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	93.4	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	125	% 46.3-17	8						

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Celey & Keene



### 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

Analyzed By: JH

Project Location: GWD - UL/A SEC 7 T18S - R39E

mg/kg

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

BTEX 8021B

	9/	9	7111411720	,					
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	92.7	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	123	% 46.3-17	8						

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Celey D. Keene



### 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

Analyzed By: JH

Project Location: GWD - UL/A SEC 7 T18S - R39E

mg/kg

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

BTEX 8021B

	9/	9	7111411720	,					
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	93.0	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	112 9	% 46.3-17	8						

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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 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

Analyzed By: JH

Project Location: GWD - UL/A SEC 7 T18S - R39E

mg/kg

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

BTEX 8021B

	9/	9	7111411720	,					
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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	123	% 46.3-17	8						

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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 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

Analyzed By: JH

Project Location: GWD - UL/A SEC 7 T18S - R39E

mg/kg

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

BTEX 8021B

	91	9	7	7: 5::					
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	Analyze	ed 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	Analyze	ed 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	I						
Surrogate: 1-Chlorooctadecane	125 %	% 46.3-178	8						

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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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Celey D. Keene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



	(575) 393-2326 FAX (575) 393-2476	FAX (5	75) 393-2	476		1		1	1	4	1	1			i i					414	5	á	0	2	ā	-					1	ige 2
company Name:	Hungry Horse LLC	C								$\vdash$				BILL	L 70					ANALYSIS	Ę	S	공	REQUEST	lin	13		1	1	1	1	raç
roject Manager:		ez								70	P.O. #:	#							_	_						_						
Address: POB	× L									_	Company	npa	ny	0	Great Western Drilling	Drilling																_
흥		State:	MN	Zip:		88241	41			_	Attn:		Den	nis	Dennis Pender					_						_				_		
e #:	575 393-3386	Fax #:								_	Add	res	S.	700	Address: 700 W. Louisiana Ave	na Ave.																
		Project	Project Owner:	Grea	Great Western Drilling	ester	n Dr	Suilli	_	_	City:		Mid	Midland			_															
ame:	South Carter SA Unit #501	it #501		1				- 1		10	State: TX	ë	$\overline{X}$		Zip: 79701																	
2 ∣	UL/ A Sec 7	T18S - R39E	Е							-	Pho	ne	#	432	Phone #: 432-682-5241																	
Sampler Name:	Jorge Valeriano									_	Fax #:	#																_				
FOR LAB USE ONLY								MATRIX	문	41	Ш	膃	PRESERV.	?	SAMPLING	IG					_											
Lab I.D.	Sample I.D.	e I.D.		(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	ТРН	BTEX 8021					1					1			
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2	FL2			C	7		1	×	-			191	×	11	10/5/22		×	×	×	-	-		$\top$			-		+	-			
W	FL3			C	4			×	-				×	1	10/5/22		×	×	×		+					-		+	+			
4	FL4		139	C	-			×					×		10/5/22		×	×	×	+	+	1	+	V		1		+	+			
7	FL5			C	-			×				100	×		10/5/22		×	×	×	+	+		$^{\dagger}$			1		+	+			
6	FL6			C	-			×					×		10/5/22		×	×	×	+	+		+			1		+	+			
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9	FL9			0				< ×					××		10/5/22		××	××	××	+	+							-				
PLEASE NOTE: Liability and analyses. All claims including sources in no exent shall Can	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the please. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including hose for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including hose for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including the analyses are considered by Cardinal within 30 days after completion of the applicable analyses. All claims including the analyses are considered by Cardinal within 30 days after completion of the applicable analyses.	d client's excli ther cause whonsequental d	usive remedy for any claim arising whatsoever shall be deemed waived unlarmages, including without limitation.	any claim a deemed v	urising valved imitation	whethe unless	made mass	d in c	ontracting an	d or tort, st nd received , loss of us	rt, sha eived of use	ll be i	mited dinal	firnited to the irdinal within iss of profits i	exclusive remedy for any claim arising whether based in contract or fort, shall be finited to the amount paid by the client for the se whatsoever shall be deemed weived unless made in writing and received by Cardinal within 30 days after completion of the rad damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries	e client for the pletion of the applic ts subsidiaries,	cable															
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### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



Daminic Dominiquez   Daminic Dominiquez   Daminic Dominiquez   Daminic Dominiquez   Daminiquez	Company Name:	101 East Mariand, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	FAX (575) 393-2476	93-2476					1	- 1					00	BILL	170					A	ANALYSIS		REQUEST	띮	TS				
Sest   PO Box 1058   Slate:   NM   Zip:   88241   Attn:   Dennis Pender	Company Name:  Project Manager:	Daniel Dominguez	S C									P	#	*	a		0		_	-	-	- 4	- VAL		100	5	<u>اء</u>	$\neg$		$\neg$	
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South Carter SA Unit #501   State:   TX   Zip:   79701	Project #:		Project Own		reat	We	ster	n D	#	9		Cit	Y:	S	dia	pu											_				
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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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received: 10/26/2022 Sampling Date: 10/24/2022

