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

Page 6

Form C-141 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.

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

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

Printed Name: Dennis Pender	Title:Environmental
Signature: Nennis Pender	Date: 11-2-2022
email:dpender@gwdc.com	Telephone: _432-682-5241 x 141

**OCD Only** 

OCD Received by:

11/1/2022 Date:

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

Closure Approved by: Ashley Maxwell	Date:	2/20/2023
Printed Name: Ashley Maxwell	Title: _	Environmental Specialist



# **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

Bradley Wells

Bradiey Wells Project Manager bwells@hungry-horse.com

Daniel Dominguez Environmental Manager ddominguez@hungry-horse.com

## **Table Of Contents**

Background	1
NMOCD Site Classification	1
Delineation and Remediation Activities	2
Restoration, Reclamation, and Re-Vegetation	2
Closure Request	3
Limitations	3
Distribution	4

## **Figures**

Figure 1 – Topographic Map Figure 2 – OSE POD Locations Map Figure 3 – USGS Well Locations Map Figure 4 – Delineation Sample Map

## Tables

Table 1 – Summary of Soil Sample Laboratory Analytical Results

## Attachments

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
>100'	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<sup>®</sup> 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



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

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



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







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

•

# Table

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

					: nJXK161			GRO +	<u> </u>		
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)	DRO 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
517.5	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 In-Situ	<0.050	<0.300	<10.0	13.6	<20.0	<10.0	<30.0	<16.0
510	10/24/22	4	In-Situ In-Situ	<0.050	<0.300	<10.0	15.0	<20.0	<10.0	<30.0	<16.0
	5/3/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.4	<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
515	10/24/22	4	In-Situ	<0.050	<0.300	<10.0	25.8	25.8	<10.0	<30.0	16.0
SP10	5/3/22	Surf	Excavated	<0.050	<0.300	<10.0	217	217	213	<b>430</b>	<16.0
SP10-3'	8/22/22	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
											1
FL1	10/5/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL2	10/5/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL3	10/5/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL4	10/5/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL5	10/5/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL6	10/5/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL7	10/5/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL8	10/5/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL9	10/5/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL10	10/5/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW1	10/5/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW2	10/5/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW3	10/5/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW4	10/5/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW5	10/5/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW6	10/5/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW7	10/5/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW8	10/5/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NMOCD (	Closure Crite	ria		10	50	-	-	N/A	-	100	600

# Attachment I Site Photographs























•

# Attachment II Depth to Groundwater

## New Mexico Office of the State Engineer Wells with Well Log Information

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right	(R=POI been rep O=orph C=the fi	olaced, aned,	(quar	ters are 1=] (quarters				5)	014.0%	3 UTM in meters)				(in fe		
	closed)	POD		(quarters			largest)		(INADO.	5 O I M III IIIeters)				(m ie		License
<b>POD Number</b> <u>L 06469</u>	Code	Subbasin L	County LE	Source Shallow		Sec			X 680088	¥ 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	Number 46
<u>L 04571 S3</u>		L	LE	Shallow	4 2 2	07	18S 3	39E	680096	3627035* 🜍	236 08/02/2002	08/05/2002	08/09/2002	223	120	1498
L 00873 POD6		L	LE	Shallow	344	06	18S 3	39E	679888	3627438*	326 05/04/2001	05/05/2001	05/10/2001	230	115 ROBINSON, B.J. (LD)	1498
<u>L 04526</u>	R	L	LE	Shallow	1 1 3	20	18S 3	39E	680280	3626939	343 11/08/1960	11/10/1960	01/17/1961	100	60 JE BARTON	14
L 00873 POD4		L	LE	Shallow	33	05	18S 3	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	185 3	39E	680525	3627337	369 09/27/2006	09/27/2006	10/17/2006	201	EADES, ALAN	1044
<u>L 10528 POD2</u>		L	LE	Shallow	2 1 2	07	18S 3	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 3	39E	679694	3627228*	470 05/20/1980	05/24/1980	07/09/1980	202	91	576
<u>L 10528</u>	R	L	LE	Shallow	2 1 2	07	185 3	39E	679694	3627228*	470 10/19/1995	10/19/1995	11/06/1995	170	78 EADES, ALAN	1044
<u>L 03823</u>		L	LE	Shallow	1 2 1	08	18S 3	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 3	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	18S 3	39E	679789	3627733*	601 02/23/2000	03/01/2000	04/03/2000	230	110 MARSH, KENNETH R.	586
<u>L 03494 POD5</u>		L	LE	Shallow	234	06	18S 3	39E	679687	3627631*	602 03/01/1978	03/17/1978	03/27/1978	200	90 ABBOTT, MURRELL	46
<u>L 03494 POD5</u>	R	L	LE	Shallow	234	06	18S 3	39E	679687	3627631* 🜍	602 03/01/1978	03/17/1978	03/27/1978	200	90 ABBOTT, MURRELL	46
<u>L 03494 POD6</u>		L	LE	Shallow	234	06	18S 3	39E	679687	3627631*	602 01/28/1979	02/08/1979	03/14/1979	170	75 VAN NOY, W.L.	208
<u>L 03494 POD6</u>	R	L	LE	Shallow	234	06	18S 3	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 3	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	24	06	185 3	39E	679982	3627942*	703 09/07/1963	09/12/1963	01/23/1964	160	53 FULLINGIM, M.L.	124
Record Count: 18																
UTMNAD83 Rad	lius Sear	<u>ch (in mete</u>	<u>rs):</u>													
Easting (X):	680162.9	2		Northing	g (Y):	36272	262.34			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 for any particular purpose of the data.

6/8/22 11:55 AM

WELLS WITH WELL LOG INFORMATION



		(quarters are si	NW 2=N nallest to		,	(NAD83 U	TM in meters)	
Well Tag	POD Number	Q64 Q16 Q4	l Sec	Tws	Rng	Χ	Y	
	L 06469	4 4 4	06	18S	39E	680088	3627438* 🌍	
Driller Lice	<b>nse:</b> 46	Driller Comp	any:	ABE	BOTT BR	OTHERS	COMPANY	
Driller Nam	ne: MURRELL AB	BOTT						
Drill Start I	Date: 01/31/1969	Drill Finish D	ate:	02	/01/1969	Pl	ıg Date:	
Log File Da	te: 02/04/1969	PCW Rev Dat	te:			So	urce:	Shallow
Pump Type:	:	Pipe Discharg	ge Size:			Es	timated Yield:	
Casing Size:	: 5.00	Depth Well:		12	0 feet	De	pth Water:	85 feet

\*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, or suitability for any particular purpose of the data.

10/20/22 11:19 AM



			<li>(1)</li>	s are 1=N rs are sm			W 4=SE)	(NAD83 I	(NAD83 UTM in meters)		
Well Tag	POD	Number				Tws Rng		X	Y		
8	L 04	4571 S3	4	2 2	07	18S	39E	680096	3627035* 🌍		
x Driller Lic	ense:	1498	Driller (	Compa	ny:	RO	BINSON	N DRILLIN	1G		
Driller Nai	me:										
Drill Start	Date:	08/02/2002	Drill Fir	nish Da	te:	0	8/05/200	)2 PI	ug Date:		
Log File Date: 08/09/2002			PCW Re	cv Date	e:	0	8/05/200	)8 <b>S</b> a	ource:	Shallow	
Pump Type	e:	SUBMER	Pipe Dis	charge	e Size	:		Es	Estimated Yield:		
Casing Size	e:	10.75	Depth W	Vell:		22	23 feet	D	epth Water:	120 feet	
X	Wate	r Bearing Stratif	ications:	Т	op E	Bottom	Descr	iption			
				12	25	162	Sands	tone/Grave	l/Conglomerate		
				19	99	221	Sands	tone/Grave	l/Conglomerate		
X		Casing Perf	forations:	Т	op E	Bottom					
				12	23	223					

#### \*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.

10/20/22 11:20 AM



Vell Tag POD		Number		(q	uarters a	re 1=NW 2 are smaller <b>Q4 Se</b>	st to large	st)	(NAD8	3 UTM in n X	neters) Y	
L	00	873 POI	D6	3	3 4	4 0	6 18S	39E	6798	88 3627	438* 🔵	
Driller License	:	1498		Dril	ler Co	mpany:	RC	BINSO	N DRIL	LING		
Driller Name:		ROBINS	SON, B.	J. (LD)								
Drill Start Dat	e:	05/04/2	001	Dril	l Finis	h Date:	0	5/05/200	)1	Plug Da	te:	
Log File Date:		05/10/2			V Rcv		Ŭ	5/05/200	<b>J</b> 1	Source:		Shallow
Pump Type:		03/10/2				arge Si	76.			Estimate	ed Vield:	
Casing Size:		10.75		-	th We	-		30 feet		Depth W		115 feet
casing size.		10.75		Бер	th we			50 1001		Deptil V		
M	eter	Numbe	er:	19627			Meter	Make:		MCCR	OMETER	R
M	eter	Serial I	Number	: GP14-	10026	-4	Meter	Multipl	ier:	100.000	0	
Nu	ımb	er of Di	als:	6			Meter	Type:		Diversio	on	
Un	nit o	f Measu	ire:	Gallor	ıs		Retur	n Flow P	Percent:			
Us	age	Multip	lier:				Readi	ng Frequ	uency:	Quarter	ly	
	 ding	gs (in Ac		)								
Read Da	te	Year	Mtr H	Reading	Flag	Rdr	Comm	ient			Mtr	Amount Online
04/01/20	16	2016		103735	А	dd						0
10/01/20	16	2016		125871	А	dd						6.793
04/01/20	17	2017		125871	А	dd						0
07/01/20	17	2017		125871	А	dd						0
01/01/20	18	2017		125871	А	dd						0
07/03/20	18	2018		125871	А	dd						0
10/01/20	18	2018		125871	А	dd						0
01/01/20	19	2018		125871	А	dd						0
04/01/20	19	2019		125871	А	dd						0
07/01/20		2019		125871	А	dd						0
01/01/202		2019		125871	А	dd						0
04/01/202		2020		125871	А	dd						0
10/01/202		2020		125871	А	dd						0
01/01/202		2020		125871	A	dd						0
04/01/202	21	2021		125871	А	dd						0
**YTD N	Met	er Amou	unts: Y	<i>ear</i>		Amoun	t					
			2	016		6.793						
			2	017		(	)					
			2	018		(	)					
			2	019		(	)					
			2	020		(	)					
			2	021		(	)					

\*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.

