

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

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

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 type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Incident ID	
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 type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> 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 _____	Title: _____
Signature: <u>Patricia Espinoza</u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: _____	Date: _____

Facility Name & Number:		Sopapilla SWD Flex Leak				
Asset Area:		hConcho, Lea County				
Release Discovery Date & Time:		5/25/2021				
Release Type:		Produced Water				
Provide any known details about the event:		Lat 32.29802, Lon -103.56710,SWD flex line damaged by unknown party, OFF LOCATION				
Spill Calculation - Subsurface Spill - Rectangle						
Was the release on pad or off-pad?					See reference table below	
Has it rained at least a half inch in the last 24 hours?					See reference table below	
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	24.0	23.0	8.00	15.12%	65.504	9.904
Rectangle B					0.000	0.000
Rectangle C					0.000	0.000
Rectangle D					0.000	0.000
Rectangle E					0.000	0.000
Rectangle F					0.000	0.000
Rectangle G					0.000	0.000
Rectangle H					0.000	0.000
Rectangle I					0.000	0.000
Rectangle J					0.000	0.000
Total Volume Release:						9.904



January 3, 2024

District Supervisor
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

**Re: Closure Request
ConocoPhillips Company (Heritage COG Operating LLC)
Sopapilla State 2D CTB Flex Line Release
Unit Letter M, Section 15, Township 23 South, Range 33 East
Lea County, New Mexico
Incident ID: NAPP2115525504**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (ConocoPhillips) to evaluate a release that occurred along a flex line associated with the Sopapilla State 2D Central Tank Battery (CTB). The release footprint is located in Public Land Survey System (PLSS) Unit Letter M, Section 15, Township 23 South, and Range 33 East, in Lea County, New Mexico (Site). The approximate release point coordinates are 32.29802°, -103.56710°. The Site location is shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico C-141 Initial Report, the release was discovered on May 25, 2021, and approximately 10 barrels (bbls) of crude oil was reported to have been released due to damage caused by internal corrosion within a flex line. This release reportedly occurred in the pasture along the flex line connected to the Sopapilla CTB, and eventually flowed south onto the adjacent lease road. Based upon the reported spill calculator form, the release impacted approximately 552 square feet of surface area. Vacuum trucks were dispatched to remove the freestanding fluids; however, no fluids were reported recovered. The C-141 Form is included in Appendix A.

The New Mexico Oil Conservation Division (NMOCD) was notified of the release on June 4, 2021. The NMOCD received the initial C-141 on June 6, 2021, and subsequently assigned the release the Incident ID NAPP2115525504. An extension request was filed with the NMOCD on August 24, 2021 for an additional 30 days following the initial 90 days. The extension request for a revised due date of September 25, 2021 was approved by the NMOCD via email on August 26, 2021. The email correspondence from the NMOCD regarding the extension is found in Appendix B.

SITE CHARACTERIZATION

A site characterization was performed and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). The Site is in an area of low karst potential.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there were no water wells within 800 meters (approximately ½ mile) radius of the Site. Expanding the search radius to 3,200 meters, four (4) water wells were present with the average depth to ground water at 400 feet below ground surface (bgs). The site characterization data is included in Appendix C.

Tetra Tech

901 West Wall St., Suite 100, Midland, TX 79701

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com

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ConocoPhillips

The remediation action levels proposed for the Site are largely dependent upon depth to groundwater. As such, the NMOCD focuses upon depth to water estimation. Thus, 19.15.11(A)(2) NMAC allows for various means of determining depth to groundwater.

For this release, as the available water level information was from a well further than ½ mile away from the Site and the data was more than 25 years old, ConocoPhillips elected to drill a boring to depth for groundwater verification. On August 31, 2021, a licensed well drilling subcontractor was onsite to drill a groundwater determination borehole to 55 feet bgs. The borehole was located within a ½-mile radius of the release footprint. The borehole was dry upon completion, and soils were dry from surface to total depth. The depth to groundwater in the area was thus verified as greater than 55 feet bgs. The borehole was plugged with 3/8-inch bentonite chips on August 31, 2021. The borehole coordinates are 32.298042°, -103.567104° and the boring location is indicated on Figure 3. The boring log (BH-2) is included in Appendix D.

REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the remediation RRALs for the Site are as follows:

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

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule (19.15.29 NMAC)* (September 6, 2019), the following reclamation requirements for surface soils (0-4 feet bgs) outside of active oil and gas operations are as follows:

Constituent	Reclamation Requirements
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg

2021 SITE ASSESSMENT AND DELINEATION

The approximate release extent is shown in Figure 3. In order to properly characterize the release footprint and achieve horizontal and vertical delineation of the release extent, Tetra Tech personnel conducted soil sampling on June 25, 2021. A total of ten (10) auger holes were installed within and outside the area in the vicinity of the reported release footprint. Four (4) auger holes (AH-1 through AH-4) were installed inside the release area to achieve vertical delineation. Six (6) auger holes (H-1 through H-6) were installed along the perimeter of the estimated release extent to achieve horizontal delineation. Soil samples collected were field screened for salinity parts per million (ppm) using an ExStik II EC 400 meter.

A total of twenty-two (22) samples were collected from the ten (10) auger holes and submitted to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico to be analyzed for chlorides via Standard Method 4500-Cl, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B.

Results from the June 2021 soil sampling event are summarized in Table 1. Analytical results associated with the sample locations AH-3 and AH-4 exceeded reclamation RRALs for chlorides (600 mg/kg) in the upper 4 feet. Analytical results associated with AH-3 exceeded the reclamation RRALs for TPH (100 mg/kg)

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in the 0-1 foot bgs interval. Analytical results from soil sample below four feet in AH-3 and AH-4 did not exceed the proposed remediation RRALs for chloride of 10,000 mg/kg.

There were no other analytical results from samples collected in June 2021 which exceeded the Site RRALs for TPH, chlorides, or BTEX in the perimeter or the interior boring locations. The analytical results associated with the remainder of the samples analyzed were below the Site remediation and reclamation RRALs for all constituents. However, after review of the analytical results from the sampling events, additional delineation was required following the June 2021 soil assessment activities.

On August 31, 2021 Tetra Tech personnel returned to the Site to complete three (3) soil borings (BH-1 through BH-3) using an air rotary drilling rig, to delineate and clarify the release extent in the vicinity of previously sampled locations AH-3, AH-4, and H-3. A total of sixteen (16) samples were collected from the three (3) borings and submitted to Eurofins-Xenco to be analyzed for TPH, BTEX, and chloride. Boring logs, included as Appendix D, present soil descriptions, sample depths and field screening data from the additional Site assessment.

Results from the September 2021 soil sampling event are summarized in Table 2. The analytical results associated with BH-1 boring location exceeded the Site reclamation RRAL for chlorides (600 mg/kg) in the 0-1 foot bgs interval. Analytical results associated with BH-2 exceeded the reclamation RRAL for TPH (100 mg/kg) in the 0-1 foot bgs interval.

There were no other analytical results from samples collected in August 2021 which exceeded the Site RRALs for TPH, chlorides, or BTEX in the perimeter or the interior boring locations. The analytical results associated with the remainder of the samples analyzed were below the Site remediation and reclamation RRALs for all constituents. After review of the analytical results from the sampling events, both horizontal and vertical delineation was achieved following the August 2021 soil assessment activities. The 2021 assessment sampling locations are indicated in Figure 3.