Reported: 10/31/2022 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 2 - 2' (H225036-01)

BTEX 8260B	mg/	'kg	Analyze	d By: MS					S-05
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	% 83.7-11	4						
Surrogate: Toluene-d8	94.0	% 95.3-10	7						
Surrogate: 4-Bromofluorobenzene	102 9	% 50.9-15	0						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	102 9	% 46.3-17	8						

### Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



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 Sampling Date: 10/24/2022

Reported: 10/31/2022 Sampling Type: Soil

Project Name: SOUTH CARTER SA UNIT #501 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: GWD - UL/A SEC 7 T18S - R39E

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

BTEX 8260B	mg,	/kg	Analyze	d 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	94.8	% 83.7-11	4						
Surrogate: Toluene-d8	94.3	% 95.3-10	7						
Surrogate: 4-Bromofluorobenzene	96.3	% 50.9-15	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	96.9	% 46.3-17	8						

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Celey D. Keine



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 Sampling Date: 10/24/2022

Reported: 10/31/2022 Sampling Type: Soil

Project Name: SOUTH CARTER SA UNIT #501 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: GWD - UL/A SEC 7 T18S - R39E

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

BTEX 8260B	mg	/kg	Analyze	d 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	97.0	% 83.7-11	4						
Surrogate: Toluene-d8	94.5	% 95.3-10	7						
Surrogate: 4-Bromofluorobenzene	97.7	% 50.9-15	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	93.9	% 46.3-17	8						

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Celey D. Keine



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 Sampling Date: 10/24/2022

Reported: 10/31/2022 Sampling Type: Soil

Project Name: SOUTH CARTER SA UNIT #501 Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker NONE GIVEN

Project Location: GWD - UL/A SEC 7 T18S - R39E

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

BTEX 8260B	mg,	/kg	Analyze	d 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	97.4	% 83.7-11	4						
Surrogate: Toluene-d8	92.7	% 95.3-10	7						
Surrogate: 4-Bromofluorobenzene	99.4	% 50.9-15	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.7	% 46.3-17	8						

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Celey D. Keine



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

10/24/2022

### 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 Sampling Type: Soil

Project Name: SOUTH CARTER SA UNIT #501 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Sampling Date:

Project Location: GWD - UL/A SEC 7 T18S - R39E

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

BTEX 8260B	mg	/kg	Analyze	d 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	96.2	% 83.7-11	4						
Surrogate: Toluene-d8	93.3	% 95.3-10	7						
Surrogate: 4-Bromofluorobenzene	99.0	% 50.9-15	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	92.9	% 46.3-17	8						

### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine

C\_NE



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 Sampling Date: 10/24/2022

Reported: 10/31/2022 Sampling Type: Soil

Project Name: SOUTH CARTER SA UNIT #501 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: GWD - UL/A SEC 7 T18S - R39E

ma/ka

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

RTFY 8260R

BTEX 8260B	mg	/ Kg	Anaiyze	d 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	% 83.7-11	4						
Surrogate: Toluene-d8	93.5	% 95.3-10	7						
Surrogate: 4-Bromofluorobenzene	98.6	% 50.9-15	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	111 9	% 46.3-17	8						

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Celey D. Kune



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 Sampling Date: 10/24/2022

Reported: 10/31/2022 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 5 - 2' (H225036-07)

BTEX 8260B	mg,	'kg	Analyze	d 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	99.1	% 83.7-11	4						
Surrogate: Toluene-d8	91.7	% 95.3-10	7						
Surrogate: 4-Bromofluorobenzene	100	% 50.9-15	0						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	110 9	% 46.3-17	8						

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Celey D. Keine



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 Sampling Date: 10/24/2022

Reported: 10/31/2022 Sampling Type: Soil

Project Name: SOUTH CARTER SA UNIT #501 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: GWD - UL/A SEC 7 T18S - R39E

ma/ka

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

RTFY 8260R

BTEX 8260B	mg	/kg	Analyze	d 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	96.5	% 83.7-11	4						
Surrogate: Toluene-d8	93.8	% 95.3-10	17						
Surrogate: 4-Bromofluorobenzene	101	% 50.9-15	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	110	% 46.3-17	'8						