10/20/22 12:08 PM



		(quarters are 1=NW 2= (quarters are smallest	,	NAD83 UTM in meters)	
Well Tag	POD Number	Q64 Q16 Q4 Sec	e ,	X Y	
	L 04526 POD2	1 1 3 20	18S 39E 6	580347 3623243	
x Driller Lic	ense: 1611	<b>Driller Company:</b>	GOERTZEN D	RILLING	
Driller Na	me:				
Drill Start	<b>Date:</b> 11/03/2008	Drill Finish Date:	11/04/2008	Plug Date:	
Log File D	ate: 11/14/2008	PCW Rcv Date:		Source:	Shallow
Ритр Тур	e:	Pipe Discharge Size	2.	<b>Estimated Yield</b>	1:
Casing Siz	e: 6.00	Depth Well:	229 feet	<b>Depth Water:</b>	

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.

6/1/22 2:55 PM



		× 1			2=NE 3=SV st to largest		(NAD83	UTM in meters)	
ell Tag PO	D Number				c Tws		2		
L (	00873 POE	04	3	3 05	5 18S	39E	68039	1 3627546* 🌍	
riller License:	586	Dril	ler Co	mpany:	MA	RSH, KI	ENNETH	HRAY	
riller Name:	MARSH	, KENNETH R.							
rill Start Date:	: 02/23/2	000 <b>Dril</b>	l Finis	h Date:	03	3/01/2000	)	Plug Date:	
og File Date:	04/20/2		V Rev		05	101/2000		Source:	Shallow
ımp Type:	01/20/2			arge Si	76.			Estimated Yield	
asing Size:	12.75	_	th Wel	-		0 feet		Depth Water:	110 feet
using bize.	12.75	Бер			23				110 1001
Wat	ter Bearing	g Stratifications	:	Тор	Bottom	Descri	ption		
				175	182	Sandsto	one/Grav	vel/Conglomerate	e
				188				vel/Conglomerate	
				196	226	Sandsto	one/Grav	vel/Conglomerate	2
	Cas	ing Perforations	S:	Тор	Bottom				
				110	230				
Met	er Numbe	<b>r:</b> 19625			Meter M	Make:		MCCROMETEI	2
	er Serial N			'-4		Multiplie	er:	100.0000	
	nber of Di				Meter 7	-		Diversion	
	t of Measu		18			Flow Pe	ercent:	21,010101	
	ge Multipl					g Freque		Quarterly	
 Meter Readi	ngs (in Ac	re-Feet)							
Read Date		Mtr Reading	Flag	Rdr	Comme	ent		Mtr	Amount Onlin
04/01/2010	5 2016	170786	А	dd					0
10/01/2010	5 2016	225543	А	dd					16.804
04/01/2017	7 2017	225543	А	dd					0
07/01/2017	7 2017	240607	А	dd					4.623
01/01/2018	8 2017	242918	А	dd					0.709
07/03/2018	8 2018	260135	А	dd					5.284
10/01/2018	8 2018	260135	А	dd					0
01/01/2019	2018	260135	А	dd					0
04/01/2019		260135	А	dd					0
07/03/2019		287167	А	dd					8.296
01/01/2020		313028	А	dd					7.936
04/01/2020		322366	А	dd					2.866
10/01/2020		337832	Α	dd					4.746
01/01/202		337832	А	dd					0
04/01/202	1 2021	337832	А	dd					0
× **YTD M	eter Amou	ints: Year	ŀ	Amount					
		2016		16.804					

201916.23220207.612	2017 2018		2 4
2020 7.612	2019	2019 16.2	2
	2020	2020 7.6	2
2021 0	2021	2021	0

#### \*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.

6/1/22 2:56 PM



		(1	(quarters are 1=NW 2=NE 3=SW 4=SE (quarters are smallest to largest)				E) (NAD83 UTM in meters)				
Well Tag PO	POD	Number	Q64 Q1	Q64 Q16 Q4 Sec			Rng	X	Y		
L 1		1965 POD1	1	2	07	18S	39E	680525	3627337 🧧		
× Driller Lic	ense:	1044	Driller C	ompa	ny:	EA	DES WE	LL DRILL	NG & PUMP	SERVICE	
Driller Na	me:	EADES, ALAN									
<b>Drill Start Date:</b> 09/27/2006		Drill Fini	Drill Finish Date:			09/27/2006		Plug Date:			
Log File D	ate:	10/17/2006	PCW Rcv Date:					Sou	Source:		
Pump Type:			Pipe Disc	Pipe Discharge Size:				<b>Estimated Yield:</b>			
Casing Siz	sing Size: 5.75 Depth Well:			2	01 feet	De	Depth Water:				
Х	Wate	er Bearing Stratif	ications:	Te	op B	otton	Descri	ption			
				13	33	196	Sandsto	one/Gravel/	Conglomerate		
				19	96	199	Sandsto	one/Gravel/	Conglomerate		
Casing Perforation		orations:	То	op B	otton	l					
				10	51	201					

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, or suitability for any particular purpose of the data.

6/1/22 2:50 PM



		<. I	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)					(NAD83 UTM in meters)			
Well Tag PO	D Number	Q64 Q1	6 Q4	Sec	Tws	Rng	X	Y			
20C7C L 1	0528 POD2	2 1	2	07	18S	39E	679761	3627293 🍯			
<sup>x</sup> Driller License:	1753	Driller Co	ompa	ıy:	VA	NGUAF	RD WATER	WELLS			
Driller Name:	FRIESSEN, JAC	OBOIEL.NER									
Drill Start Date:	Drill Fini	<b>Drill Finish Date:</b> 08/17/2				20 Plu					
Log File Date:	09/22/2020	PCW Rcv Date:					Sou	Source:			
Pump Type:	Pipe Disc	Pipe Discharge Size:					<b>Estimated Yield:</b>				
Casing Size:	5.00	<b>Depth Well:</b> 220 feet			20 feet	De	pth Water:	120 feet			
Wat	er Bearing Stratif	ications:	To	рB	ottom	Descr	ription				
			7	5	185	Sands	stone/Gravel/	Conglomerate			
			19	1	198	Sands	stone/Gravel/	Conglomerate			
			19	8	215	Sands	stone/Gravel/	Conglomerate			
X	Casing Perf	orations:	То	p B	ottom	l					

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 12:09 PM


			<b>`</b> 1	rs are 1=N ers are sm			(NAD83 U			
Well Tag	POD Number		Q64 (	Q64 Q16 Q4 Se			e Tws Rng		X Y	
	L 04	4780 POD2	2	1 2	07	18S	39E	679694	3627228* 🌍	
x Driller Lic	ense:	576	Driller	Compa	ny:	ST	ONE, T.J.			
Driller Na	me:									
Drill Start	Date:	05/20/1980	Drill Fi	inish Da	te:	0	5/24/1980	) Pl	ug Date:	
Log File Date: 07/09/1980		07/09/1980	PCW F	Rev Date	e:			So	urce:	Shallow
Ритр Тур	e:		Pipe Di	ischarge	e Size	:		Es	timated Yield:	75 GPM
Casing Siz	e:	6.63	Depth '	Depth Well:			02 feet	Depth Water:		91 feet
X	Wate	er Bearing Stratif	ications:	Тс	op E	Bottom	Descrij	ption		
				12	25	200	Shallov	v Alluviur	n/Basin Fill	
				20	)0	202	Shallow	v Alluviur	n/Basin Fill	
X	Casing Perforat			Te	op E	Bottom	l			
				-	70	200	)			

#### \*UTM location was derived from PLSS - see Help

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

11/1/22 10:02 AM



			(quarters	are 1=N	W 2=]	NE 3=S	W 4=SE)			
			(quarter	s are sm	allest t	to larges	largest) (NAD83 UTM in mete			
Well Tag	POD Number		Q64 Q16 Q4 S			c Tws Rng		X	Y	
	L 03	3823	1	2 1	08	18S	39E	680700	3627250* 🧧	
Driller Lic	ense:	46	Driller (	Compa	ny:	AB	BOTT E	BROTHERS	COMPANY	
Driller Na	me:									
Drill Start	Date:	03/25/1958	Drill Fin	ish Da	te:	0.	3/26/195	58 <b>Pl</b> i	ug Date:	03/23/1960
Log File D	Log File Date: 03/26/1958		PCW Ro	v Date	:			So	urce:	Shallow
Pump Typ	e:		Pipe Discharge Size:					Es	timated Yield	:
Casing Siz	e:	7.00	Depth W	ell:		1.	35 feet	De	epth Water:	70 feet
X	Wate	er Bearing Stratif	fications:	То	рB	Bottom	Descr	ription		
				7	6	135	Sands	stone/Gravel	/Conglomerate	e
Casing Perfe			forations: Top			Bottom				
				6		135				

