



Attn: New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: **Release Investigation and Closure Report**
Chaves 6" and 10" Steel Line
Unit N, Section 12, Township 15 South, Range 29 East
33.0248282°, -103.9845827°
Chaves County, New Mexico
Terracon Project No. KH237024

To Whom It May Concern:

Terracon Consultants, Inc. (Terracon) is pleased to submit our Release Investigation and Closure Report for the site referenced above. The scope of services was developed in accordance with the New Mexico Oil Conservation Division (NMOCD) regulations concerning clean-up actions required for releases of crude oil and produced water. The investigative response actions were taken as the result of a natural gas and condensate release from a suspected corroded lateral line. The below sections detail Terracon's assessment and remediation actions in response to the noted release.

Action Items

Completed Actions

- 1) Initial site assessment and sampling events completed.
- 2) All Maps and associated data for approval have been provided
- 3) Soil samples collected were submitted to an approved analytical laboratory to determine levels of impact vertically and horizontally.
- 4) Excavation of the inferred release area was completed with the intent to remove impacted soil as determined by the Closure Criteria set by NMOCD.
- 5) All soil stockpiles on site were placed on plastic and bermed around the edges to reduce loss.
- 6) All confirmation samples were collected every 200 sq. ft.
- 7) Remedial activities were terminated when confirmation samples were collected below the NMOCD Remediation Action Levels (RALs) for Oil and Gas impacted soils.
- 8) All conditions needed for approval of closure have been met.

Frontier Field Services, LLC
Chaves 6" Steel Line
33.0248282°, -103.9845827°
NMOCD Reference # nAPP2301231426
Terracon Project # KH237024



Anticipated Actions

-
- 1) Following the collection of confirmation samples, the excavation has been backfilled and brought to the surrounding grade, and reseeded.
 - 2) Approval by the NMOCD.
-

Terracon appreciates this opportunity to provide environmental services to Frontier Field Services, LLC (Durango). Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,
Terracon Consultants, Inc.



Travis Casey
Senior Staff Scientist
Carlsbad



Erin Loyd, P.G. (TX)
Senior Principal
Office Manager – Lubbock

TABLE OF CONTENTS

Table of Contents

Section 1 – Incident Information 2

Section 2 – General Site Characteristics 3

Section 3 – Regulatory Framework and Response Action Levels..... 4

Section 4 – Remediation Activities 5

Section 5 – Remediation Confirmation Assessment 5

Section 6 – Analytical Results 5

Section 7 – Conclusion and Closure Request 5

Attachments:

Appendix A – Exhibits

- Exhibit 1 – Topographic Map
- Exhibit 2 – Site Map
- Exhibit 3 – Site Sample Map
- Exhibit 4 – NMOSE POD Location Map
- Exhibit 5 – Designated Wetland Map
- Exhibit 6 – Cave Karst Public UCP Map

Appendix B – Tables and Well Data

- Table 1 – Soil Sample Analytical Results

Appendix C – Photographic Log

Appendix D – Analytical Report and Chain of Custody

Appendix E – Initial Form C-141 and Final Form C-141

Appendix F – Terracon Standard of Care, Limitation, and

Reliance

Frontier Field Services, LLC

Chaves 6" Steel Line

33.0248282°, -103.9845827°

NMOCD Reference # nAPP2301231426

Terracon Project # KH237024

**Section 1 – Incident Information**

The following table provides detailed information regarding the January 10, 2023, natural gas, and condensate release at the Chaves 6" Steel Line (Chaves 6") site in Chaves County, New Mexico:

Required Information	Site and Release information	
Responsible party	The pipeline is operated by Frontier Field Services, LLC.	
Local contact	Contact: Mr. Guadalupe Carrasco	P: (575)-703-1804 E: gcarrasco@durangomidstream.com
NMOCD Notification	Notice of the release was provided to the NMOCD District 2 Artesia Office by Ms. Amber Groves on January 12, 2023. NMOCD Reference ID: nAPP2301231426	
Facility Description	Chaves 6" & 10" is in Chaves County, New Mexico. It is an area located within Unit N, Section 12, Township 15 South, Range 29 East, approximately 23.92 miles northeast of Artesia, New Mexico. The site is predominantly developed oil and gas Right of Way (ROW), Bureau of Land Management (BLM) owned native pastureland.	
Time of incident	January 10, 2023, discovered during routine maintenance.	
Discharge event	The natural gas pipeline leak was caused by external and internal corrosion. The Site is illustrated in Exhibits 1 and 2 of Appendix A	
Type of discharge	The documented natural gas release occurred in a ROW, BLM-owned, native pastureland area. Soils at the site are affected at the surface and beyond the depth of the pipeline.	
Quantity of spilled material	Total Fluids: 4 bbls	Natural Gas: 288.99 Mcf
Site characteristics	Relatively flat with drainage following the natural ground surface; very gently sloping to the north.	
Immediate corrective actions	The leaking pipeline was closed in at the nearest isolation valve, blown down, and clamped. A backhoe was utilized to excavate impacted soils around the line to discover the source of the release.	

Frontier Field Services, LLC

Chaves 6" Steel Line

33.0248282°, -103.9845827°

NMOCD Reference # nAPP2301231426

Terracon Project # KH237024



Section 2 – General Site Characteristics

Physical Characteristic	Site Ranking Characteristics
<p>Groundwater NMOSE POD Location Map – (Exhibit 6 in Appendix A)</p>	<p><u>POD Number:</u> (L-14514 POD 1) <u>Depth to Groundwater:</u> 77 ft. bgs <u>Distance to Well:</u> 3.06 miles to the southeast <u>Date Drilled:</u> August 09, 2018 <u>Groundwater Quality:</u> Groundwater quality at the site is predominately used for agricultural reasons.</p>
<p>Surface Water NM Wetland Map – (Exhibit 7 in Appendix A)</p>	<p>Freshwater Pond (unnamed), is approximately 1.23 miles to the southwest.</p>
<p>100-Year Flood Plain</p>	<p>This site is located outside the 100-year flood plain of the Pecos River.</p>
<p>Soil Characteristics</p>	<p>Soils at the site are mapped as Faskin-Roswell Complex Sand series soils, 0 to 3 percent slopes, well-drained, 8 to 15 inches single-grained; many fine roots; very porous; neutral; gradual smooth boundary. (15 to 23 inches thick). The formation is categorized with a medium runoff classification.</p>
<p>Karst Characterization Cave Karst Public UCP Map – (Exhibit 8 in Appendix A)</p>	<p>Terracon evaluated data from the NMOCD Public UCP Site, Karst map designations in reference to the site location. The site appears to be within a low-level Karst risk area. Based on on-site observations within the extent of the release margins, the potential for Karst formations in this specific area are of low potential, as illustrated in Exhibit 6. Restrictive features were not encountered from surface to 60 inches below grade surface (bgs) within the release margins. The full extent of release quantities and excavation activities did not extend greater than 60 inches bgs.</p>

Frontier Field Services, LLC

Chaves 6" Steel Line

33.0248282°, -103.9845827°

NMOCD Reference # nAPP2301231426

Terracon Project # KH237024



Section 3 – Regulatory Framework and Response Action Levels

Oil and gas exploration and production facilities in New Mexico are generally regulated by the New Mexico Oil Conservation Division (NMOCD). The NMOCD has issued the *Closure Criteria for Soils Impacted by a Release, June 21, 2018*, and *Restoration, Reclamation, and Re-vegetation (19.15.29.13) NMAC – D (Reclamation of areas no longer in use)* as guidance documents for the remediation and reclamation of sites impacted by releases from oil and gas exploration and production activities. Sections detailed below the applicability of these guidance documents to the site-specific characteristics associated with the Chaves 6".

Section 3.1 – Reclamation Levels (Surface to 4 ft. bgs)

The below Reclamation Limits for chlorides, TPH (GRO+DRO+MRO), BTEX (includes benzene, toluene, ethylbenzene, and xylenes), and benzene are defined within the New Mexico Administration Code (NMAC) *Restoration, Reclamation, and Re-vegetation (19.15.29.13) New Mexico Administration Code (NMAC) – D (Reclamation of areas no longer in use)* for soils extending to 4 ft. bgs.:

Constituent	Remediation Limits
Chloride	600 mg/kg
TPH (GRO+DRO+MRO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Section 3.2 – Remediation Levels (> 4 ft. bgs)

Based on the site-specific characteristics, and the informed depth to groundwater, the applicable NMOCD remediation levels for Total BTEX, chloride, and TPH within soils, exclusive of the Reclamation Zone (surface to 4 ft. bgs), are as follows:

Constituent	Remediation Limit
Chloride	10,000 mg/kg
TPH (GRO+DRO+MRO)	2,500 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Frontier Field Services, LLC

Chaves 6" Steel Line

33.0248282°, -103.9845827°

NMOCD Reference # nAPP2301231426

Terracon Project # KH237024

**Section 4 – Remediation Activities**

On May 11, 15-17, 19-20, 2023, Terracon mobilized to the site to meet Gandy Construction personnel to perform soil remediation activities. Areas exhibiting visual impact were excavated to a depth of approximately 2 to 12 feet bgs.

Approximately 360 cubic yards of soil were excavated and stockpiled atop a polyethylene liner pending waste characterization and disposal under an approved Form C-138. Excavation efforts ceased based on the results of composite soil sample laboratory analysis indicating no remaining material was above NMOCD RALs. Excavated materials were disposed of at Gandy Landfill Station.

Section 5 - Remediation Confirmation Assessment

A total of 49 composite soil samples (N-SW, S-SW, E-SW, W-SW, and FS-01 through FS-12) were collected from the excavation, placed in laboratory-provided sample containers, preserved with ice, and transported under a chain of custody to Cardinal Laboratories in Hobbs, New Mexico for analysis of BTEX, TPH, and chlorides.