INITIAL DEFERRAL REQUEST

A Release Characterization and Deferral Request was prepared by Tetra Tech on behalf of ConocoPhillips and submitted to the NMOCD on September 23, 2021. The report described the assessment activities and results. A copy of the 2021 deferral request is available on the NMOCD online incident files.

The deferral request was rejected by Chad Hensley of the NMOCD via email on October 14, 2021. Reasons for rejection included in the email were:

- *"Deferral is not eligible for off-pad release.*
- *Remediation plan due 11/25/2021."*

Regulatory correspondence is included in Appendix B.

2021 REMEDIATION WORK PLAN

Following the NMOCD rejection of the deferral request, a Release Characterization and Remediation Work Plan was prepared by Tetra Tech on behalf of ConocoPhillips and submitted to the NMOCD on October 22, 2021. In this report, ConocoPhillips proposed to excavate the delineated release extent to a maximum depth of 4 feet bgs. Additionally, ConocoPhillips proposed an alternative confirmation sampling plan to collect confirmation samples representative of approximately 500 square feet of excavated area. Reclamation and restoration activities were proposed for the off-lease pasture areas. A copy of the 2021 work plan is available on the OCD online incident files.

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The 2021 work plan was approved by Chad Hensley of the NMOCD via email on November 29, 2021, with the following comments:

- "Closure report due 03/28/2022."

Regulatory correspondence is included in Appendix B.

SLO CLOSURE APPROVAL

As the release footprint is located on State Trust Lands, managed by the NMSLO, additional correspondence with the landowner was required. ConocoPhillips representatives and NMSLO representatives engaged in email correspondence regarding the incident and the release footprint. In an email submission dated January 26, 2023, ConocoPhillips requested closure of the release incident with the NMSLO Environmental Compliance Office (ECO).

Following a review of the incident files, release closure with the NMSLO was approved by Tammy Honea via email on January 27, 2023. A copy of the NMSLO approval correspondence is included in Appendix B.

2023 ADDITIONAL ASSESSMENT

Based on the approved closure from the NMSLO ECO, Tetra Tech remobilized to the Site on October 25, 2023, to conduct additional assessment activities in order to evaluate current Site conditions. A total of four (4) auger holes were installed within the area of the previously identified release footprint. These supplemental hand auger borehole locations are shown on Figure 4.

A total of six (6) samples were collected from the four (4) auger holes and submitted to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico to be analyzed for chlorides via EPA Method 4500.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. Copies of the analytical laboratory report and chain-of-custody documentation are included in Appendix E. Photographic documentation of the release area is included in Appendix F.

Results from the October 2023 soil sampling event are summarized in Table 3. Analytical results associated with the sample location AH-23-3 exceeded the reclamation limit for chlorides (600 mg/kg) in the 0-1 foot bgs interval (1,880 mg/kg), but the result was well below the Site RRAL (10,000 mg/kg). The AH-23-3 location is not in the pasture, but rather in an existing lease road. The analytical results associated with the remainder of the samples analyzed were below the Site reclamation limits and RRALs for all constituents.

VARIANCE REQUEST

In consideration of the documented NMSLO approval for closure of the release incident, as well as the results of the October 2023 assessment which demonstrate that remaining soil concentrations are all below the site RRALs, and below reclamation limits in vegetated pasture areas, ConocoPhillips requests a variance to leave soils above the reclamation limit for chlorides in place. The portion of the release that exceeds the reclamation limit for chlorides is limited to approximately 21 cubic yards (approximately 570 square feet to a depth of 1 foot) of active lease road. The primary purpose of reclamation is to re-establish vegetative growth, which is not applicable for the lease road.

The release impact is fully delineated and groundwater in this area is greater than 55 feet below surface. Soil concentrations in this area are well below the Site RRAL of 10,000 mg/kg for chlorides, and thus do not cause an imminent risk to human health, the environment, or groundwater.

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ConocoPhillips

CONCLUSION

Based on the regulatory correspondence with the landowner, as well as the results of the additional site assessment activities, ConocoPhillips respectfully requests closure of the release incident. The release footprint was fully delineated and there were no exceedances of the Site RRALs.

The final C-141 forms are enclosed in Appendix A. If you have any questions concerning the incident or the soil assessment, please call me at (512) 338-2852.

Sincerely,
Tetra Tech, Inc.



Samantha Abbott, P.G.
Project Manager



Christian M. Llull, P.G.
Program Manager

cc:
Mr. Jacob Laird, PBU – ConocoPhillips

Closure Request
January 3, 2024

ConocoPhillips

LIST OF ATTACHMENTS

Figures:

- Figure 1 – Overview Map
- Figure 2 – Topographic Map
- Figure 3 – Approximate Release Extent and Assessment
- Figure 4 – 2023 Additional Assessment

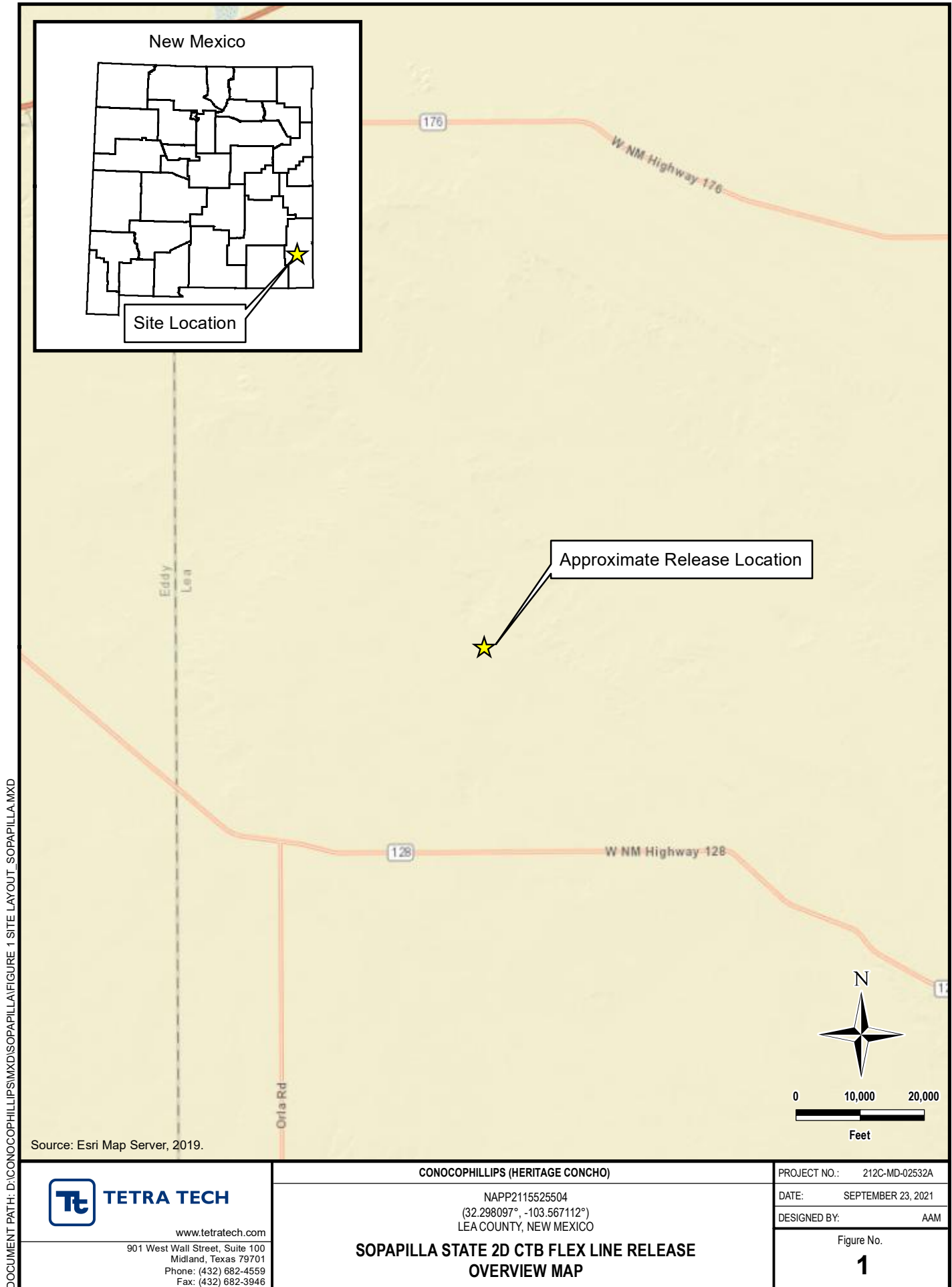
Tables:

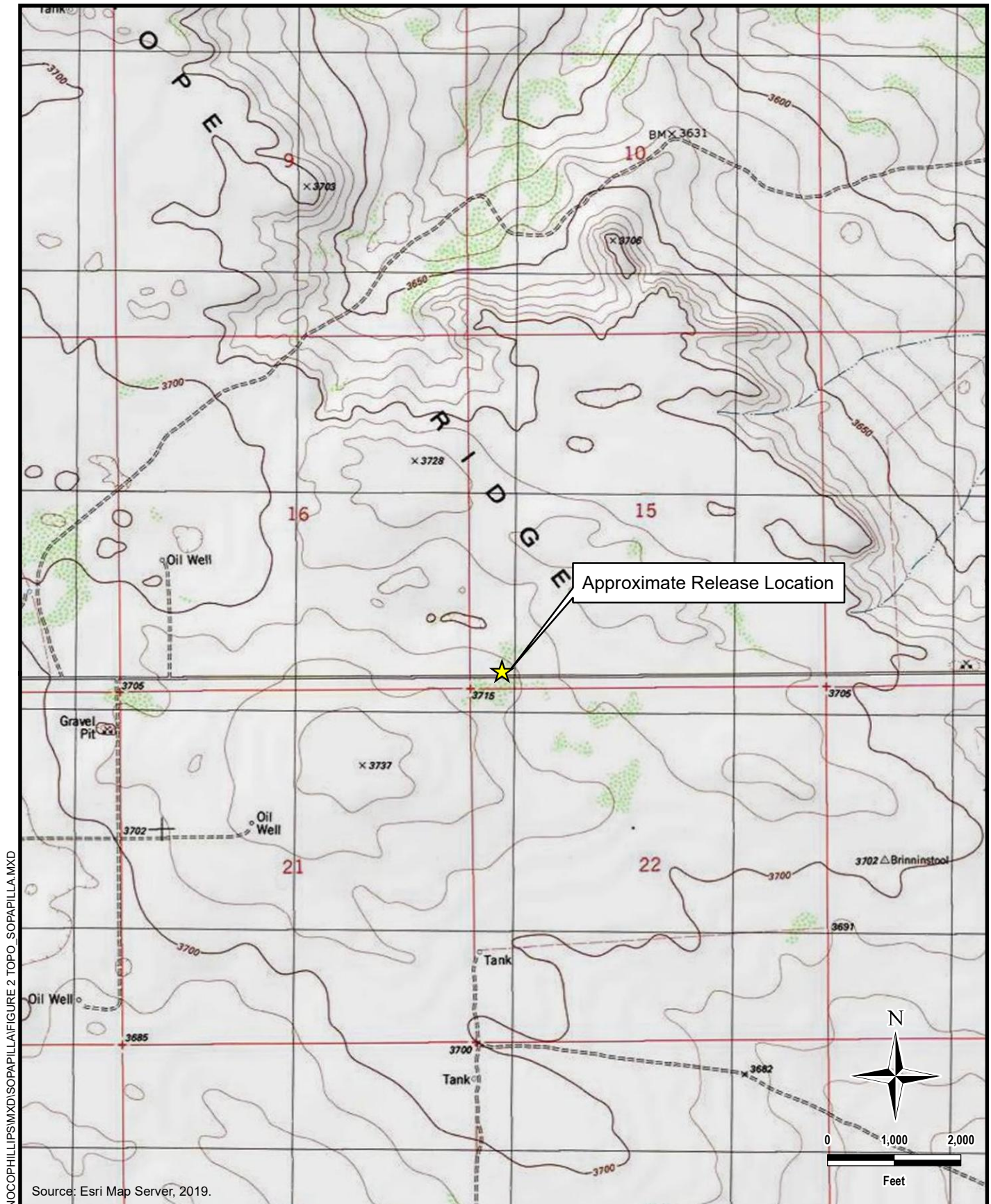
- Table 1 – Summary of Analytical Results – Initial Soil Assessment
- Table 2 – Summary of Analytical Results – Additional Soil Assessment
- Table 3 – Summary of Analytical Results – 2023 Additional Soil Assessment

Appendices:

- Appendix A – C-141 Forms
- Appendix B – Regulatory Correspondence
- Appendix C – Site Characterization Data
- Appendix D – Boring Logs
- Appendix E – Laboratory Analytical Data
- Appendix F – Photographic Documentation

FIGURES





DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\SOPAPILLA\FIGURE 2 TOPO SOPAPILLA.MXD


TETRA TECH
www.tetrattech.com

 901 West Wall Street, Suite 100
 Midland, Texas 79701
 Phone: (432) 682-4559
 Fax: (432) 682-3946

CONOCOPHILLIPS (HERITAGE CONCHO)