#### \*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.

6/1/22 2:50 PM



	(quarters are	1-1N WV 2-	=NE $3=3$	W 4=SE)				
	(quarters are	e smallest	t to larges	t)	(NAD83 U	(NAD83 UTM in meters)		
DD Number	Q64 Q16	Q4 Se	c Tws	Rng	Х	Y		
01748	2 3	1 08	18S	39E	680505	3626840* 🧧		
: 124	Driller Com	ipany:	FU	LLINGI	M, M.L.			
FULLINGIM, M.L.								
e: 12/01/1956	Drill Finish	Date:	12	2/03/195	6 Pl	ug Date:		
12/18/1956	PCW Rev D	Date:			So	urce:	Shallow	
	Pipe Discha	rge Siz	æ:		Es	timated Yield	:	
	Depth Well:	:	12	25 feet	De	epth Water:	48 feet	
ater Bearing Stratifica	tions:	Тор	Bottom	Descr	iption			
8		48			-	n/Basin Fill		
		87	105	Shallo	w Alluviun	n/Basin Fill		
	FULLINGIM, M.L. e: 12/01/1956 12/18/1956	OD Number         Q64 Q16 Q16 Q1748           01748         2 3           : 124         Driller Com           FULLINGIM, M.L.         Drill Finish           12/18/1956         PCW Rev E           Pipe Discha         Pipe Discha	OD Number       Q64 Q16 Q4 Se         01748       2 3 1 08         2       3 1 08         124       Driller Company:         FULLINGIM, M.L.       Drill Finish Date:         12/01/1956       Drill Finish Date:         12/18/1956       PCW Rev Date:         Pipe Discharge Siz       Depth Well:         Atter Bearing Stratifications:       Top         48	OD Number       Q64 Q16 Q4 Sec Tws         01748       2       3       1       08       18S         124       Driller Company:       FU         FULLINGIM, M.L.       FULLINGIM, M.L.       FULLINGIM, M.L.         e:       12/01/1956       Drill Finish Date:       12         12/18/1956       PCW Rev Date:       Pipe Discharge Size:       Depth Well:       12         ater Bearing Stratifications:       Top       Bottom       48       63	01748 2 3 1 08 18S 39E 2 3 1 08 18S 39E FULLINGIM, M.L. e: 12/01/1956 Drill Finish Date: 12/03/195 12/18/1956 PCW Rcv Date: Pipe Discharge Size: Depth Well: 125 feet Atter Bearing Stratifications: Top Bottom Descr 48 63 Shallo	OD Number       Q64 Q16 Q4       Sec       Tws       Rng       X         01748       2       3       1       08       18S       39E       680505         :       124       Driller Company:       FULLINGIM, M.L.         FULLINGIM, M.L.       E:       12/01/1956       Drill Finish Date:       12/03/1956       Phil         12/18/1956       PCW Rev Date:       So       So       Pipe Discharge Size:       Es         Depth Well:       125 feet       Det       Det       48       63       Shallow Alluvium	OD Number       Q64 Q16 Q4 Sec Tws Rng       X       Y         01748       2       3       1       08       18S       39E       680505       3626840*       Image: Company: Company: Fullingim, M.L.         :       124       Driller Company:       FULLINGIM, M.L.       Fullingim, M.L.         e:       12/01/1956       Drill Finish Date:       12/03/1956       Plug Date:         12/18/1956       PCW Rev Date:       Source:       Source:         Pipe Discharge Size:       Estimated Yield       Depth Well:       125 feet       Depth Water:         ater Bearing Stratifications:       Top       Bottom       Description       48       63       Shallow Alluvium/Basin Fill	

#### \*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.

6/1/22 2:51 PM



				· •			2=NE 3=S st to larges			3 UTM in meters	2)	
ell Tag	POD	Number					ec Tws				Y	
_	L 00	)873 POD	5			4 0	6 18S	39E	67978	39 3627733	* 🌍	
riller Lice	nse:	586		Dril	ler Co	mpany	: MA	RSH, K	KENNET	`H RAY		
riller Nam	ne:	MARSH	, KENNE	TH R.								
rill Start I	Date:	02/23/20	000	Dril	l Finis	h Date:	. 03	3/01/200	00	Plug Date:		
og File Da		04/03/20				Date:	. 01	,,01/20		Source:		Shallow
imp Type:		01/03/2	500			narge Si	ize•			Estimated Y	′ield∙	Sharow
asing Size		12.75			th We	0		30 feet		Depth Wate		110 feet
asing Size	•	12.75		Бер	un vve		2.			Deptil Wate	1.	
	Wate	r Bearing	g Stratific	cations	:	Тор	Bottom	Desci	ription			
						175	182	Sands	stone/Gra	wel/Conglom	erate	
						188	194			avel/Conglom		
						196	226	Sands	stone/Gra	avel/Conglom	erate	
		Cas	ing Perfo	orations	s:	Тор	Bottom					
						110	230					
	Mete	r Numbe	r:	19626			Meter	Make:		MCCROM	ETER	
		r Serial N				3-4	Meter ]		lier:	100.0000		
		ber of Dia		6	10020	, <b>1</b>	Meter '	_	lier i	Diversion		
		of Measu		Gallor	ns				Percent:	Diversion		
		e Multipl		Ganoi	15		Readin			Quarterly		
	x											
		gs (in Ac										
Read		Year	Mtr Re	_			Comm	ent			Mtr .	Amount Onlin
04/01/		2016		173	A	dd						0
10/01/ 04/01/		2016		174 174		dd						0
04/01/		2017 2017		174		dd dd						0 0
01/01/		2017		174		dd						0
10/01/		2017		174	A	dd						0
01/01/		2018		174		dd						0
04/01/		2010		174	A	dd						0
07/03/		2019		174	A	dd						0
01/01/		2019		174	A	dd						0
04/01/		2020		174	A	dd						0
10/01/		2020		174	А	dd						0
01/01/		2020		174	А	dd						0
04/01/	/2021	2021		174	А	dd						0
**YT	D Me	ter Amou	nts: Ye	ar	1	Amoun	- t					
			20	16		(						
			20			(	)					

2018 2019	0 0	
2020	0	
2021	0	

#### \*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, or suitability for any particular purpose of the data.

11/1/22 10:04 AM



			(quarter	rs are 1=N	W 2=1	NE 3=S	W 4=SE)			
			(quarte	ers are sm	allest t	o larges	t)	(NAD83 U	TM in meters)	
Well Tag	POD	Number	Q64 (	Q16 Q4	Sec	Tws	Rng	Χ	Y	
	L 0.	3494 POD5	2	3 4	06	18S	39E	679687	3627631*	
x Driller Lic	ense:	46	Driller	Compa	ny:	AB	вотт в	BROTHERS	S COMPANY	
Driller Nai	me:	ABBOTT, MUR	RELL							
Drill Start	Date:	03/01/1978	Drill Fi	nish Da	te:	0	3/17/197	'8 <b>P</b> I	ug Date:	
Log File D	ate:	03/27/1978	PCW R	cv Date	e:	0	2/15/198	32 <b>S</b> o	ource:	Shallow
Pump Type	e:	SUBMER	Pipe Di	scharge	Size	: 3		Es	stimated Yield	:
Casing Size	e:	7.00	Depth V	Well:		2	00 feet	D	epth Water:	90 feet
x	Wate	er Bearing Stratif	ications:	Ta	p B	ottom	Descr	iption		
				ç	90	200	Other/	Unknown		
X	Casing Perfo			Та	p B	ottom	l			
				12	73	200				

#### \*UTM location was derived from PLSS - see Help

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

11/1/22 10:05 AM



		(quarters are 1=NW) (quarters are smal		/	(NAD83 U		
Well Tag PO	D Number	Q64 Q16 Q4	Sec Tws	Rng	X Y		
L	03494 POD6	2 3 4	06 18S	39E	679687	3627631* 🌍	
Driller License:	208	Driller Compan	y: VAl	N NOY, W.	.L.		
Driller Name:	VAN NOY, W.L.						
Drill Start Date	: 01/28/1979	Drill Finish Date	e: 02	2/08/1979	Pl	ug Date:	
Log File Date:	03/14/1979	PCW Rcv Date:	02	2/15/1982	So	urce:	Shallow
Pump Type:	SUBMER	Pipe Discharge S	Size: 2		Es	timated Yield:	:
Casing Size:	6.63	Depth Well:	17	70 feet	De	pth Water:	75 feet
× Wa	ter Bearing Stratifica	ations: Top	<b>Bottom</b>	Descript	ion		
		75	5 170	Shallow .	Alluviun	ı/Basin Fill	
x	Casing Perfor		<b>Bottom</b>	Bottom			
		150	) 170				