Section 6 – Analytical Results

On May 11, 15-17, 19-20, and July 3, 2023, 49 composite samples were collected, and 22 of the samples exhibited concentrations of TPH above the laboratory SDLs. Thirteen samples above the laboratory SDLs, resulted in concentrations of TPH below the NMOCD RAL closure criteria of 2,500 mg/kg, and ranged from 10.9 mg/kg in soil sample E-SW-4 at 0-4 feet, to 590 mg/kg in soil sample FS 13 at 4 feet. Nine samples exceeded the NMOCD RAL closure criteria of 100 mg/kg above 4 feet. These 9 samples were remediated and resampled. All resamples exhibited concentrations of TPH below the laboratory SDLs.

All soil samples collected from the excavation area exhibited concentrations of chloride below the NMOCD RAL closure criteria of 10,000 mg/kg and ranged from 32.0 mg/kg in FS-11 at 4 feet to 896 mg/kg in soil sample FS 05 at 11 feet. Nine samples exceeded the NMOCD RAL closure criteria of 600 mg/kg above 4 feet. These 9 samples were remediated and resampled. Six of the resamples exhibited concentrations of chloride above the laboratory SDLs and ranged from 32 mg/kg in soil sample FS 09 at 2 feet, to 16 mg/kg in soil sample W-SW-1.1 at 0-4 feet.

A summary of BTEX, chloride, and TPH concentrations of all collected soil samples is attached as Table 1.

Frontier Field Services, LLC

Chaves 6" Steel Line

33.0248282°, -103.9845827°

NMOCD Reference # nAPP2301231426

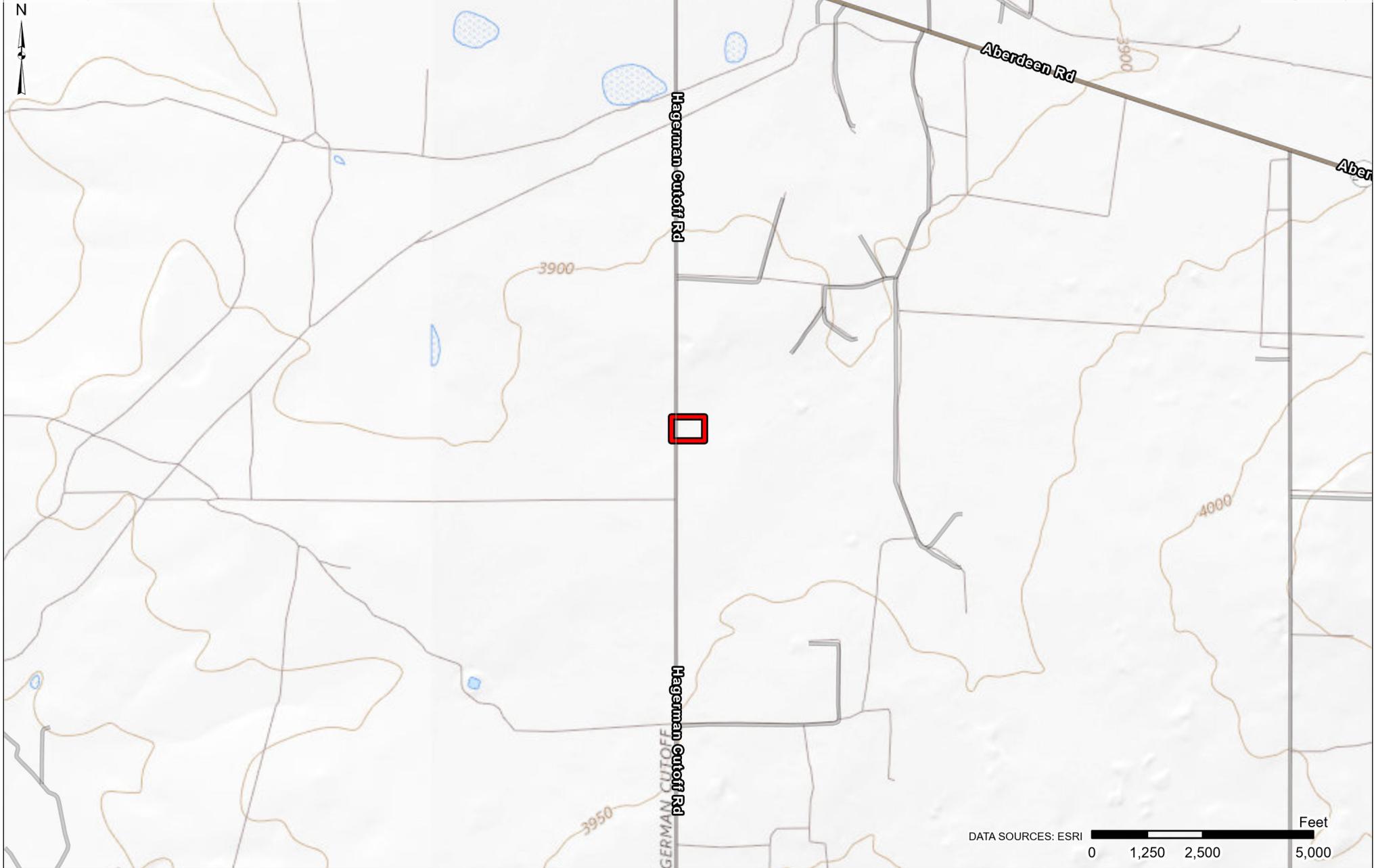
Terracon Project # KH237024



Section 7 – Conclusion and Closure Request

In accordance with NMAC 19.15.29.12, remediation of the impacted material is complete, and Terracon along with Frontier Field Services respectfully requests closure of the incident nAPP2301231426.

APPENDIX A – EXHIBITS



 Site Location

Project No.:
KH237024

Date:
Jun 19 2023

Drawn By:
JWL

Reviewed By:
BSM



Terracon

4518 W Pierce St
Carlsbad, NM

PH. 806-300-0140 terracon.com

Topographic Map

Chaves 6" & 10" Steel Line LP
33.0248282° -103.9845827°
Chaves County, New Mexico

Exhibit

1



DATA SOURCES: Bing Feet



Excavation Boundary

Project No.:
KH237024
Date:
Jul 03 2023
Drawn By:
JWL
Reviewed By:
BSM



4518 W Pierce St
Carlsbad, NM

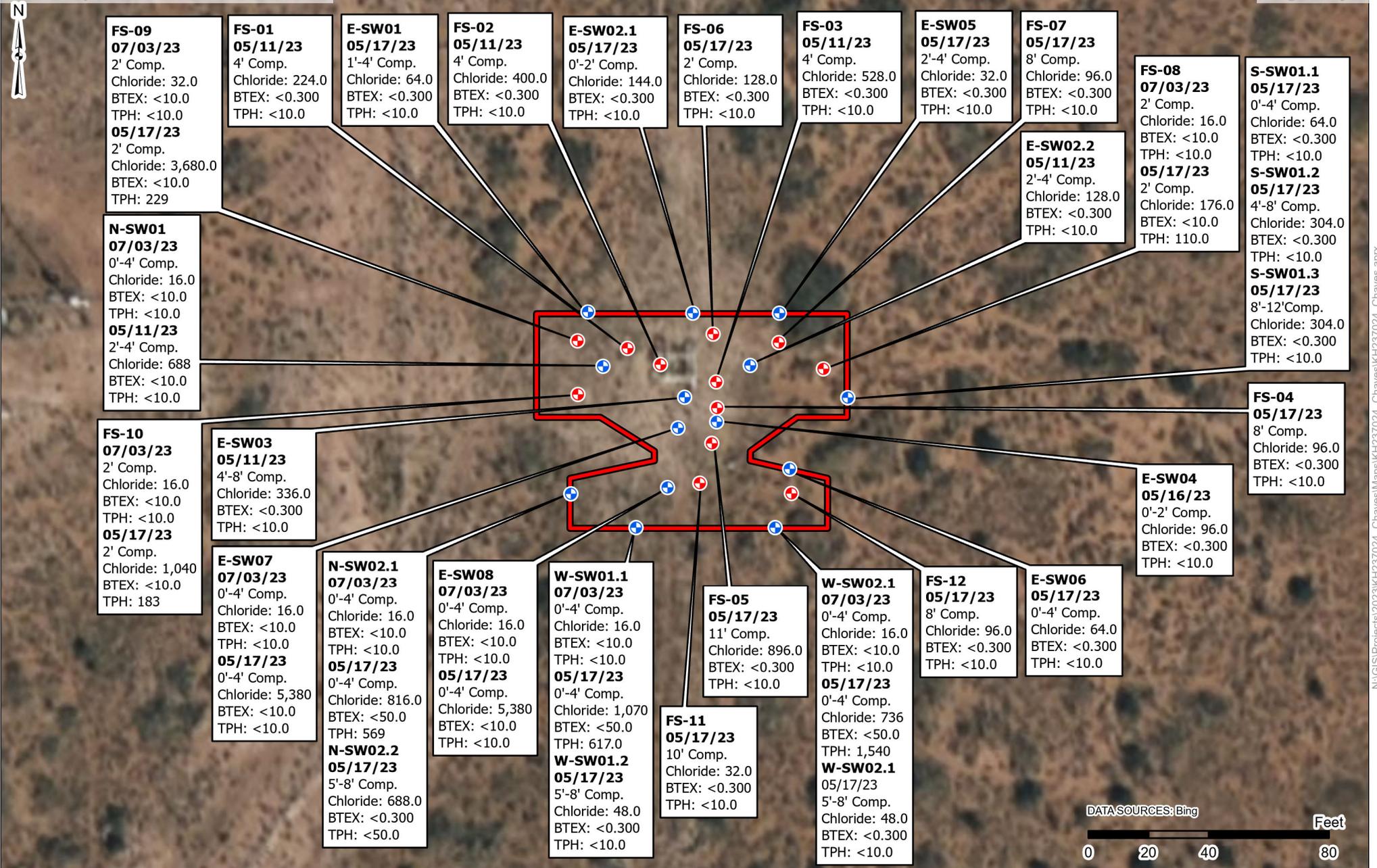
PH. 806-300-0140 terracon.com

Site Map

Chaves 6" & 10" Steel Line LP
33.0248282° -103.9845827°
Chaves County, New Mexico