 NAPP2115525504
 (32.298097°, -103.567112°)
 LEA COUNTY, NEW MEXICO

SOPAPILLA STATE 2D CTB FLEX LINE RELEASE TOPOGRAPHIC MAP

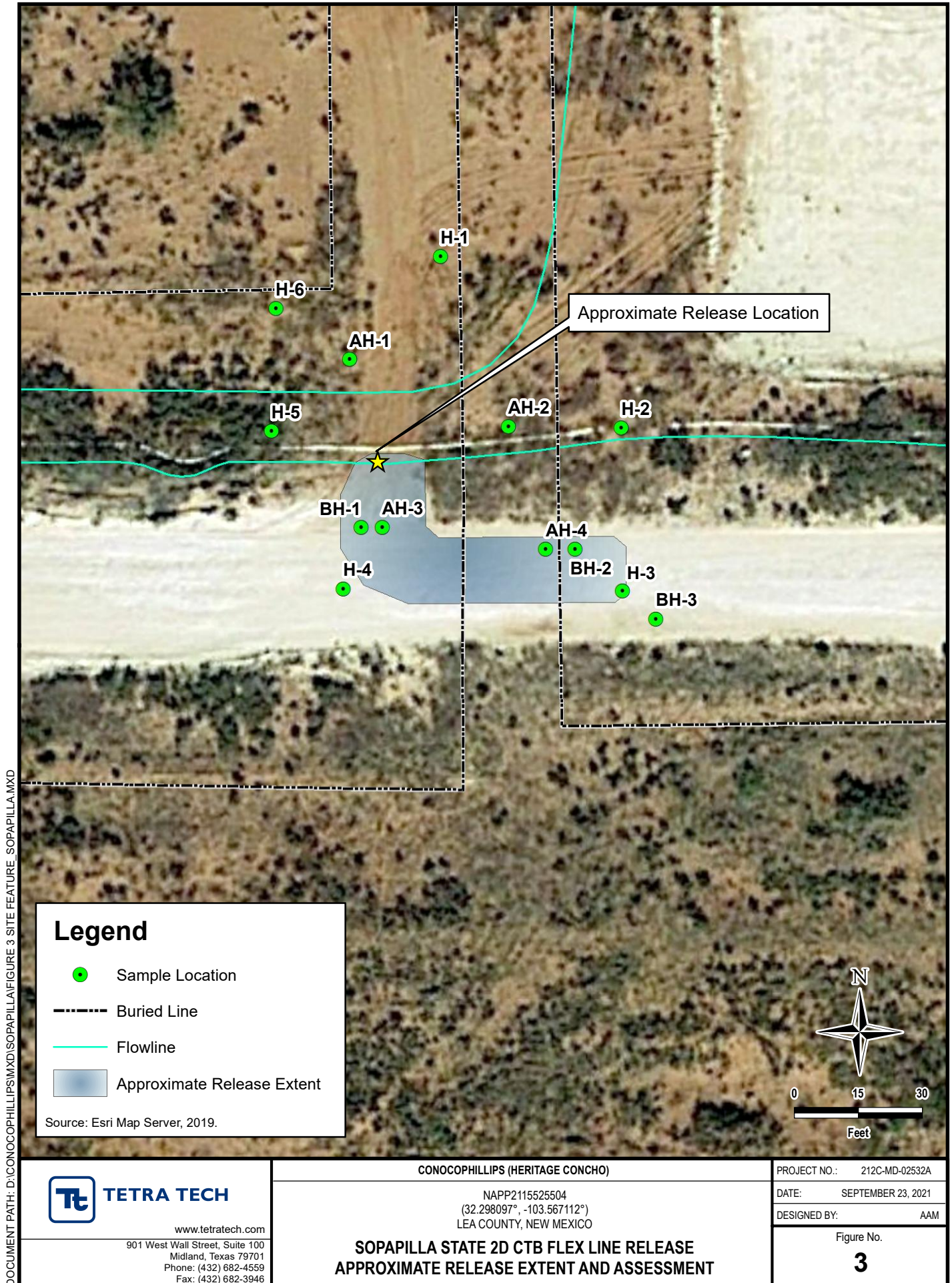
PROJECT NO.: 212C-MD-02532A

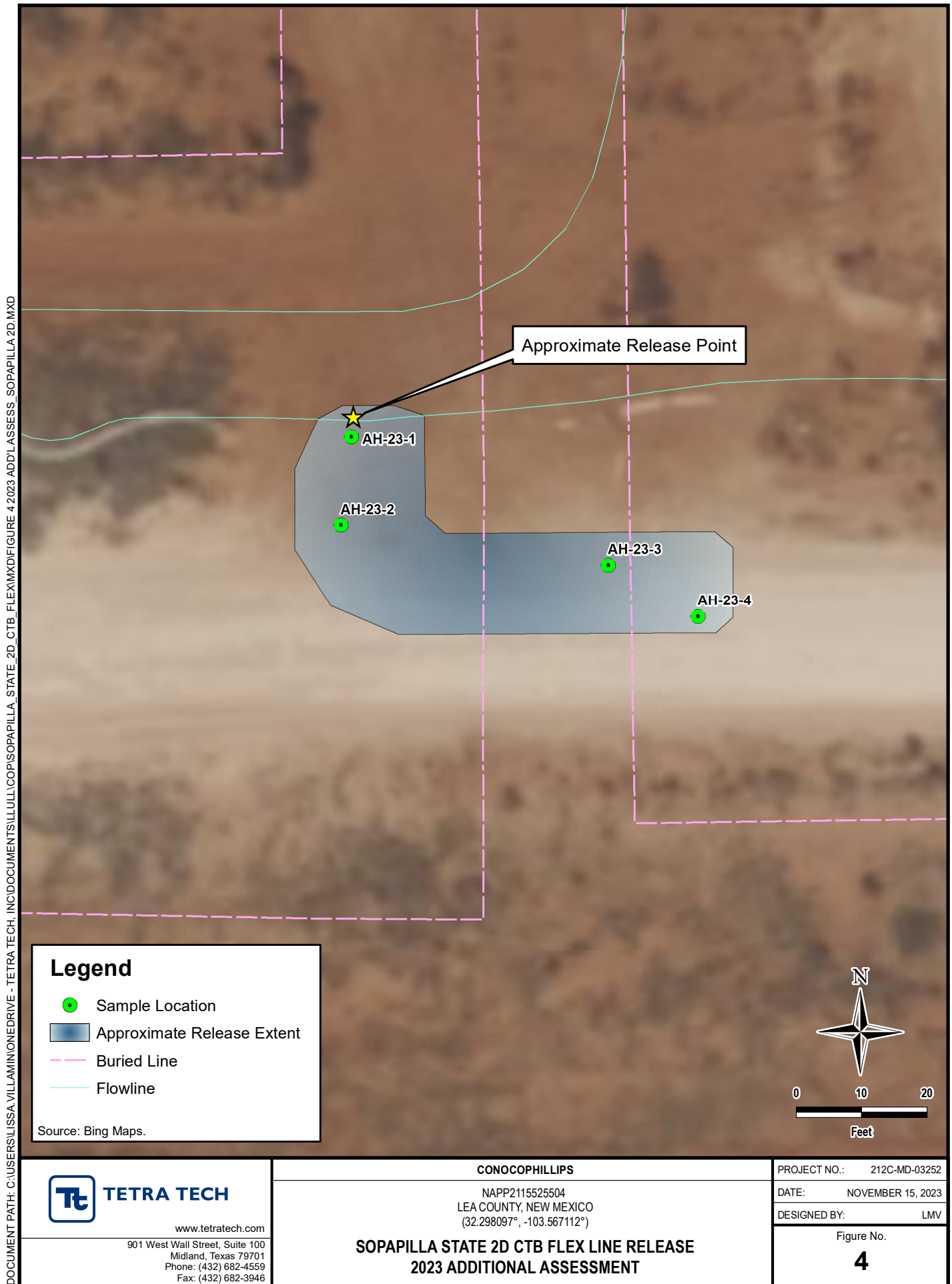
DATE: SEPTEMBER 23, 2021

DESIGNED BY: AAM

Figure No.