#### \*UTM location was derived from PLSS - see Help

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

11/1/22 10:06 AM



	Number		rters are s	smalles	t to longo				
	Number	0(1			a to large	st)	(NAD83 U		
L 08		Q64	Q16 Q	4 Se	e Tws	Rng	Χ	Y	
L UC	3850	1	1	2 0'	7 18S	39E	679494	3627228*	<b>e</b>
nse:	897	Drille	r Comp	oany:	"B	UFORE	), O.C. ""RC	CKY""	"
e:	BUFORD, O.C. "	'ROCKY"							
Date:	07/06/1982	Drill l	Finish I	Date:	0	7/09/19	82 Pl	ug Date:	
te:	07/23/1982	PCW	Rev Da	ite:			So	ource:	Shallow
		Pipe I	Dischar	ge Si	ze:		Es	ld:	
1	6.00	Depth	Well:		1	50 feet	De	epth Water:	65 feet
Wate	r Bearing Stratif	ications:	1	Тор	Botton	n Desc	ription		
	5			65	15	) Othe	r/Unknown		
Casing Perform			I	Тор	Botton	1			
				144	15	)			
	e: Date: De:	e: BUFORD, O.C. ' Pate: 07/06/1982 ee: 07/23/1982 6.00 Water Bearing Stratif	e: BUFORD, O.C. "ROCKY" Pate: 07/06/1982 Drill 1 re: 07/23/1982 PCW Pipe I	e: BUFORD, O.C. "ROCKY" Pate: 07/06/1982 Drill Finish I re: 07/23/1982 PCW Rcv Da Pipe Dischar 6.00 Depth Well: Water Bearing Stratifications: Casing Perforations:	e: BUFORD, O.C. "ROCKY" Pate: 07/06/1982 Drill Finish Date: re: 07/23/1982 PCW Rcv Date: Pipe Discharge Siz 6.00 Depth Well: Water Bearing Stratifications: Top 65	e: BUFORD, O.C. "ROCKY" Pate: 07/06/1982 Drill Finish Date: 0 re: 07/23/1982 PCW Rcv Date: Pipe Discharge Size: 6.00 Depth Well: 1 Water Bearing Stratifications: Top Bottom 65 150 Casing Perforations: Top Bottom	e: BUFORD, O.C. "ROCKY" pate: 07/06/1982 Drill Finish Date: 07/09/19 pe: 07/23/1982 PCW Rev Date: Pipe Discharge Size: 6.00 Depth Well: 150 feet Water Bearing Stratifications: Top Bottom Desc 65 150 Othe Casing Perforations: Top Bottom	e: BUFORD, O.C. "ROCKY" pate: 07/06/1982 Drill Finish Date: 07/09/1982 Pl pe: 07/23/1982 PCW Rev Date: So Pipe Discharge Size: Es 6.00 Depth Well: 150 feet Do Water Bearing Stratifications: Top Bottom Description 65 150 Other/Unknown Casing Perforations: Top Bottom	e: BUFORD, O.C. "ROCKY" Pate: 07/06/1982 Drill Finish Date: 07/09/1982 Plug Date: per 07/23/1982 PCW Rcv Date: Source: Pipe Discharge Size: Estimated Yie 6.00 Depth Well: 150 feet Depth Water: Water Bearing Stratifications: Top Bottom Description 65 150 Other/Unknown

#### \*UTM location was derived from PLSS - see Help

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

11/1/22 10:07 AM



			(quarters are	1=N	W 2=]	NE 3=S	W 4=SE)			
			(quarters are smallest to largest)					(NAD83 U		
Well Tag	POD	Number	Q64 Q16	Q4	Sec	Tws	Rng	Χ	Y	
	L 0.	3933	2	4	06	18S	39E	679982	3627942* 🍯	
Driller Lic	ense:	124	Driller Con	npa	ny:	FU	LLINGIN	M, M.L.		
Driller Nai	me:	FULLINGIM, M.L.								
Drill Start	Date:	09/07/1963	Drill Finish	Da	te:	0	9/12/1963	3 <b>P</b> I	ug Date:	
Log File D	ate:	01/23/1964	PCW Rev I	Date	:			Se	ource:	Shallow
Pump Type	e:		Pipe Discha	ırge	Size	:		Es	stimated Yield	:
Casing Siz	e:		Depth Well	:		1	60 feet	D	epth Water:	53 feet
X	Wate	er Bearing Stratifica	tions:	То	p E	Bottom	n Descri	ption		
				5	53	110	) Sandst	one/Grave	l/Conglomerate	;
				11	7	160	) Sandst	one/Grave	l/Conglomerate	;

#### \*UTM location was derived from PLSS - see Help

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

11/1/22 10:07 AM

USGS Home Contact USGS Search USGS



National Water Information System: Web Interface

Data Category: Groundwater

~

Geographic Area: United States

✔ GO

#### Click to hideNews Bulletins

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

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

#### Search Results -- 1 sites found

Agency code = usgs

#### 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		3543,75	NAVD88	1	Z		
1984-01-04		D	72019	100.25			1	Z		
1985-01-08		D	62610		3541,75	NGVD29	1	Z		
1985-01-08		D	62611		3542,86	NAVD88	1	Z		

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

#### Received by OCD: 11/3/2022 1:36:29 PM

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		

Explanation									
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	О	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.							

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

 Accessibility
 FOIA
 Privacy
 Policies and Notices

 U.S. Department of the Interior
 U.S. Geological Survey

 Title:
 Groundwater for USA:
 Water Levels



.

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

### Sample Log

Project: South Carter SA Unit #501

Latitude: 32.768517

Hungry Horse, LLC

Longitude: -103.076546

Date: <u>5/3/22</u> Sampler: <u>B. Wells</u>

Sample ID	Depth	PID/Odor	Chloride	GPS
SPI	SURF	WIR	1.6 = 32 + 4 = 128	
•	ľ	NIA	2.4=65×4= 260	
	<u>Z</u>	NIA	,02×1000=200	
	3'	10/11	2.0 = 50 × 4 = 200	
	Ŭ,	1/4	2.0=50x4=200 1.8= 38 ×4=152	
572	Surf	NIA	1.8= 38 ×4=152	
•	l ('	h/n	1.6 = 32×4=128	
	2'	WIA	2100	
	3'	NIA	2100	
	4'	n/U	2100	
503	Surf	WIA	6100	
	(`	NIA	18=43x4=172	
	<u>Z</u>	NIA	,09 ×1000 = 90	
	3'	NIA	14=30×4=120	
	Ŭ,	WIA	2100	
Sp4	SURF	NIA	1.8= 38 ×4=152	
16	<u> </u>	h/a	2.4=65×4=260	
	2'	NIA	1.6= 32+4=128	
	<u> </u>	WIA	2100	
	<u> </u>	NIA	L100	
505	Surf	NIA	1.6 = 32×4=128	
	1'	n/U	1.8= 43× 4= 170	
	2'	n/a	14=30×4=120	
	3'		2100	
	4'	NIA	2100	10 10 10
5.06	SWF	N/17 2	3.0= 88×4= 352.	
	1'	Yes	,38×1000=380	
	2'	Yes	· 30 × 1000 = 309	
	3'	N/alnois	130 1000 = 700	
0	4	10 10	2.4=65x4=260	
Sp7	Surf	###2 7	$1.6 = 32 \times 4 = 128$	
	1'	TPHI	2. n= 50×4=200 209×1000=90	
	2'	yes		
	3'	n/u	· 30x 1000 = 200	
	4'	n/u	109×1000= 00	

Sample Point = SP1 @ ## etc

Horizontal = HZ1 etc

Floor = FL1 etc

Sidewall = SW1 etc

Refusal = SP1 @ 4'-R **GPS Sample Points, Center of Comp Areas** 

Test Trench = TT1 @ ## Resamples= SP1b @ 5' or SW #1b Stockpile = Stockpile #1

#### Sample Log

#### Hungry Horse, LLC

Date:

Project: South Carter SA Unit #501 Latitude: 32.768517

Longitude: -103.076546

5/3/22 B-Wells Sampler:

Sample ID	Depth	PID/Odor	Chloride	GPS
508	Surf	MA 2	<100	
3 <b>4</b> 3	· · ·	<i>N/А</i> n/U	14=30X4=120	
	2'	n/u	1.8=43×4 170	
	<u>3'</u> Ú'	WIA	1 4= 30×4=120 1.8= 43×4 170 2100	
	Ŭ.	NIA?	100 2.0 = 45×4=180	
Sp9	SURF	NA?	2.0= 45×4=180	
	ľ	NJA N/U	<100 < 100	
	<u>z'</u> 3'	n/u	2 100	
		n/U 11/a 7PH1	400	
	4'	n/a	2100 2100	
5010	SUFF	TPHI	< 100	
	1°	405	.23x1000=230 "41x1000=410 2.8=83x4=2332 2.6=93x4=272	
	Zi	405 405	41 x 1000 = <u>410</u>	
	<u>.3</u> *	N/a N/a	2.B= 83 × 4 = 332	
	u'	n/a	2.6=93×4=372	
		1		

Sample Point = SP1 @ ## etc

Horizontal = HZ1 etc

Test Trench = TT1 @ ##

Floor = FL1 etc

Sidewall = SW1 etc

Refusal = SP1 @ 4'-R

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

Resamples= SP1b @ S' or SW #1b Stockpile = Stockpile #1

#### Sample Log

Project: South Carter SA Unit #501

Latitude: 32.768517

Hungry Horse, LLC

Longitude: -103.076546

Date: 10/5/22\_\_\_\_\_ Sampler: Jorge, Valence

Sample ID	Depth	PID/Odor	Chloride	GPS
FLI	4'	NIA	2.8=83×4=332	
FL 2	Y'	NIA	2.6=74×4=296	
FL 3	4'	NIA	2.8=83×4=332	
FL 4	<u> </u>	NIA	2,2=57x4=228	
FL 5	<u>۲</u> ۲	NIA	·09×1000 = 90	
FL 6	Ч	NIA	1.8=43×4=172	
FL 7	4	N/A	115*1000=150	
FL 8	Ч	NIA	20-50×4=200	
FL 9	4'	NIA	J. O=50×4=200	
FL 10	<u> </u>	<u>N</u> /A	165=36x4=144	
<u>SW</u> !	a'	A//A	1.6=36x4=144	
S[V] J	2'	NIA	1.8=43x4=172	
JIN 3	2'	N/A	2.6=74×4=296	
JW 4	2'	NIA	2.0~50*4=200	
FW 5	2'	NIA	-122/0022220	
500 6	2	NIA	1,8=43,4=172	
<u>Sw</u> 7	2'	N/A	L6==36×9=144	
5h 8	9	N/A	2.0=50×4>200	
Samula Doint - 50			Havisantal - H71 ata	Tost Trough - TT1 @ ##

Sample Point = SP1 @ ## etc

Horizontal = HZ1 etc

Floor = FL1 etc Sidewall = SW1 etc

# 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/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/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.