Exhibit

2



Excavation Boundary

Sample Location

- ⊕ Floor
- ⊕ Wall

Project No.: KH237024
 Date: Jul 13 2023
 Drawn By: JWJ
 Reviewed By: BSM

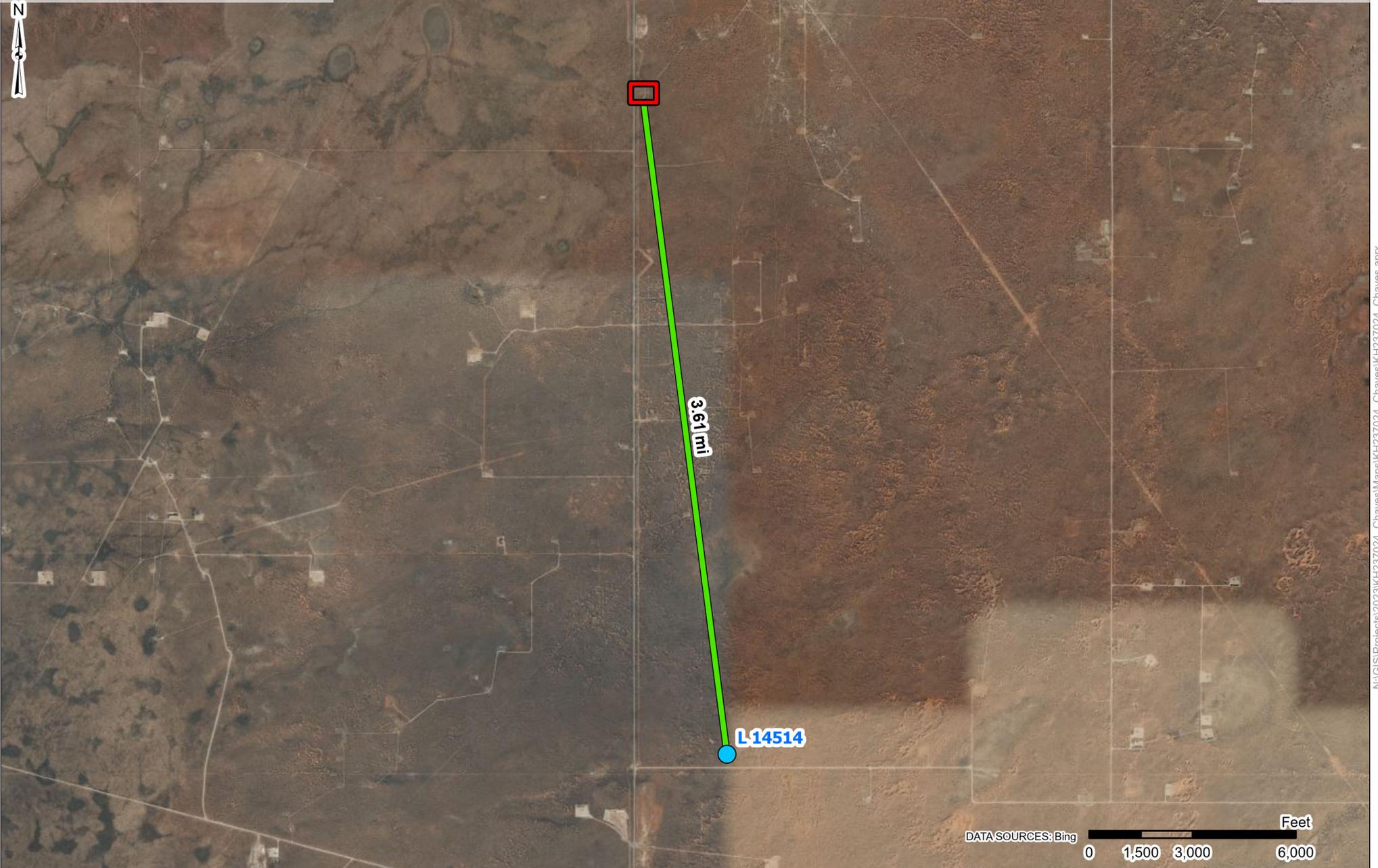
4518 W Pierce St
 Carlsbad, NM
 PH. 806-300-0140 terracon.com

Site Sample Map

Chaves 6" & 10" Steel Line LP
 33.0248282° -103.9845827°
 Chaves County, New Mexico

Exhibit

3



- Site Location
- NMOSE POD Location

Project No.: KH237024
 Date: Jun 19 2023
 Drawn By: JWJ
 Reviewed By: BSM



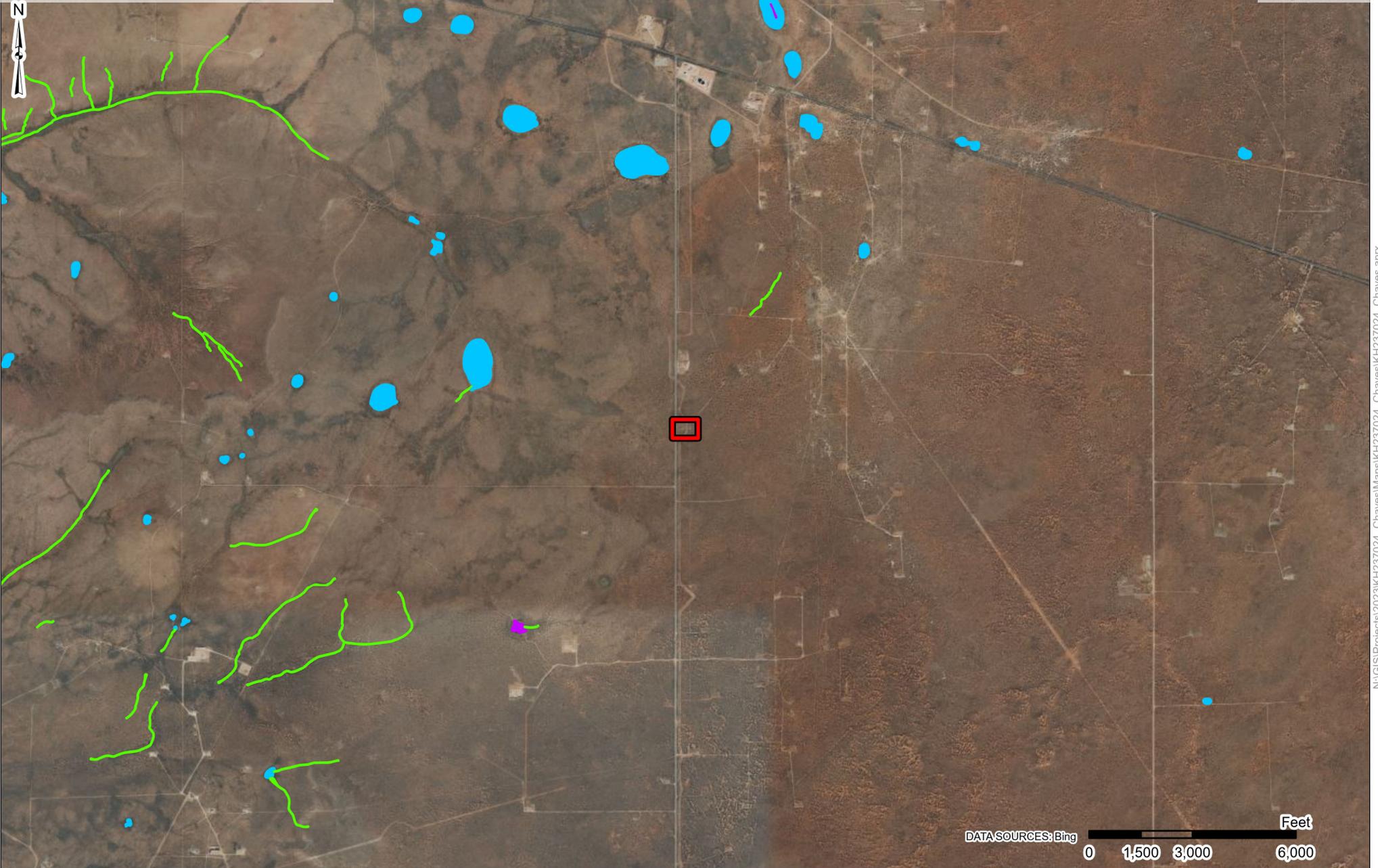
4518 W Pierce St
 Carlsbad, NM
 PH. 806-300-0140 terracon.com

NMOSE POD Location Map

Chaves 6" & 10" Steel Line LP
 33.0248282° -103.9845827°
 Chaves County, New Mexico