2





TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
INITIAL SOIL ASSESSMENT- NAPP2115525504
HERITAGE CONCHO
SOPAPILLA STATE 2D CTB FLEX LINE RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chloride ¹		BTEX ²										TPH ³							
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		ORO		Total TPH	
		C ₆ - C ₁₀			C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	> C ₂₈ - C ₃₆															
		ft. bgs	ppm		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q
AH-1	6/25/2021	0 - 1	-	-	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
		1 - 1.5	-	-	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
		2 - 2.5	-	-	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
		3 - 3.5	-	-	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
AH-2	6/25/2021	0 - 1	-	-	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
		1 - 1.5	-	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
AH-3	6/25/2021	0 - 1	-	-	2600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
		1 - 1.5	-	-	4960		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
		2 - 2.5	-	-	3280		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
		3 - 3.5	-	-	4960		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
		4 - 4.5	-	-	7600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
AH-4	6/25/2021	0 - 1	-	-	3600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		25.9		<10.0		25.9	
		1 - 1.5	-	-	3280		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
		2 - 2.5	-	-	1540		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
		3 - 3.5	-	-	2680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
		4 - 4.5	-	-	6880		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
H-1	6/25/2021	0 - 1	-	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
H-2	6/25/2021	0 - 1	-	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
H-3	6/25/2021	0 - 1	-	-	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		69.7		40.3		110	
H-4	6/25/2021	0 - 1	-	-	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
H-5	6/25/2021	0 - 1	-	-	336		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
H-6	6/25/2021	0 - 1	-	-	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	

NOTES:

- ft. Feet
- bgs Below ground surface
- ppm Parts per million
- mg/kg Milligrams per kilogram
- TPH Total Petroleum Hydrocarbons
- GRO Gasoline range organics
- DRO Diesel range organics
- ORO Oil range organics
- 1 EPA Method 300.0
- 2 EPA Method 8021B
- 3 EPA Method 8015B NM

Bold and italicized values indicate exceedance of proposed Remediation RRALs and/or Reclamation Requirements.

QUALIFIERS:

*1 LCS/LCSD RPD exceeds control limits.

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
ADDITIONAL SOIL ASSESSMENT- NAPP2115525504
HERITAGE CONCHO
SOPAPILLA STATE 2D CTB FLEX LINE RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chloride ¹		BTEX ²										TPH ³							
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		ORO		Total TPH	
		C ₆ - C ₁₀			> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆																	
		ft. bgs	ppm		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q		
BH-1	8/31/2021	0 - 1	-	-	615		< 0.00199		< 0.00199		< 0.00199		< 0.00398		0.00398		< 49.9		< 49.9	*1	< 49.9		< 49.9	
		2 - 3	620	-	280		< 0.00200		< 0.00200		< 0.00200		< 0.00399		0.00399		< 49.8		< 49.8	*1	< 49.8		< 49.8	
		4 - 5	948	-	884		< 0.00198		< 0.00198		< 0.00198		< 0.00397		0.00397		< 49.9		< 49.9	*1	< 49.9		< 49.9	
		6 - 7	510	-	341		< 0.00199		< 0.00199		< 0.00199		< 0.00398		0.00398		< 49.8		< 49.8	*1	< 49.8		< 49.8	
		9 - 10	806	-	1,010		< 0.00200		< 0.00200		< 0.00200		< 0.00401		0.00401		< 49.9		< 49.9	*1	< 49.9		< 49.9	
		14 - 15	605	-	492		< 0.00200		< 0.00200		< 0.00200		< 0.00399		0.00399		< 49.9		< 49.9	*1	< 49.9		< 49.9	
		19 - 20	381	-	314		< 0.00201		< 0.00201		< 0.00201		< 0.00402		0.00402		< 49.8		< 49.8	*1	< 49.8		< 49.8	
BH-2	8/31/2021	0 - 1	-	-	67.4		< 0.00202		< 0.00202		< 0.00202		< 0.00403		0.00403		< 50.0		1830	*1	334		2,160	
		2 - 3	184	-	40.1		< 0.00202		< 0.00202		< 0.00202		< 0.00403		0.00403		< 50.0		< 50.0	*1	< 50.0		< 50.0	
		4 - 5	629	-	294		< 0.00201		< 0.00201		< 0.00201		< 0.00402		0.00402		< 49.9		105	*1	< 49.9		105	
		6 - 7	487	-	392		< 0.00200		< 0.00200		< 0.00200		< 0.00399		0.00399		< 49.9		< 49.9	*1	< 49.9		< 49.9	
		9 - 10	391	-	295		< 0.00199		< 0.00199		< 0.00199		< 0.00398		0.00398		< 49.8		67.9	*1	< 49.8		67.9	
BH-3	8/31/2021	0 - 1	73.8	-	23.4		< 0.00199		< 0.00199		< 0.00199		< 0.00398		0.00398		< 49.9		< 49.9	*1	< 49.9		< 49.9	
		2 - 3	64.5	-	24.7		< 0.00200		< 0.00200		< 0.00200		< 0.00399		0.00399		< 50.0		< 50.0	*1	< 50.0		< 50.0	
		4 - 5	201	-	89.5		< 0.00200		< 0.00200		< 0.00200		< 0.00401		0.00401		< 49.8		< 49.8	*1	< 49.8		< 49.8	

NOTES:

ft. Feet

bgs Below ground surface

ppm Parts per million

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

ORO Oil range organics

1 EPA Method 300.0

2 EPA Method 8021B

3 EPA Method 8015B NM

Bold and italicized values indicate exceedance of proposed Remediation RRAIs and/or Reclamation Requirements.

QUALIFIERS:

*1 LCS/LCSD RPD exceeds control limits.

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
2023 SOIL ASSESSMENT- NAPP2115525504
CONOCOPHILLIPS
Sopapilla State 2D CTB Flex Line Release
LEA COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (> 55ft):			Chlorides ¹		BTEX ²										TPH ³							
Sample ID	Sample Date	Sample Depth Interval	< 600 mg/kg		< 10 mg/kg		Toluene		Ethylbenzene		Total Xylenes		< 50 mg/kg		GRO		DRO		EXT DRO		< 100 mg/kg	-
			Chloride		Benzene																Total TPH (GRO+DRO+EXT DRO)	GRO+DRO
			ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
AH-23-1	10/24/2023	-	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AH-23-2	10/24/2023	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AH-23-3	10/24/2023	0-1	1,880		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		2-3	576		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		3-4	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AH-23-4	10/24/2023	-	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

Bold and italicized values indicate exceedance of proposed RRALs and Reclamation Requirements.

Shaded rows indicate intervals proposed for excavation.