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. Keine

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	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	432	108	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	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

Celeg D. Keine

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 2 (H221850-02)

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	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	432	108	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	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	2						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

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 3 (H221850-03)

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, 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	432	108	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	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						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

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 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, 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	432	108	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	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						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

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 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, 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					
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						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

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 6 (H221850-06)

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	99.5	% 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*	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						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

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 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						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

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 8 (H221850-08)

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	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	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	2						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

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 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	% 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						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

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 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 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					
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	6						
Surrogate: 1-Chlorooctadecane	122 9	% 59.5-14	2						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

# Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-	101 East Marland,
393-2326	arland
FAY /	, Hobbs,
15751 2	os, NM
202 247	1 88240

DINTAINERS DUNDWATER B824	el Dominguez	State:         NM         Zip:         88241           Fax #:         Project Owner:         Great Western Drilling           Sec 7 T18S - R39E         Sec 7 T18S - R39E           ey Wells         OR (C)OMP.           AINERS         MATRIX           WATER         MATRIX	State:         NM         Zip:         88241         Attn:         Company         Great Western Drilling           Fax #:	State: NM         Zip:         88241         Attr.         Company         Great Western Drilling           Fax #:         Fax #:         Zip:         88241         Attr.         Dennis Pender           Project Owner:         Great Western Drilling         City:         Midland           ter SA Unit #501         Great Western Drilling         City:         Midland           Sec 7 T18S - R39E         Fax #:         Phone #:         432-682-5241           ey Wells         MaTRIX         PRESERV         Sample I.D.
C     C     C     C     G(RAB OR (C)OMP.       -1     -1     -1     # CONTAINERS       -1     -1     -1     # CONTA	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	AINERS DWATER MATER MATRIX MATRIX	Ip:     88241     Company     Great Western Drilling       attr:     Dennis Pender       Address:     700 W. Louisiana Ave.       eat Western Drilling     City:     Midland       State:     TX     Zip:       VATER     MATRIX     PRESERV.       SAMPLING     Fax #:	AINERS DWATER WATER MATRIX MATRIX PRESERV. SAMPLING de
	SLUDGE		Company     Great Western Drilling       Attn:     Dennis Pender       Address:     700 W. Louisiana Ave.       City:     Midland       State:     TX     Zip:       Phone #:     432-682-5241       Fax #:     SAMPLING	Company     Great Western Drilling       Attn:     Dennis Pender       Address:     700 W. Louisiana Ave.       City:     Midland       State:     TX     Zip:       Phone #:     432-682-5241       Fax #:     SAMPLING



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/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/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.

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. Keine

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, SM4500Cl-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	51						
Surrogate: 1-Chlorooctadecane	141	% 46.3-17	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

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 6 - 3' (H223845-02)

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	111 9	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	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

Celez D. Keine

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 7 - 3' (H223845-03)

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	109	% 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	96.0	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	08/23/2022	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	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

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 10 - 3' (H223845-04)

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	110 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	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	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	88.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	104 9	% 46.3-17	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

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

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager
	4 SP	3 SP	2 SP	/ SP	Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name: Sou	Project #:	Phone #: 575 393-3386	City: Hobbs	Address: PO Box 1058	Project Manager:	Company Name:
	SP10-3'	SP7-3'	SP6-3'	SP1-3'	Sample I.D.		Bradley Wells	UL/ A Sec 7 T18S - R39E	South Carter SA Unit #501		3-3386		1058	Daniel Dominguez	Hungry Horse LLC
					e I.D.			8S - R39	it #501	Project	Fax #:	State:		lez	LC
								т		Project Owner:		NM			
+	0	0	0	0	(G)RAB OR (C)OMP					Gre		N			
		1	-	-	# CONTAINERS		1			Great Western Drilling		Zip:			
				1	GROUNDWATER	Γ	1			leste		88			
					WASTEWATER	]				mD		88241			
	×	×	×	×	SOIL	MATRIX				nillin					
				1.1	OIL	R				õ					
					SLUDGE	1									
					OTHER :	1	Fa	Ph	Sta	Cit	Ad	Att	Co	P.O.	
					ACID/BASE:	PR	Fax #:	one	ate:	City:	dre	Attn:	đ	0. #:	
	×	×	×	×	ICE / COOL	PRESERV.		Phone #:	State: TX	Mic	SS:	De	Company		
					OTHER :	RV			1	Midland	70	nnis		1	D.
	8/22	8/22	8/22	8/22	D	SA	1	432-682	Zip:	p	Address: 700 W. L	Dennis Pend	Great V		BILL I

Received by	OCD:	11/3/2022	1:36:29 PM
-------------	------	-----------	------------

		(							Ŧ
	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	Hobbs, NM 8 FAX (575) 393-	8240 2476						
Company Name:	Hungry Horse LLC	C		BILL TO				ANALYSIS REQUEST	
Project Manager:		Z		P.O. #:		-			
Address: PO E	PO Box 1058			Company Great Western Drilling	ern Drilling				
City: Hobbs		State: NM	Zip: 88241	Attn: Dennis Pender		-			
Phone #: 575 :	575 393-3386	Fax #:		Address: 700 W. Louisiana Ave	siana Ave.				_
Project #:		Project Owner:	Great Western Drilling	City: Midland					
Project Name:	South Carter SA Unit #501	#501		State: TX Zip: 79701	01	-			
Project Location:	: UL/ A Sec 7 T18S - R39E	S - R39E		Phone #: 432-682-5241	H				
Sampler Name:	Bradley Wells			Fax #:					
FOR LAB USE ONLY			. MATRIX	PRESERV. SAMPLING	LING				
Lab I.D.	Sample I.D.	I.D.		IDGE HER : D/BASE: / COOL HER :		loride H	EX 8021		
1	SP1-3'		1 0 × 0	X		-			
2	SP6-3'		C 1 X	X 8/22/22		X X	×		
3	SP7-3'		C 1 X	X 8/22/22		× ×	×		
4	SP10-3'		-			×	×		1
PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Can	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim analyses. All claims including those for negligence and any other cause whatsoever shall be deemed service. In onevent shall Cardinal be shale for incidental or consequential damages, including willow extra the network of a state of a value to the andromovor of exercise humandes by Cardinal extra the network of a state of a value to be and any other cause of a state of the networks and the deemed analysis.	client's exclusive remedy for ar cause whatsoever shall b sequental damages, includi on of conduct have been been by the term of te		arising whether based in contract or tort, shall be limited to the amount paid by the client for the wived unless made in writing and received by Cardinal within 30 drays after completion of the a limitation, business interruptions, loss of use, or loss of profits have a stard reason, it is subsidiaries, associates a subsidier such claim based unce or loss of the above stard reasons or of haveke	r the client for the mpletion of the applicab it, its subsidiaries, or or otherwise	ē			
Relinquished By:	0111 V 3	Date: 8-22-2	Bate: 22.22 Received By:	INNUU	Phone Result: Fax Result:		□ Yes □ No	o Add'l Phone #: o Add'l Fax #:	
Relinquished By	Whill	Time:	Received By:	All Mallog	Email results to:	Its			
Delivered Bv: (Circle One) Sampler - UPS - Bus - Other	11	0.22 C	4113 Sample Condition	dition CHECKED BY: t (Initials) No					
† Cardinal cann	ot accept verbal ch	anges. Please fa	Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476	-393-2476					

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

Page 7 of 7



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\_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.

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. Keine

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 Condition:	** (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 9	% 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	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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

# Received by OCD: 11/3/2022 1:36:29 PM

		TAV IETE	202 24-	TR																						
	(575) 393-2326 FAX (575) 393-2476	FAX (DID)	1-7-000	C						I																
Company Name:	Hungry Horse LLC	LC							_			B	BILL TO						ANA	ANALYSIS		REQUEST	ST			
Project Manager:	Daniel Dominguez	ez							G	P.O. #:	<b>.</b>						-	-	-	-	$\neg$	-	_	_	_	-
Address: PO B	PO Box 1058								0	Company	bany		Great Western Drilling	n Drilling												
City: Hobbs		State: NM	-	Zip:		88241			Þ	ttn:	De	innis	Attn: Dennis Pender													
Phone #: 575 3	575 393-3386	Fax #:							Þ	ddre	ess:	700	Address: 700 W. Louisiana Ave.	ana Ave.				_								
Project #:		Project Owner:		Great Western Drilling	Weste	ern D.	rilling	_	0	City:	Mi	Midland	Id											_		
Project Name: S	South Carter SA Unit #501	t #501							S	State: TX	XL		Zip: 79701	1				_	-			-				
Project Location:	UL/ A Sec 7 T18S - R39E	3S - R39E							P	hon	e #:	432	Phone #: 432-682-5241													_
Sampler Name:	Jorge Valeriano								T	Fax #:								_		-	-	_				_
FOR LAB USE ONLY					Н		MATRIX	XIX		P	PRESERV.	RV.	SAMPLING	NG						-		-				
Lab I.D.	Sample I.D.	I.D.		G)RAB OR (C)OMF	ROUNDWATER	VASTEWATER	OIL	LUDGE	THER :	CID/BASE:	CE / COOL	THER :	DATE	TIME	Chloride	ГРН	BTEX 8021		1			1				
_	SP1			-	-	-	_	-	-	_	_	0	9/26/22		×	×	×	1	1	1	+	+	+	-	+	-
-													1					$\square$	IT	$\square$	+	+	+			
							-	-																-	-	-
																							-			
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's e analyses. All claims including those for negligence and any other cause service. In no event shall Cardinal be liable for incidental or consequent service.	Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within final be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits is	client's exclusive rem er cause whatsoever isequental damages,	nedy for any claim arising whether based in contrac r shall be deemed waived unless made in writing ar , including without limitation, business interruptions,	aim arisin ned waive out limitat	g whethe d unless ion, busi	r baser made i ness int	d in cor n writin lerruptio	g and r ons, los	eceived s of us	hall be 1 by Ca e, or lo	imited ardinal ss of p	to the within 2 rofits in	sclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable al damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	e client for the letion of the application subsidiaries,	able											
Relinquished By:	SV:	Date:	22/9	Received By:	ived	By:				2				Phone Result: Fax Result:		□ Yes			Add'l	Add'l Phone #: Add'l Fax #:	*					
Jonge /1	eriona	Time: 35			du		1	e e	R	A	6	2	JA.	REMARKS:												
Rélinquished By:		Date: Time:		Received By:	lived	By:						1		Email results to:	sults	to:	pm@ dpen	hung der@	pm@hungry-horse.com dpender@gwdc.com	se.cor	п					
Delivered By: (Circle One) Sampler - UPS - Bus - Other		23.6%	1#	#13		Sample Condition Cool Intact	ln In	e Conditio Intact	tion		유	ECKED E (Initials)	CHECKED BY: (Initials)													
			02	e	-		No		No																	