Exhibit

4



- Site Location
- Freshwater Emergent Wetland
- Freshwater Pond
- Riverine

Project No.:
KH237024

Date:
Jun 19 2023

Drawn By:
JWL

Reviewed By:
BSM



4518 W Pierce St
Carlsbad, NM

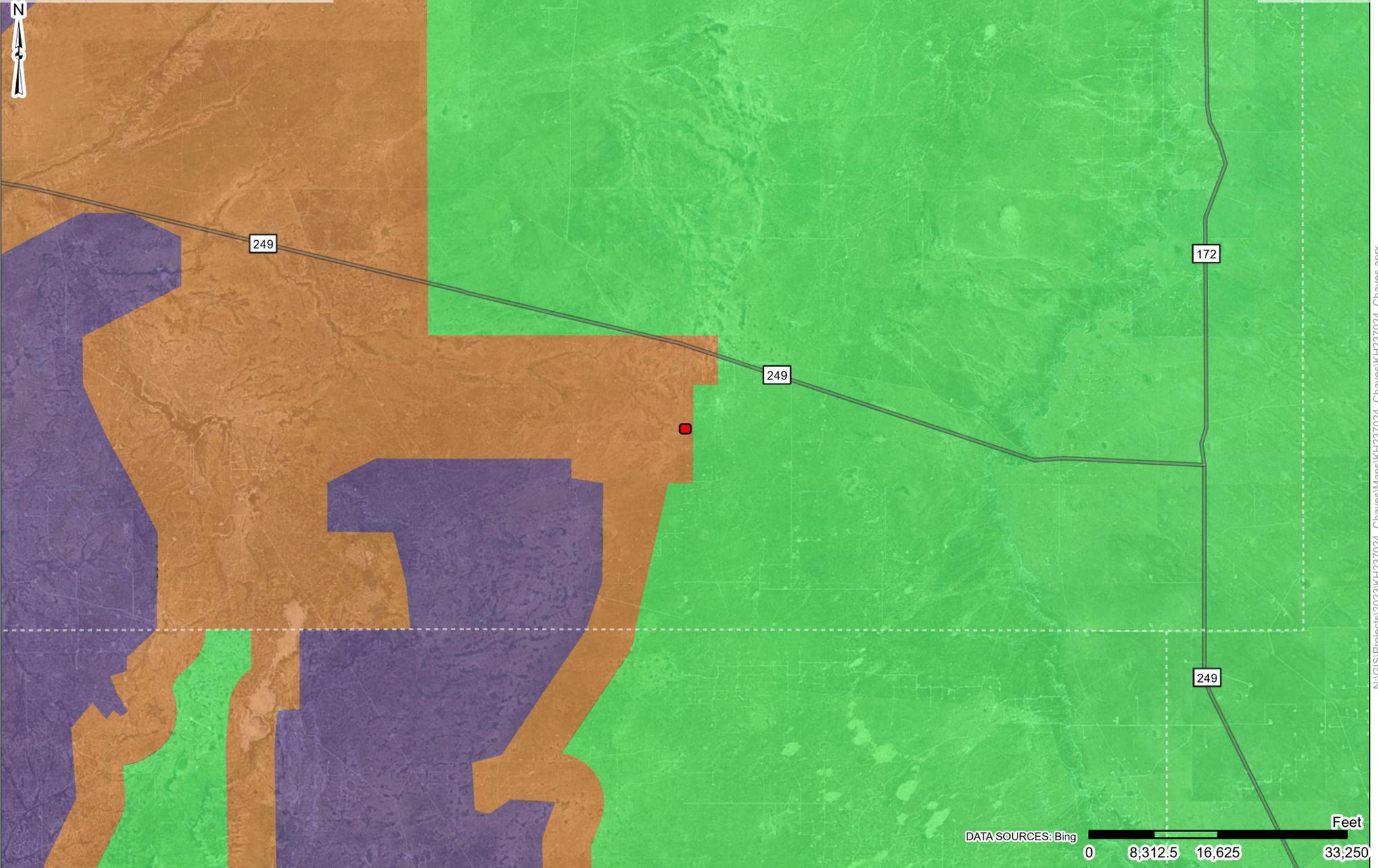
PH. 806-300-0140 terracon.com

Designated Wetland Map

Chaves 6" & 10" Steel Line LP
33.0248282° -103.9845827°
Chaves County, New Mexico

Exhibit

5



-  Site Location
- Karst Potential**
-  Low
-  Medium
-  High

Project No.:
KH237024

Date:
Jul 05 2023

Drawn By:
JWL

Reviewed By:
BSM



Terracon

4518 W Pierce St
Carlsbad, NM

PH. 806-300-0140 terracon.com

Cave Karst Public UPC Map

Chaves 6" & 10" Steel Line LP
33.0248282° -103.9845827°
Chaves County, New Mexico

Exhibit

6

APPENDIX B – TABLES AND WELL DATA

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS - BTEX¹, Chloride², and TPH³
Chaves 6"

Terracon Project No. KH237024

Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Sample Date	BTEX (mg/kg)	Chloride (mg/kg)	TPH (8015M) (mg/kg)		
						GRO	DRO	EXT DRO
						Confirmation Samples (Off Pad)		
N-SW-1	2-4'	Comp	05/11/23	Benzene - <0.050	688	<10.0	<10.0	<10.0
				Total BTEX - <0.300				
N-SW-1	0-4'	Comp	07/03/23	Benzene - <0.050	16.0	<10.0	<10.0	<10.0
				Total BTEX - <0.300				
N-SW 02	0-4'	Comp	05/17/23	Benzene - <0.050	816	<50.0	569	105
				Total BTEX - <0.300				
N-SW 02	5-8'	Comp	05/17/23	Benzene - <0.050	688	<50.0	1,240	227
				Total BTEX - <0.300				
N-SW 02	0-4'	Comp	07/03/23	Benzene - <0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX - <0.300				
E-SW-1	1-4'	Comp	05/11/23	Benzene - <0.050	64.0	<10.0	<10.0	<10.0
				Total BTEX - <0.300				
E-SW-2	0-2'	Comp	05/17/23	Benzene - <0.050	144	<10.0	65.8	14.7
				Total BTEX - <0.300				
E-SW-2	2-4'	Comp	05/11/23	Benzene - <0.050	128	<10.0	<10.0	<10.0
				Total BTEX - <0.300				
E-SW-3	4-8'	Comp	05/11/23	Benzene - <0.050	336	<10.0	42.8	<10.0
				Total BTEX - <0.300				
E-SW-4	0-2'	Comp	05/16/23	Benzene - <0.050	96	<10.0	10.9	<10.0
				Total BTEX - <0.300				
E-SW-5	0-2'	Comp	05/17/23	Benzene - <0.050	32	<10.0	<10.0	<10.0
				Total BTEX - <0.300				
E-SW 06	0-4'	Comp	05/17/23	Benzene - <0.050	64.0	<10.0	<10.0	<10.0
				Total BTEX - <0.300				
E-SW 07	0-4'	Comp	05/17/23	Benzene - <0.050	5,680	<10.0	<10.0	<10.0
				Total BTEX - <0.300				
E-SW 07	0-4'	Comp	07/03/23	Benzene - <0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX - <0.300				
E-SW 08	0-4'	Comp	05/17/23	Benzene - <0.050	5,680	<10.0	<10.0	<10.0
				Total BTEX - <0.300				
E-SW 08	0-4'	Comp	07/03/23	Benzene - <0.050	<16.0	<10.0	<10.0	<10.0
				Total BTEX - <0.300				
E-SW 09	0-4'	Comp	05/17/23	Benzene - <0.050	96.0	<10.0	<10.0	<10.0
				Total BTEX - <0.300				
NMOCD Reclamation Standards⁴ (Applicable for Soils from the Surface to 4 ft. Below Grade Surface)				Benzene - 10	600	100		
NMOCD Remediation and Delineation Standards⁵ (Applicable for Soils at Depths Greater than 4 ft. Below Grade Surface)				Benzene - 10	10,000	2,500		
				Total BTEX - 50				
				Total BTEX - 50				

1. BTEX = Benzene, toluene, ethylbenzene, total xylenes analyzed by EPA Method 8021B

2. Chloride = Chloride analyzed by EPA Method 300.

3. TPH = Total petroleum hydrocarbons analyzed by EPA Method 8015M (GRO/DRO/MRO)

4. New Mexico Administration Code (NMAC) Restoration, Reclamation, and Re-vegetation (19.15.29.13) New Mexico Administration Code (NMAC) – D (Reclamation of areas no longer in use) for soils extending to 4 ft. bgs

5. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards are proposed in 19.15.29.12 NMAC - N, 8/14/2018

< = Constituent not detected above the indicated laboratory SDL

NA = Not Analyzed

N/A = Not Applicable

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS - BTEX¹, Chloride², and TPH³
Chaves 6"

Terracon Project No. KH237024

Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Sample Date	BTEX (mg/kg)	Chloride (mg/kg)	TPH (8015M) (mg/kg)		
						GRO	DRO	EXT DRO
						Confirmation Samples (Off Pad)		
S-SW-1	0-4'	Comp	05/17/23	Benzene - <0.050	64.0	<10.0	<10.0	<10.0
				Total BTEX - <0.300				
S-SW-1	4-8'	Comp	05/17/23	Benzene - <0.050	304	<10.0	24.5	<10.0
				Total BTEX - <0.300				
S-SW-1	8-12'	Comp	05/17/23	Benzene - <0.050	304	<10.0	236	60.6
				Total BTEX - <0.300				
S-SW-02	0-4'	Comp	05/19/23	Benzene - <0.050	64.0	<10.0	<10.0	<10.0
				Total BTEX - <0.300				
S-SW-02	5-8'	Comp	05/17/23	Benzene - <0.050	48.0	<10.0	<10.0	<10.0
				Total BTEX - <0.300				
S-SW-3	0-4'	Comp	05/19/23	Benzene - <0.050	96.0	<10.0	14.0	<10.0
				Total BTEX - <0.300				
S-SW-4	0-4'	Comp	05/20/23	Benzene - <0.050	80.0	<10.0	<10.0	<10.0
				Total BTEX - <0.300				
W-SW 01	0-4'	Comp	05/17/23	Benzene - <0.050	1,070	<50.0	617	66.6
				Total BTEX - 0.659				
W-SW 01	5-8'	Comp	05/17/23	Benzene - <0.050	48.0	<10.0	<10.0	<10.0
				Total BTEX - <0.300				
W-SW 01	0-4'	Comp	07/03/23	Benzene - <0.050	16.0	<10.0	<10.0	<10.0
				Total BTEX - <0.300				
W-SW 02	0-4'	Comp	05/17/23	Benzene - 0.065	736	<50.0	1,540	273
				Total BTEX - 1.78				
W-SW 02	5-8'	Comp	05/17/23	Benzene - <0.050	48.0	<10.0	<10.0	<10.0
				Total BTEX - <0.300				
W-SW 02	0-4'	Comp	07/03/23	Benzene - <0.050	16.0	<10.0	<10.0	<10.0
				Total BTEX - <0.300				
FS-1	4'	Comp	05/11/23	Benzene - <0.050	224	<10.0	53.6	10.0
				Total BTEX - <0.300				
FS-2	4'	Comp	05/11/23	Benzene - <0.050	400	<10.0	53.8	<10.0
				Total BTEX - <0.300				
FS-3	4'	Comp	05/11/23	Benzene - <0.050	528	<10.0	91.0	16.9
				Total BTEX - <0.300				
NMOCD Reclamation Standards⁴ (Applicable for Soils from the Surface to 4 ft. Below Grade Surface)				Benzene - 10	600	<50.0	100	
				Total BTEX - 50				
NMOCD Remediation and Delineation Standards⁵ (Applicable for Soils at Depths Greater than 4 ft. Below Grade)				Benzene - 10	10,000	<50.0	2,500	
				Total BTEX - 50				

1. BTEX = Benzene, toluene, ethylbenzene, total xylenes analyzed by EPA Method 8021B

2. Chloride = Chloride analyzed by EPA Method 300.

3. TPH = Total petroleum hydrocarbons analyzed by EPA Method 8015M (GRO/DRO/MRO)

4. New Mexico Administration Code (NMAC) Restoration, Reclamation, and Re-vegetation (19.15.29.13) New Mexico Administration Code (NMAC) – D (Reclamation of areas no longer in use) for soils extending to 4 ft. bgs

5. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards are proposed in 19.15.29.12 NMAC - N, 8/14/2018

< = Constituent not detected above the indicated laboratory SDL

NA = Not Analyzed

N/A = Not Applicable

Bold and Highlight denotes concentrations that exceed the New Mexico Oil Conservation Division (NMOCD) Reclamation and/or Remediation and Delineation Standards.