APPENDIX A C-141 Forms

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

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

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

Incident ID	NAPP2115525504
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

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 type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)


Cause of Release

Incident ID	NAPP2115525504
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 type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> 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 _____	Title: _____
Signature: <u></u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>6/6/2021</u>

NAPP2115525504

Facility Name & Number:		Sopapilla SWD Flex Leak				
Asset Area:		hConcho, Lea County				
Release Discovery Date & Time:		5/25/2021				
Release Type:		Produced Water				
Provide any known details about the event:		Lat 32.29802, Lon -103.56710,SWD flex line damaged by unknown party, OFF LOCATION				
Spill Calculation - Subsurface Spill - Rectangle						
Was the release on pad or off-pad?					See reference table below	
Has it rained at least a half inch in the last 24 hours?					See reference table below	
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	24.0	23.0	8.00	15.12%	65.504	9.904
Rectangle B					0.000	0.000
Rectangle C					0.000	0.000
Rectangle D					0.000	0.000
Rectangle E					0.000	0.000
Rectangle F					0.000	0.000
Rectangle G					0.000	0.000
Rectangle H					0.000	0.000
Rectangle I					0.000	0.000
Rectangle J					0.000	0.000
Total Volume Release:						9.904

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 30576

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 30576
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
marcus	None	6/6/2021

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input 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 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 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 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 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 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 type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Kelly Jayman Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: _____ Title: _____

Signature: Kelley Jayaram Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature: Chad Hearn Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ Title: _____

Signature: Jacob Laird Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

APPENDIX B

Regulatory Correspondence

From: [Hamlet, Robert, EMNRD](#)
To: [Esparza, Brittany](#)
Cc: [Gonzalez, Jessika L](#); [Waggaman, Kelsy](#); [Bratcher, Mike, EMNRD](#); [Hensley, Chad, EMNRD](#)
Subject: (Extension Approval) Sopapilla State 2D CTB (NAPP2115525504) 05-25-2021
Date: Thursday, August 26, 2021 8:43:00 AM

RE: Incident #**NAPP2115525504**

Brittany,

Your request for an extension to **September 25th, 2021** is approved.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau

EMNRD - Oil Conservation Division

811 S. First Street | Artesia, NM 88210

575.909.0302 | robert.hamlet@state.nm.us

<http://www.emnrd.state.nm.us/OCD/>



From: Esparza, Brittany <Brittany.Esparza@conocophillips.com>
Sent: Tuesday, August 24, 2021 9:17 AM
To: EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>; spills@slo.state.nm.us
Cc: Gonzalez, Jessika L <Jessika.L.Gonzalez@conocophillips.com>; Waggaman, Kelsy <Kelsy.Waggaman@conocophillips.com>; Esparza, Brittany <Brittany.Esparza@conocophillips.com>
Subject: (Extension Request #1) Sopapilla State 2D CTB (NAPP2115525504) 05-25-2021

To Whom it May Concern,

Under the new spill rule a Work Plan or Closure Report is due for the above release on August 25, 2021. COG is requesting a one-month extension until September 25, 2021 in order to schedule drillers for site.

Please let me know if you have any questions or concerns.

Thank you,

Brittany N. Esparza

Brittany N. Esparza | Environmental Technician, Permian | **ConocoPhillips**

O: 432-221-0398 | C: 432-349-1911 | 3CC-2064 Midland, Texas

From: OCDOnline@state.nm.us
To: [Lull, Christian](#)
Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 51635
Date: Thursday, October 14, 2021 9:14:12 AM

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

To whom it may concern (c/o Christian Lull for COG OPERATING LLC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2115525504, for the following reasons:

- **Deferral is not eligible for off-pad release.**
- **Remediation plan due 11/25/2021**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 51635.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Chad Hensley
Environmental Science & Specialist
575-703-1723
Chad.Hensley@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: [Llull, Christian](#)
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 57436
Date: Monday, November 29, 2021 10:12:47 AM

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

To whom it may concern (c/o Christian Llull for COG OPERATING LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2115525504, with the following conditions:

- **Closure report due 03/28/2022**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Chad Hensley
Environmental Science & Specialist
575-703-1723
Chad.Hensley@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Received by thonea@nmslo.state.nm.us
From: [Brittany Esparza](mailto:Brittany.Esparza@conocophillips.com) <Brittany.Esparza@conocophillips.com>
Sent on: Friday, January 27, 2023 10:46:39 PM
To: Esparza, Brittany <Brittany.Esparza@conocophillips.com>
Subject: [EXTERNAL]Closure for Sopapilla State 2D CTB

Follow up: Follow up
Start date: Monday, January 30, 2023 12:00:00 AM
Due date: Monday, January 30, 2023 12:00:00 AM

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good afternoon, Brittany

Thank you for your email dated 1-26-2023.

The NMSLO Environmental Compliance Office (ECO) has reviewed your documents related to the release that occurred on 5-25-2021 at Sopapilla State 2D CTB and we agree that this matter may be closed.

Thank you for all your submissions on this incident and have a good weekend,

Tammy Honea
ECO Administrative Support
Surface Division
Hobbs District Office
575.392.8736
New Mexico State Land Office
914 N. Linam Street
Hobbs, NM 88240
thonea@slo.state.nm.us
nmstatelands.org