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

# Page 77 of 118

CARDINAI

Page 4 of 4



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/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/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.

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. Keine

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 9	% 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	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 9	% 46.3-17	8						

# Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

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 2 (H224673-02)

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	103 9	% 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	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						

# Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	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	104	% 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	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						

# Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

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 4 (H224673-04)

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	103	% 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	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						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	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	104	% 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	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	98.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	103	% 46.3-17	8						

### Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

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 6 (H224673-06)

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	104	% 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	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						

# Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

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 7 (H224673-07)

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	103 9	% 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	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	94.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	98.8	% 46.3-17	8						

# Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

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 8 (H224673-08)

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	% 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	10/08/2022	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						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 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, SM4500Cl-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	% 46.3-17	8						

# Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

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 10 (H224673-10)

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	104	% 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	10/08/2022	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						

### Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

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: SW 1 (H224673-11)

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	2.31	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, 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	10/08/2022	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						

# Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

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: SW 2 (H224673-12)

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	2.31	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						

# Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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: SW 3 (H224673-13)

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	2.31	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	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	101	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	119	46.3-17	8						

# Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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: SW 4 (H224673-14)

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	2.31	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 9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	125 9	% 46.3-17	8						

# Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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: SW 5 (H224673-15)

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	2.31	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, SM4500Cl-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	10/07/2022	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						

# Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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: SW 6 (H224673-16)

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	2.31	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, 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	96.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	112 9	46.3-17	8						

# Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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: SW 7 (H224673-17)

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	2.31	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, SM4500Cl-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	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 9	45.3-16	1						
Surrogate: 1-Chlorooctadecane	123 9	46.3-17	8						

# Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

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: SW 8 (H224673-18)

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	2.31	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	% 69.9-14	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	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 9	45.3-16	1						
Surrogate: 1-Chlorooctadecane	125	% 46.3-17	8						

# Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

# Doratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Inder     Inder       Inder <th>G</th> <th>FAA (2/2) 333-24</th> <th>10</th> <th>BILL TO</th> <th></th> <th>ANALYSIS REQUEST</th>	G	FAA (2/2) 333-24	10	BILL TO		ANALYSIS REQUEST
Opaniel Dominguez     State:     NM     Zip:     Rest Western Drilling Rest Western Drilling     Grant, Western Drilling Rest Western Drilling     Grant, Western Drilling Rest Western Drilling     Grant, Wester		100		ŧ	-	
eas:     PO Box 1058     State:     NM     Zip:     B8241     Address:     Company     Galaxies       ett.     F15 393-3386     Fax E:     Project Owner:     Great Western Dilling     City:     Midland       ett.     Project Owner:     Fax E:     Project Owner:     Great Western Dilling     City:     Midland       ett.     Project Owner:     Great Western Dilling     City:     Midland     Project Owner:     Fax #:       part frame:     Jorge Valeriano     Fax #:     Fax #: <td< th=""><th></th><th>Jez</th><th></th><th></th><th></th><th></th></td<>		Jez				
Indubs     State:     NM     Zip:     B82:41     Attn:     Demis Pender:       ief#:     575 393-3386     Fax #:	Address: PO Box 1058				Drilling	
Internet     Fax #:     Address:     700 W Louisiana Ave.       Internet     South Carter SA Unit #501     State:     Not Milland       Vert Rame:     South Carter SA Unit #501     State:     Not Milland       Vert Location:     UL/ A Sec 7 T18S - R39E     Ray #:     Address:     Propert Vale       Jong Valerano:     Vert Base     Not #:     Address:     Propert Valerano     Propert Valerano       Jong Valerano:     Vert Valerano:     Propert Valerano     Propert Valerano     Propert Valerano     Propert Valerano     Propert Valerano       Jong Valerano:     Vert Valerano     Propert Valerano     Propert Valerano     Propert Valerano     Propert Valerano       Jong Valerano:     Sample LD.     MATRIX     Propert Valerano     Propert Valerano     Propert Valerano     Propert Valerano     Propert Valerano       Jong Valerano     C 1     X     C 1     X     I I I Valerano     Date:     TIME     Chloride       Jong Valerano     FL4     C 1     X     I I X     I I I X     I I I I X     I I I I X     I I I I I X     I I I I X     X			_	Attn: Dennis Pender		
Image:     South Carter SA Unit #SO1     Creative     Integration     City:     Midland       ame:     South Carter SA Unit #SO1     F132     Phone #:     132-682-5241     Phone #:     132-682-5241       vame:     U/U A Sec 7 T18S - R39E     F143     F143     F1432-682-5241     F1432-682-5241       vame:     U/U A Sec 7 T18S - R39E     F1432-682-5241     F1432-682-5241     F1432-682-5241       vame:     Volge Valeriano     F144     F1432-682-5241     F1432-682-5241       vame:     Volge Valeriano     F144     F1432-682-5241     F1432-682-5241       vale     F14     G1042     F1432-682-5241     F1432-682-5241     F144       F14     G1     G1     G1     G1     F144     F144     F144     G105/22     G1     G	e #	Fax #:		Address: 700 W. Louisian	a Ave.	
ame:     South Carter SA Unit #501     State:     TX     Zip:     Prome #:     Alge S2-5241       vame:     Jorge Valeriano     Fax #:     Fax #:     Fax #:     Fax #:     Fax #:       vame:     Jorge Valeriano     Fax #:     MATRIX     PRESERV     SAMPLING       court     Gig RAB OR (C)OMP.     Gig RAB OR (C)OMP.     Gig RAB OR (C)OMP.     Fax #:		Project Owner:	Great Western Drilling			
IUL/ A Sec 7 T18S - R33E     Phone #:     432-682-5241       Jorge Valenano     MTRIX     PRESERV     SAMPLING       F12     F13     C     1     X     PROVE #:     F13       F13     C     1     X     1     X     1     X     105/22     X     X     F16       F14     C     1     X     1     X     1     X     105/22     X     X     105/22     X     X     X     105/22     X     X     X     X     X     105/22     X     X     X     X     X     X     X     X     105/22     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X </td <td>ame:</td> <td>nit #501</td> <td></td> <td>TX Zip:</td> <td></td> <td></td>	ame:	nit #501		TX Zip:		
Integration     First Sample I.D.       Sample I.D.     MATRX     PRESERV PRESERV     SAMPLING       FIG     C     1     C     1     C     1     C     1     C     1     C     1     C     1     C     1     C     1     C     1     C     1     C     1     C     1     C     1     C     1     C     1     C     1     C     1     C     1     C     1     C     1     C     1     C     1     X     1     1     X     1     1     X     1     1     X     1     1     X     1     1     X     1     1     X     1     1     X     1     1     1     X     1     1     X     1     1     X     1     1     X     1     1     X     1     1     1     1     X     1     1     1     1 <t< td=""><td><u>n</u>:</td><td>8S - R39E</td><td></td><td>Phone #: 432-682-5241</td><td></td><td></td></t<>	<u>n</u> :	8S - R39E		Phone #: 432-682-5241		
MATRIX     PRESERV     SAMPLING       FIG     Sample I.D.     (G) RAB OR (C) OMP.     (G) RAB OR (C) OMP.       FIG     C     1     C     1     (C) PRESERV     SAMPLING       FIG     C     1     C     1     (C) PRESERV     SAMPLING       FIG     C     1     C     1     (C) PRESERV     DATE     TIME       FIG     C     1     X     I     X     IOSIZZ     X     X     X     X     X     IOSIZZ     X     X     X     IOSIZZ     X     X     X     X     X     X     IOSIZZ     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X		0		Fax #:		
All of the length of	٦		MATRIX		Ω,	
C     1     X     10/5/22     X     X     X     X       C     1     X     10/5/22     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     <	<u>i</u>	le I.D.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER : ACID/BASE: ICE / COOL OTHER :	Chloride	BTEX 8021
C     1     X     10/5/22     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X </td <td>_</td> <td></td> <td>1 X</td> <td>×</td> <td>-</td> <td>x</td>	_		1 X	×	-	x
C     1     X     10/5/22     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X </td <td>2 112</td> <td></td> <td>1</td> <td></td> <td></td> <td>X</td>	2 112		1			X
C     1     X     10/5/22     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X     X </td <td>N FI3</td> <td></td> <td>-</td> <td></td> <td>-</td> <td>×</td>	N FI3		-		-	×
C   1   X   10/5/22   X   X   X     C   1   X   10/5/22   X   X   X   X     C   1   X   1   X   10/5/22   X   X   X   X     C   1   X   X   10/5/22   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X	d FL4	14	-		-	×
C   1   X   10/5/22   X   X   X     C   1   X   10/5/22   X   X   X   X     C   1   X   X   10/5/22   X   X   X   X     C   1   X   X   10/5/22   X   X   X   X     C   1   X   X   10/5/22   X   X   X   X     C   1   X   X   10/5/22   X   X   X   X     edv for any claim sitiling whether based in contract or tot, shall be limited to the amount fuld/22   X   X   X   X     edv for any claim vision dimeters and in writing and received by Claim with the above shaded reason or disevise.   X   X   X     dir by Cardinal writing under upon any of the above shaded reason or disevise.   Phone Result:   Yes   No     Fax Result:   Yes   No   Email results to:   pm@hungry     dipender@gy   Multitud   Multitud   Multitud   Multitud   Multitud   Multitud   Multitud     Multitud   Multitud   Multitud	A FL5		1		-	×
C   1   X   10/5/22   X   X   X     C   1   X   10/5/22   X   X   X   X     C   1   X   1   10/5/22   X   X   X   X     C   1   X   X   10/5/22   X   X   X   X     edy for any claim stating whether based in contract or tort, shall be finited to the annount paid by the client to subclaiming.   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X <td>6 FL6</td> <td></td> <td>1</td> <td></td> <td>-</td> <td>×</td>	6 FL6		1		-	×
C   1   X   10/5/22   X   X   X     C   1   X   10/5/22   X   X   X   X     edd for any claim artising whether based in contract or lot. Mall be finited to the applicable mediang whether based in contract or lot. Mall be finited to the applicable mediang whether such claim is based upon any of the above stated reasons or diservite.   X   X   X   X   X   X   I   I   I   X   I   I   I   X   I   I   I   X   I   I   I   X   I   I   I   I   X   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I	5 FL7		1		+	×
C   1   X   10/5/22   X   X   X     ch   1   X   10/5/22   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X	S FL8		1		-	×
C   1   X   10/5/22   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X   X </td <td>9 FL9</td> <td></td> <td>1</td> <td></td> <td>+</td> <td>×</td>	9 FL9		1		+	×
explor any claim arising whether based in contract or tort, shall be lended to the anopulation of the applicable     including whoult immition, business interruption, loss of the policy of profile incurred by claim is based upon any of the above stated reasons or otherwise.     Including whoult immition, business interruption, loss of the policy of profile incurred by claim. It is subsidiaries, loss of the above stated reasons or otherwise.     Including whoult immition, business interruption, loss of the policy of profile incurred by claim. It is subsidiaries, loss of the above stated reasons or otherwise.     Including the policy of the based upon any of the above stated reasons or otherwise.     Including the policy of the above stated reasons or otherwise.     Including the policy of the above stated reasons or otherwise.     Including the above stated reasons or otherwise.     Including the policy of the above stated reasons or otherwise.     Including the above stated reasons o	-		1		$\vdash$	X
And of related to the performance of senses herearder by Catalana, regression and of related by: Phone Result: Yes No   Image: No Time: Visit of the performance of senses herearder by: Male of the performance of senses herearder by: Phone Result: Yes No   Image: No Time: No Male of the performance of senses herearder by: Time: Yes No   Image: No Time: Received By: Male of the performance of senses Remarks:   Time: Time: Received By: Time: Time:	PLEASE NOTE: Lakility and Damages. Cardinat's liability and analyses. All claims including those for negligence and any t service. In no event shall Cardinal be liable for incidental or c	and client's exclusive remedy for a other cause whatsoever shall be consequental damages, including	ry claim arising whether based in contract seemed waived unless made in writing and without limitation, business interruptions, I without limitation.	or tort, shall be limited to the amount paid by the received by Cardinal within 30 days after comple (received by Cardinal within 30 days after comple (ress of use, or loss of profils incurred by client, its is been uncon so of the above stated reasons or is been uncon so of the above stated reasons or the above stated by the above s	applicab	
Indext of the second descent of the second descent de	affiliates or successors arising out of or related to the perform. Relinquished By:	Date: 0 / 12	30	110		I No
Date: Received By: Email results to:   Time: Time:	change Valouriana	Time: UU	Mulana	Millabox		
		Date:	Received By:	1	Email results to:	pm@hungry-horse.com
		Time:				dpender@gwdc.com