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS - BTEX¹, Chloride², and TPH³
Chaves 6"
Terracon Project No. KH237024

Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Sample Date	BTEX (mg/kg)	Chloride (mg/kg)	TPH (8015M) (mg/kg)		
						GRO	DRO	EXT DRO
						Confirmation Samples (Off Pad)		
FS-4	8'	Comp	05/17/23	Benzene - <0.050	96.0	<10.0	<10.0	<10.0
				Total BTEX - 0.370				
FS 05	11'	Comp	05/17/23	Benzene - <0.050	896	<10.0	388	103
				Total BTEX - <0.300				
FS 06	2'	Comp	05/17/23	Benzene - <0.050	128	<10.0	27.5	<10.0
				Total BTEX - <0.300				
FS 07	8'	Comp	05/17/23	Benzene - <0.050	96.0	<10.0	<10.0	<10.0
				Total BTEX - <0.300				
FS 08	2'	Comp	05/17/23	Benzene - <0.050	176	<10.0	110	12.9
				Total BTEX - <0.300				
FS 08	2'	Comp	07/03/23	Benzene - <0.050	16.0	<10.0	<10.0	<10.0
				Total BTEX - <0.300				
FS 09	2'	Comp	05/17/23	Benzene - <0.050	3,680	<10.0	229	50.2
				Total BTEX - <0.300				
FS 09	2'	Comp	07/03/23	Benzene - <0.050	32.0	<10.0	<10.0	<10.0
				Total BTEX - <0.300				
FS 10	2'	Comp	05/17/23	Benzene - <0.050	1,040	<10.0	183	28.0
				Total BTEX - <0.300				
FS 10	2'	Comp	07/03/23	Benzene - <0.050	16.0	<10.0	<10.0	<10.0
				Total BTEX - <0.300				
FS 11	10'	Comp	05/17/23	Benzene - <0.050	32	<10.0	<10.0	<10.0
				Total BTEX - <0.300				
FS 12	8'	Comp	05/17/23	Benzene - <0.050	96.0	<10.0	<10.0	<10.0
				Total BTEX - <0.300				
FS 13	4'	Comp	05/19/23	Benzene - <0.050	544	<10.0	481	109
				Total BTEX - <0.300				
FS 14	4'	Comp	05/19/23	Benzene - <0.050	352	<10.0	289	56.1
				Total BTEX - <0.300				
FS 15	4'	Comp	05/19/23	Benzene - <0.050	336	<10.0	265	58.2
				Total BTEX - <0.300				
FS 16	4'	Comp	05/19/23	Benzene - <0.050	112	<10.0	164	34.0
				Total BTEX - <0.300				
NMOCD Reclamation Standards⁴ (Applicable for Soils from the Surface to 4 ft. Below Grade Surface)				Benzene - 10	600	100		
				Total BTEX - 50				
NMOCD Remediation and Delineation Standards⁵ (Applicable for Soils at Depths Greater than 4 ft. Below Grade)				Benzene - 10	10,000	2,500		
				Total BTEX - 50				

1. BTEX = Benzene, toluene, ethylbenzene, total xylenes analyzed by EPA Method 8021B
2. Chloride = Chloride analyzed by EPA Method 300.
3. TPH = Total petroleum hydrocarbons analyzed by EPA Method 8015M (GRO/DRO/MRO)
4. New Mexico Administration Code (NMAC) Restoration, Reclamation, and Re-vegetation (19.15.29.13) New Mexico Administration Code (NMAC) – D (Reclamation of areas no longer in use) for soils extending to 4 ft. bgs
5. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards are proposed in 19.15.29.12 NMAC - N, 8/14/2018
< = Constituent not detected above the indicated laboratory SDL
NA = Not Analyzed
N/A = Not Applicable

Bold and Highlight denotes concentrations that exceed the New Mexico Oil Conservation Division (NMOCD) Reclamation and/or Remediation and Delineation Standards.



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
20765	L 14514 POD1	2	2	1	32	15S	36E	595494	3649622

Driller License: 1611	Driller Company: GOERTZEN DRILLING	
Driller Name: JOHN GOERTZEN		
Drill Start Date: 08/09/2018	Drill Finish Date: 08/10/2018	Plug Date:
Log File Date: 08/17/2018	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 5.00	Depth Well: 208 feet	Depth Water: 77 feet

Water Bearing Stratifications:	Top	Bottom	Description
	104	125	Sandstone/Gravel/Conglomerate
	125	150	Sandstone/Gravel/Conglomerate
	150	160	Sandstone/Gravel/Conglomerate
	162	175	Other/Unknown
	175	185	Sandstone/Gravel/Conglomerate
	185	202	Sandstone/Gravel/Conglomerate
	202	205	Other/Unknown
	205	208	Other/Unknown

Casing Perforations:	Top	Bottom
	0	208

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.

5/11/23 9:00 AM

POINT OF DIVERSION SUMMARY

APPENDIX C – PHOTOGRAPHIC LOG

Chaves 6" & 10" ■ Eddy County, New Mexico
June 26, 2023 ■ Terracon Project No. KH237024



PHOTO 1: View of east wall after excavation



PHOTO 4: View of north wall after excavation

Responsive ■ Resourceful ■ Reliable

Chaves 6" & 10" ■ Eddy County, New Mexico
June 26, 2023 ■ Terracon Project No. KH237024



PHOTO 3: View of south and west walls after excavation

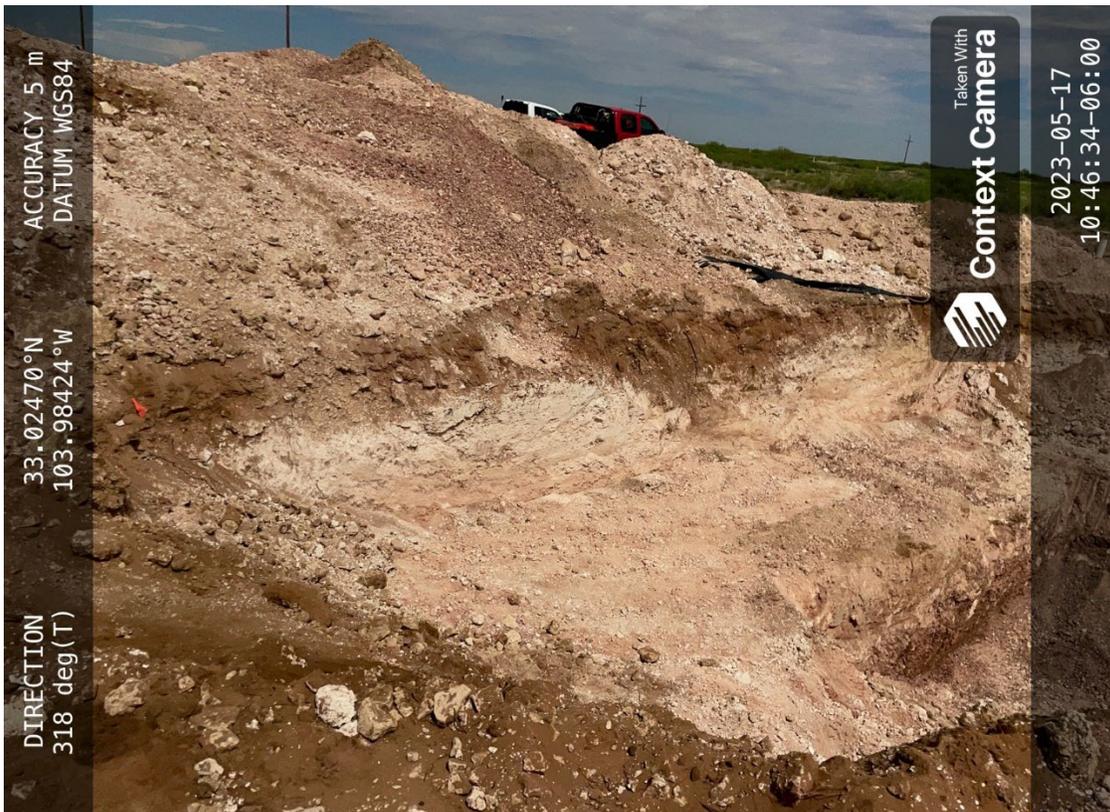


PHOTO 4: View of south wall after excavation

Responsive ■ Resourceful ■ Reliable

Chaves 6" & 10" ■ Eddy County, New Mexico
June 26, 2023 ■ Terracon Project No. KH237024