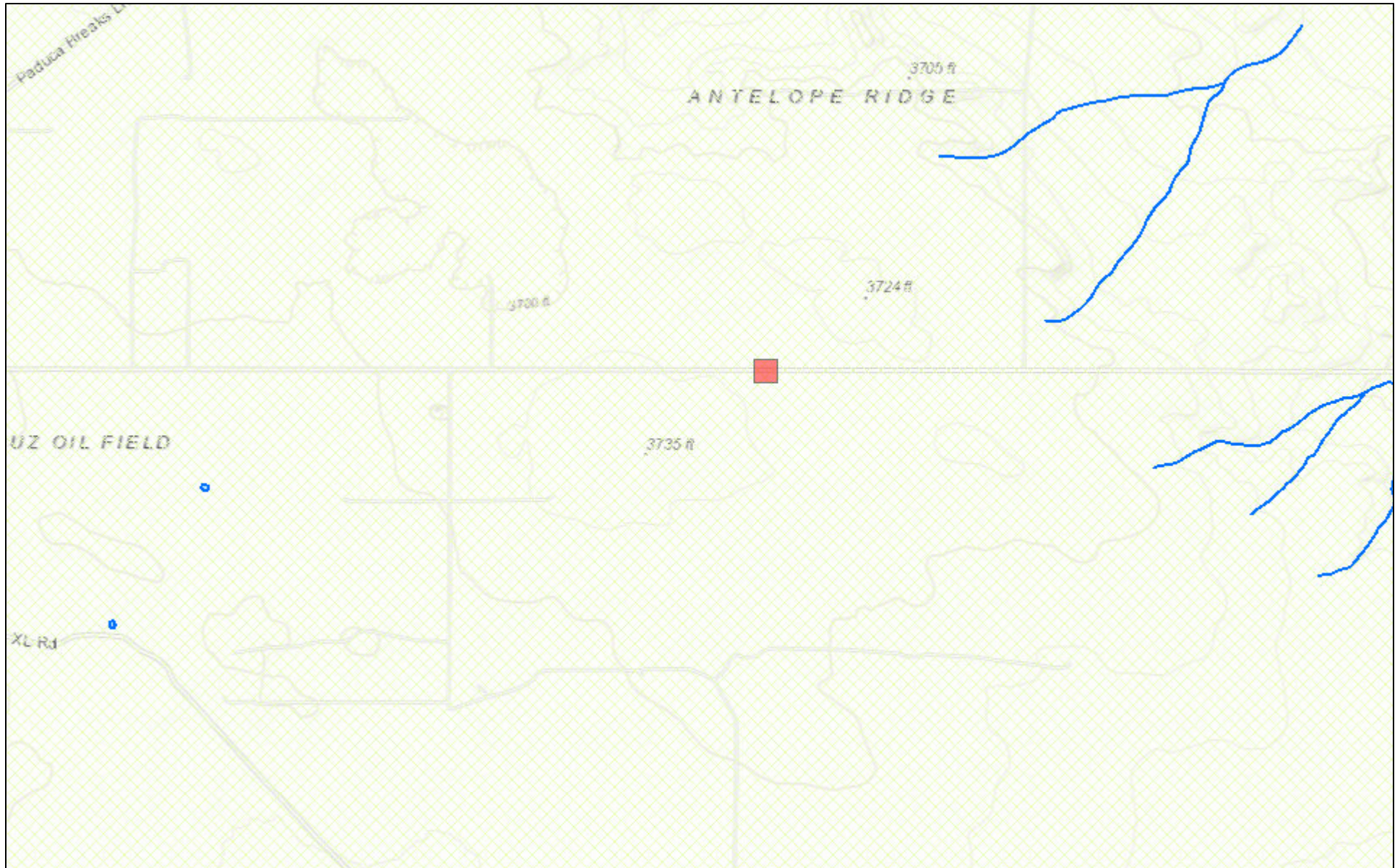


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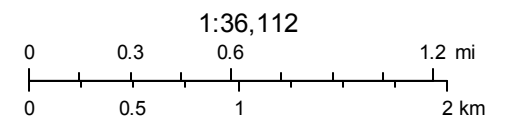
APPENDIX C

Site Characterization Data

New Mexico NFHL Data



June 15, 2021




FEMA
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,


Released to Imaging: 4/8/2024 3:22:12 PM


Low Karst
Concho Sopapilla SWD Line Leak


Released to Imaging: 4/8/2024 3:22:12 PM

Legend

 High

 Low

 Medium

 Sopapilla SWD Line Leak

176

Received by OCD: J/23/2024 8:54:46 AM

 Sopapilla SWD Line Leak

Jal Hwy



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03582 POD1	C		LE	4	1	1	14	23S	33E	636583	3575666	2114	590		
C 02278	CUB		LE	3	4	2	28	23S	33E	634484	3571989*	2419	650	400	250
C 02277	CUB		LE	2	3	4	20	23S	33E	632663	3572970*	2649	550	400	150
C 02280	CUB		LE	3	2	4	28	23S	33E	634489	3571586*	2816	650	400	250

Average Depth to Water: **400 feet**

Minimum Depth: **400 feet**

Maximum Depth: **400 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 634912.403

Northing (Y): 3574370.67

Radius: 3200

*UTM location was derived from PLSS - see Help

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

9/22/21 2:37 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

APPENDIX D

Boring Logs

212C-MD-02532A		TETRA TECH		LOG OF BORING AH-1				Page 1 of 1						
Project Name: Sopapilla SWD Flowline Release Assessment														
Borehole Location: GPS: 32.298162°, -103.567258°					Surface Elevation: 3716 ft									
Borehole Number: AH-1				Borehole Diameter (in.): 4		Date Started: 6/25/2021		Date Finished: 6/25/2021						
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft Remarks:		
												MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
70	[Hand Auger]		70								[Hand Auger]	-SM- SILTY SAND: Reddish brown, loose to medium dense, damp.	0-1'	AH-1 (0-1') AH-1 (1-1.5') AH-1 (2-2.5') AH-1 (3-3.5')
68.4	[Hand Auger]		68.4								[Hand Auger]		1-1.5'	
74.4	[Hand Auger]		74.4								[Hand Auger]		2-2.5'	
67.2	[Hand Auger]		67.2								[Hand Auger]		3-3.5'	
Bottom of borehole at 3.5 feet.														
Sampler Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Split Spoon Shelby Bulk Sample Grab Sample </div> <div style="width: 50%;"> Acetate Liner Vane Shear Discrete Sample Test Pit </div> </div>		Operation Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Mud Rotary Continuous Flight Auger Wash Rotary </div> <div style="width: 50%;"> Hand Auger Air Rotary Direct Push Core Barrel </div> </div>		Notes: Analytical samples are shown in the Remarks column. Surface elevation is an estimated value based on Google Earth data.										
Logger: Colton Bickerstaff					Drilling Equipment: Hand Auger					Driller: Tetra Tech				

212C-MD-02532A		TETRA TECH										LOG OF BORING AH-2															Page 1 of 1	
Project Name: Sopapilla SWD Flowline Release Assessment																												
Borehole Location: GPS: 32.298107°, -103.567140°															Surface Elevation: 3715 ft													
Borehole Number: AH-2										Borehole Diameter (in.): 4					Date Started: 6/25/2021					Date Finished: 6/25/2021								
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft Remarks:																
												MATERIAL DESCRIPTION										DEPTH (ft)	REMARKS					
1			83									-SM- SILTY SAND: Reddish brown, loose to medium dense, damp.										1.5	AH-2 (0-1') AH-2 (1-1.5')					
Bottom of borehole at 1.5 feet.																												

Sampler Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Split Spoon Shelby Bulk Sample Grab Sample </div> <div style="width: 50%;"> Acetate Liner Vane Shear Discrete Sample Test Pit </div> </div>	Operation Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Mud Rotary Continuous Flight Auger Wash Rotary </div> <div style="width: 50%;"> Hand Auger Air Rotary Direct Push Core Barrel </div> </div>	Notes: Analytical samples are shown in the Remarks column. Surface elevation is an estimated value based on Google Earth data.
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Logger: Colton Bickerstaff	Drilling Equipment: Hand Auger	Driller: Tetra Tech
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212C-MD-02532A		TETRA TECH		LOG OF BORING AH-3				Page 1 of 1							
Project Name: Sopapilla SWD Flowline Release Assessment															
Borehole Location: GPS: 32.298056°, -103.567221°					Surface Elevation: 3715 ft										
Borehole Number: AH-3				Borehole Diameter (in.): 4		Date Started: 6/25/2021		Date Finished: 6/25/2021							
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS While Drilling <u>∇</u> DRY ft Upon Completion of Drilling <u>∇</u> DRY ft Remarks:			
			ExStik	PID					LL			PI	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
—	—	—	3510								—	-SM- SILTY SAND: Reddish brown, loose to medium dense, damp. Bottom of borehole at 4.5 feet.			
—	—	—	4620							—					
—	—	—	1790							—					
—	—	—	4760							—					
—	—	—	5910							4.5					

Sampler Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Split Spoon Shelby Bulk Sample Grab Sample </div> <div style="width: 50%;"> Acetate Liner Vane Shear Discrete Sample Test Pit </div> </div>	Operation Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Mud Rotary Continuous Flight Auger Wash Rotary </div> <div style="width: 50%;"> Hand Auger Air Rotary Direct Push Core Barrel </div> </div>	Notes: Analytical samples are shown in the Remarks column. Surface elevation is an estimated value based on Google Earth data.
Logger: Colton Bickerstaff	Drilling Equipment: Hand Auger	Driller: Tetra Tech

212C-MD-02532A		TETRA TECH		LOG OF BORING AH-4				Page 1 of 1							
Project Name: Sopapilla SWD Flowline Release Assessment															
Borehole Location: GPS: 32.298035°, -103.567118°					Surface Elevation: 3715 ft										
Borehole Number: AH-4				Borehole Diameter (in.): 4		Date Started: 6/25/2021		Date Finished: 6/25/2021							
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft Remarks:			
			ExStik	PID					LL			PI	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
1820													-SM- SILTY SAND: Reddish brown, loose to medium dense, damp.		AH-4 (0-1')
3200											AH-4 (1-1.5')				
850											AH-4 (2-2.5')				
2450											AH-4 (3-3.5')				
7140											4.5				AH-4 (4-4.5')

Bottom of borehole at 4.5 feet.