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

Sampler - UPS - Bus - Other:

4.0c,

a

4° #B

No No

# Page 98 of 118

1 Company Name: Project Manager:	0	101 East Marland, Hobbs, NM 88240       (575) 393-2326 FAX (575) 393-2476       :     Hungry Horse LLC       ::     Daniel Dominguez	476						-	P.O. #:	#	m	Ĩ	BILL TO				_	ANAI	ANALYSIS	REQUEST	EST	
Address: P	×									Company	par	V	G	Great Western Drilling	Drilling								
Phone #: 57	575 393-3386	Fax #:		zib.	00	1+700			_	Addre	ress	5: 7	00 1	Address: 700 W. Louisiana	la Ave.								
		Project Owner:	Gre	Great Western Drilling	Veste	ern D	Illin	B	_	City:	2	Midland	nd										
Project Name:	: South Carter SA Unit #501	nit #501	ł							State: TX	e:	×	N	Zip: 79701									
Project Location:	ion: UL/ A Sec 7 T18S - R39E	8S - R39E							_	ho	ne #	**	32-6	Phone #: 432-682-5241					_				
Sampler Name:	e: Jorge Valeriano	0							_	Fax #:	*												
FOR LAB USE ONLY	٦			-	П		MATRIX	RIX		-	PRESERV.	SER	<	SAMPLING	G								
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	SW1		0				×							10/5/22		×	×	×				-	
1	SW2		0	-			×					×		10/5/22		×	×	×				-	
15	3 SW3		C	1			×					×	-	10/5/22		×	×	×				-	
14			C		-	-	×					×	-	10/5/22		×	×	×					
12	SW5		C				×					×	-	10/5/22		×	×	×					
14	SW6		0	-			×			-		×	-	10/5/22		×	×	×				-	
1	7 SW7		0				×			-	-	×	-	10/5/22		×	×	×	-				
1	8MS		0				×					×		10/5/22		×	×	×					
PLEASE NOTE: Liability analyses. All claims incl service. In no event sha	PLEASE NOTE: Lability and Damages Cardinal's lability and client's exclusive innersy for any dama massing whether based in contract or for, small 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 lable for incidental or consequential datages, including without limitadon, business interruptions, loss of use, or loss of profiles incurred by client, its subdifiariles, service. In no event shall Cardinal be lable for incidental or consequential datages, including without limitadon, business interruptions, loss of use, or loss of profiles incurred by client, its subdifiariles, service. In no event shall Cardinal be have doremone of services howing the Cardinal researches of whether excit claim is based unco nor or the above stated researches or otherwise.	nd client's exclusive remedy tor any other cause whatsoever shall be de consequental damages, including w conce of sections hareunder by Car	eemed without	waives limitati	d unles on, bu	siness	interru	d in contract or tort, snall be litrated to the in writing and received by Cardinal within Iterruptions, loss of use, or loss of profils in reuch claim is based upon any of the abo	I of tor loss o	wed by tuse, c	Cardi or loss	of pro	thin 30 fills inco above	bedy for any claim assing whether based in contrast or tort, shall be immed to the annual pair by the events to the shall be deemed waived unless made in writing and receive by Cardinal within 30 days after completion of the including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, order two Cardinal researdness of whether such client is based uncor any of the above stated reasons or otherwise.	client for the applic subsidiaries, otherwise.	able							
Relinquished By:	By:	Date: 16/22 R	R	Received By	ivec	ved By:					7	2			Phone Result:	ult	T Yes			Add'l Phone #: Add'l Fax #:			
Jorgic Relinquished By:	hed By:	Time: US	70	Received By	Wed	BY			10	A	12	Ja.	AN 2	K	Email resu	KS: esult	ts to:	pm@hu	gn	e.com			
		Time:																dpende	dpender@gwdc.com	com			
Delivered By	Delivered By: (Circle One)		IF.	11	S	Sample	nple	Sample Condition	of itio	ň	_	R	R	CHECKED BY:									

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

Page 22 of 22



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/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/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.