PHOTO 5: View of east wall after excavation

Responsive ■ Resourceful ■ Reliable

APPENDIX D – ANALYTICAL REPORT AND CHAIN OF CUSTODY



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

May 17, 2023

JOSEPH GUESNIER
TERRACON CONSULTANTS
5827 50TH ST. SUITE 1
LUBBOCK, TX 79424

RE: CHAVES 6-INCH

Enclosed are the results of analyses for samples received by the laboratory on 05/12/23 10:55.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/12/2023	Sampling Date:	05/11/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	CHAVES 6-INCH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO		

Sample ID: E - SW - 1 1-4' (H232391-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	1.52	
Toluene*	<0.050	0.050	05/15/2023	ND	2.24	112	2.00	0.0359	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.40	120	2.00	1.46	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	7.16	119	6.00	2.69	
Total BTEX	<0.300	0.300	05/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/15/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/13/2023	ND	231	116	200	3.05	
DRO >C10-C28*	<10.0	10.0	05/13/2023	ND	214	107	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	05/13/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/12/2023	Sampling Date:	05/11/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	CHAVES 6-INCH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO		

Sample ID: E - SW - 2 2-4' (H232391-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	1.52	
Toluene*	<0.050	0.050	05/15/2023	ND	2.24	112	2.00	0.0359	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.40	120	2.00	1.46	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	7.16	119	6.00	2.69	
Total BTEX	<0.300	0.300	05/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/15/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/13/2023	ND	231	116	200	3.05	
DRO >C10-C28*	<10.0	10.0	05/13/2023	ND	214	107	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	05/13/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/12/2023	Sampling Date:	05/11/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	CHAVES 6-INCH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO		

Sample ID: E - SW - 3 4-8' (H232391-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	1.52	
Toluene*	0.051	0.050	05/15/2023	ND	2.24	112	2.00	0.0359	
Ethylbenzene*	0.062	0.050	05/15/2023	ND	2.40	120	2.00	1.46	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	7.16	119	6.00	2.69	
Total BTEX	<0.300	0.300	05/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	05/15/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/13/2023	ND	206	103	200	5.14	
DRO >C10-C28*	42.8	10.0	05/13/2023	ND	204	102	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	05/13/2023	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/12/2023	Sampling Date:	05/11/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	CHAVES 6-INCH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO		

Sample ID: N - SW - 1 2-4' (H232391-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	1.52	
Toluene*	<0.050	0.050	05/15/2023	ND	2.24	112	2.00	0.0359	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.40	120	2.00	1.46	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	7.16	119	6.00	2.69	
Total BTEX	<0.300	0.300	05/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	05/15/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/13/2023	ND	206	103	200	5.14	
DRO >C10-C28*	<10.0	10.0	05/13/2023	ND	204	102	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	05/13/2023	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/12/2023	Sampling Date:	05/11/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	CHAVES 6-INCH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO		

Sample ID: FS - 1 4' (H232391-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	1.52	
Toluene*	<0.050	0.050	05/15/2023	ND	2.24	112	2.00	0.0359	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.40	120	2.00	1.46	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	7.16	119	6.00	2.69	
Total BTEX	<0.300	0.300	05/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/15/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/13/2023	ND	206	103	200	5.14	
DRO >C10-C28*	53.6	10.0	05/13/2023	ND	204	102	200	3.14	
EXT DRO >C28-C36	10.0	10.0	05/13/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/12/2023	Sampling Date:	05/11/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	CHAVES 6-INCH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO		

Sample ID: FS - 2 4' (H232391-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	1.52	
Toluene*	<0.050	0.050	05/15/2023	ND	2.24	112	2.00	0.0359	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.40	120	2.00	1.46	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	7.16	119	6.00	2.69	
Total BTEX	<0.300	0.300	05/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	05/15/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/13/2023	ND	206	103	200	5.14	
DRO >C10-C28*	53.8	10.0	05/13/2023	ND	204	102	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	05/13/2023	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/12/2023	Sampling Date:	05/11/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	CHAVES 6-INCH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO		

Sample ID: FS - 3 4' (H232391-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	1.52	
Toluene*	<0.050	0.050	05/15/2023	ND	2.24	112	2.00	0.0359	
Ethylbenzene*	<0.050	0.050	05/15/2023	ND	2.40	120	2.00	1.46	
Total Xylenes*	<0.150	0.150	05/15/2023	ND	7.16	119	6.00	2.69	
Total BTEX	<0.300	0.300	05/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	05/15/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/13/2023	ND	206	103	200	5.14	
DRO >C10-C28*	91.0	10.0	05/13/2023	ND	204	102	200	3.14	
EXT DRO >C28-C36	16.9	10.0	05/13/2023	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/12/2023	Sampling Date:	05/11/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	CHAVES 6-INCH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO		

Sample ID: FS - 4 8' (H232391-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2023	ND	2.11	105	2.00	1.52	
Toluene*	0.057	0.050	05/15/2023	ND	2.24	112	2.00	0.0359	
Ethylbenzene*	0.126	0.050	05/15/2023	ND	2.40	120	2.00	1.46	
Total Xylenes*	0.187	0.150	05/15/2023	ND	7.16	119	6.00	2.69	
Total BTEX	0.370	0.300	05/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	05/15/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/13/2023	ND	206	103	200	5.14	
DRO >C10-C28*	470	10.0	05/13/2023	ND	204	102	200	3.14	
EXT DRO >C28-C36	124	10.0	05/13/2023	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

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

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

May 22, 2023

JOSEPH GUESNIER
TERRACON CONSULTANTS
5827 50TH ST. SUITE 1
LUBBOCK, TX 79424

RE: CHAVES 6-INCH

Enclosed are the results of analyses for samples received by the laboratory on 05/16/23 11:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/16/2023	Sampling Date:	05/15/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	CHAVES 6-INCH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO		

Sample ID: S - SW - 1 0-4' (H232451-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2023	ND	2.22	111	2.00	5.36	
Toluene*	<0.050	0.050	05/18/2023	ND	2.29	115	2.00	7.28	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.22	111	2.00	7.69	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.87	114	6.00	7.05	
Total BTEX	<0.300	0.300	05/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	203	101	200	20.5	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	217	108	200	26.5	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/16/2023	Sampling Date:	05/15/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	CHAVES 6-INCH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO		

Sample ID: S - SW - 1 4-8' (H232451-02)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2023	ND	2.22	111	2.00	5.36	
Toluene*	<0.050	0.050	05/18/2023	ND	2.29	115	2.00	7.28	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.22	111	2.00	7.69	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.87	114	6.00	7.05	
Total BTEX	<0.300	0.300	05/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	203	101	200	20.5	
DRO >C10-C28*	24.5	10.0	05/17/2023	ND	217	108	200	26.5	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 66.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.8 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 05/16/2023
 Reported: 05/22/2023
 Project Name: CHAVES 6-INCH
 Project Number: NONE GIVEN
 Project Location: DURANGO

Sampling Date: 05/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - SW - 1 8-12' (H232451-03)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2023	ND	2.22	111	2.00	5.36	
Toluene*	<0.050	0.050	05/18/2023	ND	2.29	115	2.00	7.28	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.22	111	2.00	7.69	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.87	114	6.00	7.05	
Total BTEX	<0.300	0.300	05/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	203	101	200	20.5	
DRO >C10-C28*	236	10.0	05/17/2023	ND	217	108	200	26.5	
EXT DRO >C28-C36	60.6	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.4 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/16/2023	Sampling Date:	05/15/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	CHAVES 6-INCH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO		

Sample ID: E - SW - 2 0-2' (H232451-04)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2023	ND	2.11	106	2.00	2.98	
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	4.82	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.23	112	2.00	4.93	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.56	109	6.00	5.45	
Total BTEX	<0.300	0.300	05/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	203	101	200	20.5	
DRO >C10-C28*	65.8	10.0	05/17/2023	ND	217	108	200	26.5	
EXT DRO >C28-C36	14.7	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 70.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.1 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/16/2023	Sampling Date:	05/15/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	CHAVES 6-INCH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO		

Sample ID: E - SW - 0 0-2' (H232451-05)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2023	ND	2.11	106	2.00	2.98	
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	4.82	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.23	112	2.00	4.93	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.56	109	6.00	5.45	
Total BTEX	<0.300	0.300	05/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	203	101	200	20.5	
DRO >C10-C28*	10.9	10.0	05/17/2023	ND	217	108	200	26.5	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/16/2023	Sampling Date:	05/15/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	CHAVES 6-INCH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO		

Sample ID: E - SW - 5 0-2' (H232451-06)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2023	ND	2.11	106	2.00	2.98	
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	4.82	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.23	112	2.00	4.93	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.56	109	6.00	5.45	
Total BTEX	<0.300	0.300	05/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	203	101	200	20.5	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	217	108	200	26.5	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/16/2023	Sampling Date:	05/15/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	CHAVES 6-INCH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO		

Sample ID: FS - 9 2' (H232451-07)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2023	ND	2.11	106	2.00	2.98	
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	4.82	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.23	112	2.00	4.93	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.56	109	6.00	5.45	
Total BTEX	<0.300	0.300	05/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	05/17/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	203	101	200	20.5	
DRO >C10-C28*	229	10.0	05/17/2023	ND	217	108	200	26.5	
EXT DRO >C28-C36	50.2	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/16/2023	Sampling Date:	05/15/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	CHAVES 6-INCH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO		

Sample ID: FS - 11 10' (H232451-08)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2023	ND	2.11	106	2.00	2.98	
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	4.82	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.23	112	2.00	4.93	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.56	109	6.00	5.45	
Total BTEX	<0.300	0.300	05/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/17/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	203	101	200	20.5	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	217	108	200	26.5	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/16/2023	Sampling Date:	05/15/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	CHAVES 6-INCH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO		

Sample ID: FS - 8 2' (H232451-09)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2023	ND	2.11	106	2.00	2.98	
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	4.82	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.23	112	2.00	4.93	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.56	109	6.00	5.45	
Total BTEX	<0.300	0.300	05/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/17/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	158	78.9	200	2.80	
DRO >C10-C28*	110	10.0	05/17/2023	ND	158	78.9	200	0.380	
EXT DRO >C28-C36	12.9	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 77.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.0 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/16/2023	Sampling Date:	05/11/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	CHAVES 6-INCH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO		