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Celey D. Keine



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 Sampling Date: 10/24/2022

Reported: 10/31/2022 Sampling Type: Soil

Project Name: SOUTH CARTER SA UNIT #501 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: GWD - UL/A SEC 7 T18S - R39E

ma/ka

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

RTFY 8260R

BTEX 8260B	mg	/ kg	Anaiyze	d 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	93.7	% 83.7-11	4						
Surrogate: Toluene-d8	92.9	% 95.3-10	17						
Surrogate: 4-Bromofluorobenzene	97.5	% 50.9-15	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	102	% 46.3-17	'8						

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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 Sampling Date: 10/24/2022

Reported: 10/31/2022 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 8 - 4' (H225036-10)

BTEX 8260B	mg,	/kg	Analyze	d 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 BTEX	<0.150	0.150	10/30/2022	ND					
Surrogate: Dibromofluoromethane	94.9	% 83.7-11	4						
Surrogate: Toluene-d8	94.7	% 95.3-10	7						
Surrogate: 4-Bromofluorobenzene	98.4	% 50.9-15	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	114 9	% 46.3-17	8						

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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 Sampling Date: 10/24/2022

Reported: 10/31/2022 Sampling Type: Soil

Project Name: SOUTH CARTER SA UNIT #501 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: GWD - UL/A SEC 7 T18S - R39E

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

BTEX 8260B	mg,	/kg	Analyze	d 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	% 83.7-11	4						
Surrogate: Toluene-d8	96.2	% 95.3-10	7						
Surrogate: 4-Bromofluorobenzene	98.5	% 50.9-15	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	112 9	% 46.3-17	8						

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Celey D. Keine

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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 Sampling Date: 10/24/2022

Reported: 10/31/2022 Sampling Type: Soil

Project Name: SOUTH CARTER SA UNIT #501 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: GWD - UL/A SEC 7 T18S - R39E

ma/ka

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

RTFY 8260R

BTEX 8260B	mg	/kg	Anaiyze	d 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 BTEX	<0.150	0.150	10/30/2022	ND					
Surrogate: Dibromofluoromethane	96.3	% 83.7-11	4						
Surrogate: Toluene-d8	92.2	% 95.3-10	7						
Surrogate: 4-Bromofluorobenzene	100	% 50.9-15	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	113	% 46.3-17	8						

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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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries of successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

-	(575) 393-2326 FAX (5/5) 393-24/0	AX (S	01 000	1	l	1	١			1	1			-					SISA IND	REQUES	· ·	
Company Name:	Hungry Horse LLC	.,											BILL	T 10		1		-	- Alexander	_		Pa
Project Manager:	Daniel Dominguez	Z								P.O.	0. #:	.77										_
Address: PO Box 1058	1058									C	dwc	Company		Great Western Drilling	Drilling		_	_		_		
슳L		State:	MN	Zip:		88241	41			A	Attn:	De	nnis	Dennis Pender		_	_					
D #		Fax #:								A	dre	:SS:	700	Address: 700 W. Louisiana Ave	a Ave.	_			_			_
		roject	Project Owner:	Grea	at We	Great Western Drilling	n Dr	lling		C	City:	3	Midland	0.		_		_	_			
ame:	South Carter SA Unit #501	#501								S	State:	:X		Zip: 79701								
<u> </u>	UL/ A Sec 7 T18S - R39E	S-R39	E							70	Phone #:	e #:		432-682-5241								
Sampler Name:	Eli Dominguez									T	Fax #:	-		1								
FOR LAB USE ONLY				P				MATRIX	- ×	-	P	RES	PRESERV.	SAMPLING	0							
Lab I.D.	Sample I.D.	.D		(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	трн	BTEX 8021				
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20 00	SP3-2'			9	_			×			-	×	-	10/24/22		×	×	×				
	SP3-4"			G	1			×		-	-	×	-	10/24/22		×	×	×				
,	SP4-2'			G	1			×		-	-	×	1	10/24/22		×	×	×	+	+		
6 8	SP4-4'			G	-			×	_	-	+	×	+^	10/24/22		×	×	< >	+			
7 S	SP5-2'			G	_			×	1	-	+	-	×	10/24/22		< >	< >	× >				
S 8	SP5-4"			G	1	T		×	1	-	+		×	10/24/22		× >	×	××				
S	SP8-2'			G	-			×	1	1	+	-	( >	22142101		× :	×	×				
8 0/	SP8-4'			G	-		or has	X And in contract or tort, st	intract	or tort	shall	e limit	X be limited to the	he amount paid by the client for the	client for the	,	;	1				
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remoty for any cream areasy wneuron areas or a control of the control of the applicable analyses. All claims including those for negligence and any other cause whatsoower shall be determed without unless made in writing and results use, or loss of profile incurred by client, its subsidiaries, analyses. All claims including those for negligence and any other causes whatsoower shall be determed without unless made in writing and results or loss of profile incurred by client, its subsidiaries, analyses. All claims including those for negligence and any other causes whatsoower shall be determed without unless made in writing and results of the control of the above client of the advised transport of the above client of the advised residence of otherwise.	iy and Darnages, Cardinal's liability and client's exclusive remedy for any cia cluding those for negligence and any other cause whatsoever shall be deem all Cardinal be liable for incidental or consequental darnages, including with	rer cause w	exclusive remedy to any claim assing institute viscous and the service whatsoever shall be deemed waived unless made in writing and received to the whatsoever shall be deemed waived unless made in writing and received to the whatsoever shall damages, including without limitation, business interruptions, loss of use, that damages, including without limitation, business interruptions, loss of use,	leemed without	waived	ed unless ma ation, busines	s mad	e in wri	ting an	d rece	wed by	Cardir	nal within	in 30 days after compli s incurred by client, its hove stated reasons of	etion of the app subsidiaries, rotherwise.	licable			1			
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† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476	ot accept verbal c	hanne							1	1	1	-	1									

### Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	(575) 393-2326 FAX (575) 393-2476 e: Hungry Horse LLC	C (c (c / c) X			BILL TO			A	ANALYSIS REQ	REQUEST	
Project Manager:		2 0		P.O. #:							
Address: PO	& L			Company	Great Western Drilling	hilling					_
흕L		State: NM	Zip: 88241	Attn:	Dennis Pender						_
#:	575 393-3386	Fax #:		Address	Address: 700 W. Louisiana Ave	a Ave.					
		Project Owner:	: Great Western Drilling	City:	Midland						
Project Name:	South Carter SA Unit #501	#501		State: TX	X Zip: 79701				_		
Project Location:	n: UL/ A Sec 7 T18S - R39E	S - R39E		Phone #	Phone #: 432-682-5241						
Sampler Name:	: Eli Dominguez			Fax #:							
EOD I ARTISE ONLY	1			MATRIX PRE	PRESERV. SAMPLING	u,					
Lab I.D.	Sample I.D.	I.D.	CONTAINERS COUNDWATER VASTEWATER	OTHER:		Chloride	ТРН	BTEX 8021			
11	SP9-2'		#		-	×	×	×			
,			-			×	×	×			
2	SP9-4		G -	>	N. P. State						
PLEASE NOTE: Liability and Dama analyses. All claims including those service. In no event shall Cardinal It		client's exclusive remedy er cause whatsoever sha nsequental damages, inc	ges. Cardinal's liability and client's exclusive remedy for any dain arising whether based in contract or lort, shall be limited to the for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within e liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits is	based in contract or lost, shall be limited to the amount paid by the client for the made in writing and received by Cardinal within 30 days after completion of the easi interruptions, loss of use, or loss of profits incurred by client, its subsidiaries are interruptions.	nited to the amount paid by the client for the final within 30 days after completion of the a so of profits incurred by client, its subsidiaries, of the above stated reasons or otherwise.	dient for the dient for the applicable subsidiaries.					
Relinquished By:	rising out of or related to the performance  By:	Date: 10/d	Received By:	r such claim is based upon air	A CHICAGO I DANKS AND DE MILION	111 0	□ Yes	□ No	Add'l Phone #: Add'l Fax #:		
W B	Domingues	Time: () ',	'54 Received By:	Wato New	No.	REMARKS:  Email results to:	s to:	pm@hungry-horse.com	-horse.com		
Kellilduslied by.	0 4	Time:			\			dpender@gwdc.com	wdc.com		
Delivered By Sampler - UPS	Delivered By: (Circle One) Sampler - UPS - Bus - Other:	2/0/-	#//3 San		CHECKED BY: (Initials)						
+ Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476		d.1 c/- c	10	No I No	,						

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

Received by OCD: 11/3/2022 1:36:29 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

Page 117 of 118

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 item	ms must be includ	led 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 must be notified 2 days prior to liner inspection)	f the liner integrity	y if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC I	District office mus	t be notified 2 days prior to final sampling)
Description of remediation activities		
I hereby certify that the information given above is true and complete and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and remeduman health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulative restore, reclaim, and re-vegetate the impacted surface area to the conductor of the conductor of the order of the conductor of the conductor of the order of t	release notification C-141 report by the diate contamination C-141 report does ons. The responsibilitions that existed D when reclamation Title:Environ Date:	ns and perform corrective actions for releases which the OCD does not relieve the operator of liability on that pose a threat to groundwater, surface water, not relieve the operator of responsibility for ble party acknowledges they must substantially prior to the release or their final land use in on and re-vegetation are complete.  mental
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 remediate contamination that poses a threat to groundwater, surface was party of compliance with any other federal, state, or local laws and/or	ater, human health	
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

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

### CONDITIONS

Created By		Condition Date
amaxwell	None	2/20/2023