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. Keine

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	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.86	92.9	2.00	0.962	
Toluene*	<0.025	0.025	10/29/2022	ND	1.82	91.0	2.00	2.50	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	1.89	94.4	2.00	0.623	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	5.80	96.7	6.00	0.847	
Total BTEX	<0.150	0.150	10/29/2022	ND					
Surrogate: Dibromofluoromethane	99.4	% 83.7-11	4						
Surrogate: Toluene-d8	94.0	% 95.3-10	7						
Surrogate: 4-Bromofluorobenzene	102	% 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	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	% 46.3-17	8						

# Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

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 - 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						

# Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

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 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						

# Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

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 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						

# Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

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 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

Celeg D. Keine

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 4 - 4' (H225036-06)

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	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						

# Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

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 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						

# Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

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 5 - 4' (H225036-08)

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	7						
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 9	% 46.3-17	8						

# Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

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 8 - 2' (H225036-09)

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	93.7	% 83.7-11	4						
Surrogate: Toluene-d8	92.9	% 95.3-10	7						
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						

# Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

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 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						

# Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 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, 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*	18.9	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						

# Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

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 9 - 4' (H225036-12)

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	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 9	% 46.3-17	8						

# Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **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 SM4500CI-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 whatscever 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 whose 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 whose share there applied by the services arise 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.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

# **CARDINAL** Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(57	(575) 393-2326 FAX (575) 393-2476	X (575	5) 393-247	6						1		1			70					AN	ANALYSIS	S		REQUEST	č	S	7						
Company Name: H	Hungry Horse LLC									+			0	E	BILLIO		-	-	-	-		ġ								$\neg$		-	 Pa
	Daniel Dominguez									1	P.O.	*	-								_		_		_			_					Г
2 L	058									0	Company	pan	Y	Gr	Great Western Drilling	gnilling														_			
<u> </u>		State: N	MN	Zip:		88241	41			Þ	Attn:	D	enn	IS P	Dennis Pender					_			_							_			
D					ł					Þ	ddr	ess.	170	V 00	Address: 700 W. Louisiana Ave	Ave.														_			
		Project Owner:	Owner:	Great Western Drilling	t We	ster	n Dr	illing		0	City:		Midland	bu																			
	South Carter SA Unit #501	501								60	State:	-1	TX	N	Zip: 79701								_							_			
1										-	Phone #:	ne #	4	32-6	432-682-5241					-					_		-					_	
Project Location:	UL/ A Sec / 1185 - KJ9E	- KJYE								+		*	H					_		_					_							_	
Sampler Name: E	Eli Dominguez								ž.	H	Fax #:		ÉD	ì	SAMPI ING		_																
FOR LAB USE ONLY				C)OMP.	RS	TER		MAIKIX	Ś				TAESEAV.						21								-						
Lab I.D.	Sample I.D.	I.D.		G)RAB OR (	# CONTAINE	GROUNDWA	WASTEWATE	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride	трн	BTEX 80	-					-		1			-		-	
SP2-2'	1.21			G	1			1		_			×	-	10/24/22		×	×	×	-				1	+		+				T	-	
	-4			G	1		12	×					×	-	10/24/22		×	×	×	+					+		+		1				
2 SP3-2	3-2'			G	1			×			-	-	×	-	10/24/22		×	×	×	-					-		+						
-	3-4"			G	-			×			-	-	×	-	10/24/22		×	×	× ×	+		1			+		+		1				
1	1-2'			G	-			×			-		×	+	10/24/22		×	< >	< >	+		+			-		+		+				
6 SP4-4	4-4'			G	-			×					×	+	10/24/22		< >	< >	< >	-		1			-		+						
7 SP5-2'	5-2'			G	-			×					×	-	10/24/22		< >	< >	× >	-		+		T	-		-						
8 SP5-4	5-4"			G	-	T		×					×	-	10/24/22		× >	× >	× >	_		1		T									
9 SP8-2'	8-2'			G	-			×					< >	1	77147701		× >	×	×			+			_		-		-				
10 SP8-4	8-4'			G	-		That	×	ontrac	t or to	d sha	l be li	X Imited to the	the a	10/24/22 mount paid by the client for the	Sent for the	~	>	>			ŀ											
PLEASE NOTE: Liability and Damages. Cardinal's liability and cli- analyses. All claims including those for negligence and any other enotion. In no event shall Cardinal be liable for incidental or conse	ages. Cardinal's liability and client's exclusive remedy for any cl e for negligence and any other cause whatsoever shall be deer be liable for incidental or consequental damages, including with	caus que	tive remedy for any tsoever shall be de mages, including v	emed v	vaived	ng wnemer pa ed unless ma ation, busines	s made	e in writing and received interruptions, loss of use	ting an ptions,	Ind rect	sived b	or los	s of pro	ofits in	explosive remedy for any claim arising winterer used in virtual or own who are set of the applicable as whatsoever shall be deemed waved unless made in writing and received by Cardinal within 30 days after completion of the applicable in a whatsoever shall be deemed waved unless interruptions, loss of use, or loss of profils incurred by client. Its utbestanties, rul damages, including without limitation, business interruptions, loss of use, or loss of use wave stated reasons of otherwise.	tion of the app subsidiaries, otherwise.	licable							1	1	1							
affiliates or successors arising out o	g out of or related to the performan	ce of services he Date:	te: 1010	R R	al, regardless of whethe Received By:	Ved	By	er suc	such claim is	100	2	1	1			Phone Result:	sult:	□ Yes	S I NO		Add'l Phone #: Add'l Fax #:	Fax	#:										
41. Don II	NONUN	Tin	Time: 1.54	PP	(	à	R	0	2	2	B	2	A	R	0	REMARKS:	RKS:						3										
Relinquished By:	ling	Date:	Date: Time:	70	Received By:	iveo	By						c	1		Email	Email results to:	to:	dpender@gwdc.com	r@gv	vdc.	com											
		$\vdash$		F			20		C	hit	B		SH	Ş	CHECKED BY:																		
	le One)		1	"井	()		Sar	Cool Intact	Intact	Yes	s \ on	1	1 5	(Initials)	als)																		
Sampler - UPS - D	Dus - Outors	2-0	1-0.1	10		ŀ	H	No	Ĕ	No	ľ	F	1		ľ																		
+ Cardinal cannot accept verbal changes. Please fax written changes to 5/5-395-24/0	accept verbal ch	anges.	Minnon fay	A A A A A A A A A A A A A A A A A A A	i			1	1	1	5	747	b																				

# Page 114 of 118

# Received by OCD: 11/3/2022 1:36:29 PM

	aboratories	4	Pes -													CHAIN-OF-CUSTODY AND ANALYSIS	Ŷ	-CU	STOD	Y AN	ID A	NAI	1×	Sis	REC	REQUEST	ST	,	of 16
1	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	Hobbs	s, NM 882	40																									ge 16
Company Name:	Hungry Horse LLC													B	BILL TO					AN	ANALYSIS		-DO	REQUEST		1	1	1	Pa
Project Manager:	Daniel Dominguez									-	P.O.	#								_		_						_	-
Address: PO B	PO Box 1058									_	Company	npa	iny		Great Western Drilling	Drilling													
휴		State:	MN	Zip:		88241	41			-	Attn:		De	nnis	Dennis Pender														
e #:	575 393-3386	Fax #:		Ī	Ļ					_	Ado	free	S:	70	Address: 700 W. Louisiana Ave	na Ave.													
··		roject	Project Owner:	Great Western Drilling	at We	ester	n Dr	illing		_	City:		Midland	llar	Ъ														
ame:	South Carter SA Unit #501	#501		Ī							State: TX	te:	XT		Zip: 79701						_						-	_	
9 L	UL/ A Sec 7 T18S	- R39E	m								Phone #:	one	*	43	432-682-5241					-									_
Sampler Name:											Fax #:	#										_							
FOR LAB USE ONLY							-	MATRIX	R			PR	PRESERV.	RV	. SAMPLING	G										_		_	
Lab I.D.	Sample I.D.	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	10				1				1.7	
11 000000	SP9-2'			G	-			×	_	2			×		10/24/22		×	×	×	-	-	-			T	1	+	+	
12	SP9-4'			G	-			×			-		×		10/24/22		×	×	×	-	-	-							
							1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	1																					
PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Can	Damages. Cardinal's liabi those for negligence and dinal be liable for incident	lient's excluse whisequental d	Iny and client's exclusive remedy for any claim arising whether based in contract or fort, shall any other cause whatsoever shall be deemed waived unless made in writing and received by at or consequential damages, including without limitation, business interruptions, loss of use , or at our consequential damages, including without limitation, business interruptions, loss of use , or and our consequential damages.	y claim a eemed w without lii	raived mitatio	whethe unless n, busi	made mess i	in wri In wri	ontrac ting ar ptions,	t or to loss	of use	all be by Ci or lo	Cardinal within r loss of profits i	d to t profit	shall be limited to the amount paid by the client for the wed by Cardinal within 30 days after completion of the applicable use, or loss of profits incurred by client, its subalianties, a successful to a successful the prospect or otherwise	int paid by the client for the ys after completion of the applic ad by client, its subsidiaries, that reasons or otherwise	able												
Relinquished By:	BY:		Date:10262	nP	Received By	ved	ed By:		10401	2	A	(14	Solo 1		R/	Phone Result: Fax Result: REMARKS:	KS:	□ Yes			Add'l Phone #: Add'l Fax #:	#: #:							
Relinquished By:	Prof and	키 및	Date: Time:	_	Received By:	ved	By				1					Email results to:	esults	s to:	pm@hungry-horse.com dpender@gwdc.com	ngry-h @gwd	orse.c	n com							
Delivered Bv: Sampler - UPS	(Circle One) - Bus - Other:	210	6-1-2-	c° #//	(L)		Samp	2 @ \ ē	Intact	No No	o s ion		0	A B B	(Initials)														
+ Cardinal cann	Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476	anges	Please fax	writ	ten	cha	nne l	n t	57	5	õ3	24.	5																

# Page 115 of 118

# Attachment V NMOCD Form C-141 Closure Page

Page 6

Oil Conservation Division

Incident ID	nJXK1613933289
District RP	
Facility ID	
Application ID	

# Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: \_Dennis Pender\_\_\_\_\_ Title: \_Environmental\_\_\_\_\_ 
 Signature:
 \_\_\_\_\_\_
 email: \_\_dpender@gwdc.com\_\_\_\_\_ Telephone: \_432-682-5241 x 141\_ **OCD Only** Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: <u>Ashley Maxwell</u> Date: <u>2/20/2023</u> Title: Environmental Specialist Printed Name: Ashley Maxwell

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

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

District III

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

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

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

CONDITIONS

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

Action 155292