Sample ID: FS - 5 11' (H232451-10)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2023	ND	2.11	106	2.00	2.98	
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	4.82	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.23	112	2.00	4.93	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.56	109	6.00	5.45	
Total BTEX	<0.300	0.300	05/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	05/17/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	158	78.9	200	2.80	
DRO >C10-C28*	388	10.0	05/17/2023	ND	158	78.9	200	0.380	
EXT DRO >C28-C36	103	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 79.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/16/2023	Sampling Date:	05/15/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	CHAVES 6-INCH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO		

Sample ID: FS - 7 2' (H232451-11)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2023	ND	2.11	106	2.00	2.98	
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	4.82	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.23	112	2.00	4.93	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.56	109	6.00	5.45	
Total BTEX	<0.300	0.300	05/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/17/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	158	78.9	200	2.80	
DRO >C10-C28*	209	10.0	05/17/2023	ND	158	78.9	200	0.380	
EXT DRO >C28-C36	36.6	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/16/2023	Sampling Date:	05/15/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	CHAVES 6-INCH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO		

Sample ID: FS - 10 2' (H232451-12)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2023	ND	2.11	106	2.00	2.98	
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	4.82	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.23	112	2.00	4.93	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.56	109	6.00	5.45	
Total BTEX	<0.300	0.300	05/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	05/17/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	158	78.9	200	2.80	
DRO >C10-C28*	183	10.0	05/17/2023	ND	158	78.9	200	0.380	
EXT DRO >C28-C36	28.0	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/16/2023	Sampling Date:	05/15/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	CHAVES 6-INCH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO		

Sample ID: FS - 6 2' (H232451-13)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2023	ND	2.11	106	2.00	2.98	
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	4.82	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.23	112	2.00	4.93	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.56	109	6.00	5.45	
Total BTEX	<0.300	0.300	05/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/17/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	158	78.9	200	2.80	
DRO >C10-C28*	27.5	10.0	05/17/2023	ND	158	78.9	200	0.380	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.6 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Terracon **BILL TO** ANALYSIS REQUEST

Project Manager: Joseph Guesnier P.O. #:

Address: 4518 W. Perce Street Company: *Durango*

City: Carlsbad State: NM Zip: 88220 Attn: *Lupe Infesco*

Phone #: 8065077057 Fax #: Address:

Project #: Project Owner: City: State: Zip:

Project Name: *Chaves 6"* Phone #: Fax #:

Project Location: State: Zip:

Sampler Name: Travis Casey

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chloride (EPA Method 4500)	TPH Extended 8015	BTEX (EPA Method 8021B)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<i>H232K51</i>	<i>S-SW-1</i>	<i>0-4'</i>	<i>1</i>	<input checked="" type="checkbox"/>						<i>5-15-23</i>	<i>2:29</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<i>S-SW-1</i>	<i>4-8'</i>	<i>1</i>	<input checked="" type="checkbox"/>						<i>5-15-23</i>	<i>10:08</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<i>S-SW-1</i>	<i>8-12'</i>	<i>1</i>	<input checked="" type="checkbox"/>						<i>5-15-23</i>	<i>10:11</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<i>E-SU-2</i>	<i>0-2'</i>	<i>1</i>	<input checked="" type="checkbox"/>						<i>5-15-23</i>	<i>10:23</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<i>E-SW-0</i>	<i>0-2'</i>	<i>1</i>	<input checked="" type="checkbox"/>						<i>5-15-23</i>	<i>10:18</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<i>E-SW-S</i>	<i>0-2'</i>	<i>1</i>	<input checked="" type="checkbox"/>						<i>5-15-23</i>	<i>10:25</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<i>FS-9</i>	<i>2'</i>	<i>1</i>	<input checked="" type="checkbox"/>						<i>5-15-23</i>	<i>10:15</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<i>FS-11</i>	<i>10'</i>	<i>1</i>	<input checked="" type="checkbox"/>						<i>5-15-23</i>	<i>10:28</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<i>FS-8</i>	<i>2'</i>	<i>1</i>	<input checked="" type="checkbox"/>						<i>5-15-23</i>	<i>10:06</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated releases or other releases.

Relinquished By: *[Signature]* Date: *5-16-23* Time: *11:50* Received By: *[Signature]*

Relinquished By: *[Signature]* Date: *5-16-23* Time: *11:50* Received By: *[Signature]*

Delivered By: (Circle One) Observed Temp. °C *4.0* Sample Condition Intact Cool Intact

Sampler - UPS - Bus - Other: Corrected Temp. °C *3.4* Sample Condition Intact Cool Intact

Turnaround Time: Standard Rush Bacteria (only) Sample Condition Observed Temp. °C Corrected Temp. °C

REMARKS: *Joseph.guesnier@terracon.com; travis.casey@terracon.com; austin.worley@terracon.com; michael.adams@terracon.com*



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Terracon

BILL TO

ANALYSIS REQUEST

Project Manager: Joseph Guesnier

P.O. #:

Address: 4518 W. Perice Street

Company: *Burnwaq*

City: Carlsbad

State: NM Zip: 88220

Attn: *Lupe Carasco*

Phone #: 8065077057

Fax #:

Address:

Project #:

Project Owner:

Project Name: *Ames 6"*

State: Zip:

Project Location:

Phone #:

Sampler Name: Travis Casey

Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chloride (EPA Method 4500)	TPH Extended 8015	BTEX (EPA Method 8021B)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<i>H032451</i>														
	<i>10 FS-5</i>									<i>5-11-23 11:15</i>				
	<i>11 FS-7</i>									<i>5-15-23 10:03</i>				
	<i>12 FS-10</i>									<i>5-15-23 10:13</i>				
	<i>13 FS-6</i>									<i>5-15-23 10:02</i>				

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *[Signature]*

Date: *5/16-23*

Received By: *[Signature]*

Verbal Result: Yes No Add'l Phone #:

All Results are emailed. Please provide Email address:

Relinquished By: *[Signature]*

Date: *1/5/20*

Received By: *[Signature]*

REMARKS: joseph.guesnier@terracon.com; travis.casey@terracon.com; austin.worley@terracon.com; michael.adams@terracon.com

Delivered By: (Circle One)

Observed Temp.: *4.0* °C

Sample Condition: Intact Cool Yes No

CHECKED BY: *[Signature]*

Turnaround Time: Standard Rush

Bacteria (only) Cool Intact Yes No

Sample Condition: Observed Temp. °C

Corrected Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp.: *3.4* °C

Sample Condition: Yes No

CHECKED BY: *[Signature]*

Thermometer ID #113

Correction Factor: -0.5°C

Sample Condition: Observed Temp. °C

Corrected Temp. °C

FORM 5006 R 3-12-10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

May 23, 2023

JOSEPH GUESNIER
TERRACON CONSULTANTS
5827 50TH ST. SUITE 1
LUBBOCK, TX 79424

RE: CHAVES 6" & 10"

Enclosed are the results of analyses for samples received by the laboratory on 05/17/23 14:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/17/2023	Sampling Date:	05/17/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	CHAVES 6" & 10"	Sampling Condition:	Cool & Intact
Project Number:	KH237024	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO - LEA		

Sample ID: N-SW 02 0-4' (H232500-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2023	ND	2.36	118	2.00	4.23	
Toluene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	4.90	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.25	113	2.00	4.65	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.87	114	6.00	3.07	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	05/18/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	05/19/2023	ND	191	95.4	200	2.92	
DRO >C10-C28*	569	50.0	05/19/2023	ND	186	92.8	200	7.40	
EXT DRO >C28-C36	105	50.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/17/2023	Sampling Date:	05/17/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	CHAVES 6" & 10"	Sampling Condition:	Cool & Intact
Project Number:	KH237024	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO - LEA		

Sample ID: N-SW 02 5-8' (H232500-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2023	ND	2.36	118	2.00	4.23	
Toluene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	4.90	
Ethylbenzene*	0.077	0.050	05/20/2023	ND	2.25	113	2.00	4.65	
Total Xylenes*	0.216	0.150	05/20/2023	ND	6.87	114	6.00	3.07	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	05/18/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	05/19/2023	ND	191	95.4	200	2.92	
DRO >C10-C28*	1240	50.0	05/19/2023	ND	186	92.8	200	7.40	
EXT DRO >C28-C36	227	50.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/17/2023	Sampling Date:	05/17/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	CHAVES 6" & 10"	Sampling Condition:	Cool & Intact
Project Number:	KH237024	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO - LEA		

Sample ID: W-SW 01 0-4' (H232500-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2023	ND	2.36	118	2.00	4.23	
Toluene*	0.068	0.050	05/20/2023	ND	2.32	116	2.00	4.90	
Ethylbenzene*	0.234	0.050	05/20/2023	ND	2.25	113	2.00	4.65	
Total Xylenes*	0.358	0.150	05/20/2023	ND	6.87	114	6.00	3.07	
Total BTEX	0.659	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	05/18/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	05/19/2023	ND	191	95.4	200	2.92	
DRO >C10-C28*	617	50.0	05/19/2023	ND	186	92.8	200	7.40	
EXT DRO >C28-C36	66.6	50.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 05/17/2023
 Reported: 05/23/2023
 Project Name: CHAVES 6" & 10"
 Project Number: KH237024
 Project Location: DURANGO - LEA

Sampling Date: 05/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W-SW 01 5-8' (H232500-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2023	ND	2.36	118	2.00	4.23	
Toluene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	4.90	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.25	113	2.00	4.65	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.87	114	6.00	3.07	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/18/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	191	95.4	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	186	92.8	200	7.40	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 54.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 52.9 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/17/2023	Sampling Date:	05/17/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	CHAVES 6" & 10"	Sampling Condition:	Cool & Intact
Project Number:	KH237024	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO - LEA		

Sample ID: W-SW 02 0-4' (H232500-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.065	0.050	05/20/2023	ND	2.36	118	2.00	4.23	
Toluene*	0.313	0.050	05/20/2023	ND	2.32	116	2.00	4.90	
Ethylbenzene*	0.379	0.050	05/20/2023	ND	2.25	113	2.00	4.65	
Total Xylenes*	1.03	0.150	05/20/2023	ND	6.87	114	6.00	3.07	
Total BTEX	1.78	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	05/18/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	05/19/2023	ND	191	95.4	200	2.92	
DRO >C10-C28*	1540	50.0	05/19/2023	ND	186	92.8	200	7.40	
EXT DRO >C28-C36	273	50.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 05/17/2023
 Reported: 05/23/2023
 Project Name: CHAVES 6" & 10"
 Project Number: KH237024
 Project Location: DURANGO - LEA

Sampling Date: 05/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W-SW 02 5-8' (H232500-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2023	ND	2.36	118	2.00	4.23	
Toluene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	4.90	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.25	113	2.00	4.65	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.87	114	6.00	3.07	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/18/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2023	ND	191	95.4	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	186	92.8	200	7.40	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.3 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/17/2023	Sampling Date:	05/17/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	CHAVES 6" & 10"	Sampling Condition:	Cool & Intact
Project Number:	KH237024	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO - LEA		

Sample ID: S-SW 02 5-8' (H232500-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2023	ND	2.36	118	2.00	4.23		
Toluene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	4.90		
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.25	113	2.00	4.65		
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.87	114	6.00	3.07		
Total BTEX	<0.300	0.300	05/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/18/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	191	95.4	200	2.92		
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	186	92.8	200	7.40		
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND						

Surrogate: 1-Chlorooctane 52.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 50.7 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/17/2023	Sampling Date:	05/17/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	CHAVES 6" & 10"	Sampling Condition:	Cool & Intact
Project Number:	KH237024	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO - LEA		

Sample ID: FS 12 (H232500-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2023	ND	2.36	118	2.00	4.23	
Toluene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	4.90	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.25	113	2.00	4.65	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.87	114	6.00	3.07	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/18/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	191	95.4	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	186	92.8	200	7.40	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 82.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	05/17/2023	Sampling Date:	05/17/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	CHAVES 6" & 10"	Sampling Condition:	Cool & Intact
Project Number:	KH237024	Sample Received By:	Tamara Oldaker
Project Location:	DURANGO - LEA		

Sample ID: E-SW 06 0-4' (H232500-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2023	ND	2.36	118	2.00	4.23	
Toluene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	4.90	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.25	113	2.00	4.65	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.87	114	6.00	3.07	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/18/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	191	95.4	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	186	92.8	200	7.40	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Terracon

Project Manager: Joseph Guesnier

Address: 4518 W. Perice Street

City: Carlsbad

Phone #: 8065077057

State: NM Zip: 88220

Project #: KH237024

Project Name: Charles 6" & 10" Durango

Project Location: Free

Sampler Name: Travis Casey

FOR LAB USE ONLY

BILL TO

P.O. #:

Company: Durango

Attn: Traci Carasco

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chloride (EPA Method 4500)	TPH Extended 8015	BTEX (EPA Method 8021B)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H232502	N-SW 02	C	1	X	X	X	X	X	X	5/12	11:00	X	X	X
	N-SW 02	C	1	X	X	X	X	X	X		11:02	X	X	X
	W-SW 01	C	1	X	X	X	X	X	X		11:04	X	X	X
	W-SW 01	C	1	X	X	X	X	X	X		11:06	X	X	X
	W-SW 02	C	1	X	X	X	X	X	X		11:08	X	X	X
	W-SW 02	C	1	X	X	X	X	X	X		11:10	X	X	X
	S-SW 02	C	1	X	X	X	X	X	X		11:12	X	X	X
	FS 12	C	1	X	X	X	X	X	X		11:49	X	X	X
	E-SW 06	C	1	X	X	X	X	X	X		11:52	X	X	X

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: [Signature] Date: 3-17-23 Received By: [Signature]

Delivered By: (Circle One) [Signature]

Observed Temp.: 5.4 Corrected Temp.: 4.8

Sample Condition: Cool Intact [checked] Bacteria (only) Sample Condition: Cool Intact [checked]

Turnaround Time: Standard [checked] Rush [] Thermometer ID #113 Correction Factor: -0.5°C

REMARKS: joesph.guesnier@terracon.com; travis.casey@terracon.com; ausstn.worley@terracon.com; michael.adams@terracon.com

APPENDIX E – INITIAL C-141 AND FINAL C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Incident ID	nAPP2301231426
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Frontier Field Services, LLC	OGRID 221115
Contact Name Amber Groves	Contact Telephone 575-703-7992
Contact email agroves@durangomidstream.com	Incident # (assigned by OCD)
Contact mailing address 47 Conoco Rd, Maljamar NM 88264	

Location of Release Source

Latitude 33.02477 Longitude -103.98419
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Chaves 6" Steel Line	Site Type Pipeline
Date Release Discovered 1/10/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
N	12	15S	29E	Chaves

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) 4	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 288.99	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
External & Internal corrosion on bottom of pipeline.

Incident ID	nAPP2301231426
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?

Initial Response

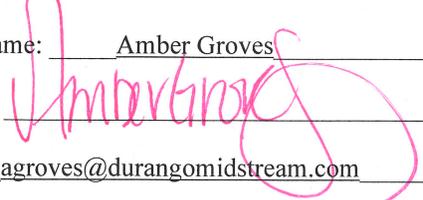
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

- The source of the release has been stopped.
- The impacted area has been secured to protect human health and the environment.
- Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Amber Groves Title: Senior Environmental Specialist
 Signature:  Date: 1/12/2023
 email: agroves@durangomidstream.com Telephone: (575)703-7992

OCD Only
 Received by: _____ Date: _____



Gas Volume Release Report

Gas Release Volume Calculator		
Date:	1/10/2023	
Site or Line Name:	Chaves 6" Steel Line	
Area of Hole in Pipe:	0.25	square inches
Absolute Pressure:	50.7	psia - absolute pressure (psia = psig gauge pressure + 14.7)
Duration of Release:	300.00	minutes
Actual Temperature:	66	Degrees F
Representative Gas Analysis	Please attach or email a representative gas analysis	

Constants		
Temperature at standard conditions:	60	Deg. F
Pressure at standard conditions:	14.7	PSIA
Volume of Gas - ACF	85.05	MACF
Volume of Gas - SCF	289.99	MSCF

Notes
Entered by user
Calculated Value
Constant



Liquid Volume Release Report

Liquid Release Volume Calculator								
Date:	1/10/2023							
Site or Line Name:	Chaves 6" Steel Line							
Soil Type	Porosity	Length	Width	Depth (.083 per inch)	Cubic Feet	Estimated Barrels	Soil Type	
Clay	0.15				0	0.00	Clay	
Sandy Clay	0.12				0	0.00	Sandy Clay	
Silt	0.16				0	0.00	Silt	
Fine Sand	0.16				0	0.00	Fine Sand	
Medium Sand	0.25				0	0.00	Medium Sand	
Coarse Sand	0.26				0	0.00	Coarse Sand	
Gravelly Sand	0.26	24.75	14	0.249	86.2785	4.00	Gravelly Sand	
Fine Gravel	0.26				0	0.00	Fine Gravel	
Medium Gravel	0.20				0	0.00	Medium Gravel	
Coarse Gravel	0.18				0	0.00	Coarse Gravel	
Sandstone	0.25				0	0.00	Sandstone	
Siltstone	0.18				0	0.00	Siltstone	
Limestone	0.13				0	0.00	Limestone	
Basalt	0.19				0	0.00	Basalt	
Standing Liquids	X				0	0.00	Standing Liquids	

Choose the one prevailing ground type for estimating spill volumes at a single location. Standing liquids are figured separately using the green cell.

Note that the depth should be measured in feet and tenths of feet (1 inch = .083)

Cubic Feet = L x W x D
 Estimated Barrels = ((Cubic Feet x Porosity) / 5.61)

Incident ID	nAPP2301231426
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	___ 77 ___ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2301231426
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Lupe Carrasco Title: Sr. Environmental Specialist

Signature: *Lupe Carrasco* Date: 7/21/23

email: gcarrasco@durangomidstream.com Telephone: 575-725-0787

OCD Only

Received by: Shelly Wells Date: 7/21/2023

Incident ID	nAPP2301231426
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Lupe Carrasco Title: Sr. Environmental Specialist
 Signature: *Lupe Carrasco* Date: 7/21/23
 email: gcarrasco@durangomidstream.com Telephone: 575-725-0787

OCD Only

Received by: Shelly Wells Date: 7/21/2023

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

Incident ID	nAPP2301231426
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: Lupe Carrasco Title: Sr. Environmental Specialist
 Signature: *Lupe Carrasco* Date: 7/21/23
 email: gcarrasco@durangomidstream.com Telephone: 575-725-0787

OCD Only

Received by: Shelly Wells Date: 7/21/2023

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: 11/29/2023
 Printed Name: Ashley Maxwell Title: Environmental Specialist

APPENDIX F – TERRACON STANDARD OF CARE, LIMITATION, AND RELIANCE

Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time. Terracon makes no warranties, either express or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report. These services were performed in accordance with the scope of work agreed with you, Durango Midstream LLC, as reflected in our proposal (PKH227021).

Additional Scope Limitations

The development of this Amended RAP is based upon information provided by the Client and Terracon's remediation and construction services line. Such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, nondetectable, or not present during these services. We cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those by information provided by the Client. The data, interpretations, findings, and recommendations are based solely upon reformation executed within the scope of these services.

Reliance

This report has been prepared for the exclusive use of Durango Midstream LLC, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of Durango Midstream LLC and Terracon. Any unauthorized distribution or reuse is at Durango Midstream LLC sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the proposal and Durango Midstream LLC and Terracon's Master Services Agreement. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon's liability to Durango Midstream LLC and all relying parties unless otherwise agreed in writing.

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

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

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

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

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

CONDITIONS

Action 243117

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 243117
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	11/29/2023