Sampler Types: Split Spoon Shelby Bulk Sample Grab Sample	Acetate Liner Vane Shear Discrete Sample Test Pit	Operation Types: Mud Rotary Continuous Flight Auger Wash Rotary	Hand Auger Air Rotary Direct Push Core Barrel	Notes: Analytical samples are shown in the Remarks column. Surface elevation is an estimated value based on Google Earth data.
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Logger: Colton Bickerstaff

Drilling Equipment: Hand Auger

Driller: Tetra Tech

212C-MD-02532A		TETRA TECH										LOG OF BORING H-1															Page 1 of 1	
Project Name: Sopapilla SWD Flowline Release Assessment																												
Borehole Location: GPS: 32.298227°, -103.567188°															Surface Elevation: 3715 ft													
Borehole Number: H-1										Borehole Diameter (in.): 4					Date Started: 6/25/2021					Date Finished: 6/25/2021								
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft Remarks:																
												MATERIAL DESCRIPTION										DEPTH (ft)	REMARKS					
			60.5									-SM- SILTY SAND: Reddish brown, loose to medium dense, damp. Bottom of borehole at 1.0 feet.										1	H-1 (0-1')					

Sampler Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Split Spoon Shelby Bulk Sample Grab Sample </div> <div style="width: 50%;"> Acetate Liner Vane Shear Discrete Sample Test Pit </div> </div>	Operation Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Mud Rotary Continuous Flight Auger Wash Rotary </div> <div style="width: 50%;"> Hand Auger Air Rotary Direct Push Core Barrel </div> </div>	Notes: Analytical samples are shown in the Remarks column. Surface elevation is an estimated value based on Google Earth data.
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Logger: Colton Bickerstaff	Drilling Equipment: Hand Auger	Driller: Tetra Tech
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212C-MD-02532A		TETRA TECH		LOG OF BORING H-2			Page 1 of 1								
Project Name: Sopapilla SWD Flowline Release Assessment															
Borehole Location: GPS: 32.298116°, -103.567052°					Surface Elevation: 3714 ft										
Borehole Number: H-2				Borehole Diameter (in.): 4		Date Started: 6/25/2021		Date Finished: 6/25/2021							
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft Remarks:			
												MATERIAL DESCRIPTION		DEPTH (ft)	REMARKS
			57									-SM- SILTY SAND: Reddish brown, loose to medium dense, damp.		1	H-2 (0-1')
Bottom of borehole at 1.0 feet.															
Sampler Types: Split Spoon Shelby Bulk Sample Grab Sample			Acetate Liner Vane Shear Discrete Sample Test Pit			Operation Types: Mud Rotary Continuous Flight Auger Wash Rotary			Hand Auger Air Rotary Direct Push Core Barrel			Notes: Analytical samples are shown in the Remarks column. Surface elevation is an estimated value based on Google Earth data.			
Logger: Colton Bickerstaff						Drilling Equipment: Hand Auger				Driller: Tetra Tech					

212C-MD-02532A		TETRA TECH										LOG OF BORING H-3															Page 1 of 1	
Project Name: Sopapilla SWD Flowline Release Assessment																												
Borehole Location: GPS: 32.298016°, -103.567064°															Surface Elevation: 3714 ft													
Borehole Number: H-3										Borehole Diameter (in.): 4					Date Started: 6/25/2021					Date Finished: 6/25/2021								
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft Remarks:																
												MATERIAL DESCRIPTION										DEPTH (ft)	REMARKS					
			233									-SM- SILTY SAND: Reddish brown, loose to medium dense, damp. Bottom of borehole at 1.0 feet.										1	H-3 (0-1')					

Sampler Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Split Spoon Shelby Bulk Sample Grab Sample </div> <div style="width: 50%;"> Acetate Liner Vane Shear Discrete Sample Test Pit </div> </div>	Operation Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Mud Rotary Continuous Flight Auger Wash Rotary </div> <div style="width: 50%;"> Hand Auger Air Rotary Direct Push Core Barrel </div> </div>	Notes: Analytical samples are shown in the Remarks column. Surface elevation is an estimated value based on Google Earth data.
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Logger: Colton Bickerstaff	Drilling Equipment: Hand Auger	Driller: Tetra Tech
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212C-MD-02532A		TETRA TECH		LOG OF BORING H-4			Page 1 of 1							
Project Name: Sopapilla SWD Flowline Release Assessment														
Borehole Location: GPS: 32.298014°, -103.567264°				Surface Elevation: 3716 ft										
Borehole Number: H-4				Borehole Diameter (in.): 4		Date Started: 6/25/2021		Date Finished: 6/25/2021						
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft Remarks:		
												MATERIAL DESCRIPTION		DEPTH (ft)
1	Hand Auger	Hand	1580								1	-SM- SILTY SAND: Reddish brown, loose to medium dense, damp. Bottom of borehole at 1.0 feet.		

Sampler Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Split Spoon Shelby Bulk Sample Grab Sample </div> <div style="width: 50%;"> Acetate Liner Vane Shear Discrete Sample Test Pit </div> </div>	Operation Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Mud Rotary Continuous Flight Auger Wash Rotary </div> <div style="width: 50%;"> Hand Auger Air Rotary Direct Push Core Barrel </div> </div>	Notes: Analytical samples are shown in the Remarks column. Surface elevation is an estimated value based on Google Earth data.
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Logger: Colton Bickerstaff	Drilling Equipment: Hand Auger	Driller: Tetra Tech
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212C-MD-02532A		TETRA TECH		LOG OF BORING H-5				Page 1 of 1							
Project Name: Sopapilla SWD Flowline Release Assessment															
Borehole Location: GPS: 32.298116°, -103.567317°					Surface Elevation: 3717 ft										
Borehole Number: H-5				Borehole Diameter (in.): 4		Date Started: 6/25/2021		Date Finished: 6/25/2021							
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft Remarks:			
												MATERIAL DESCRIPTION		DEPTH (ft)	REMARKS
1	Hand Auger	Hand	350	PID								-SM- SILTY SAND: Reddish brown, loose to medium dense, damp. Bottom of borehole at 1.0 feet.		1	H-5 (0-1')

Sampler Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Split Spoon Shelby Bulk Sample Grab Sample </div> <div style="width: 50%;"> Acetate Liner Vane Shear Discrete Sample Test Pit </div> </div>	Operation Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Mud Rotary Continuous Flight Auger Wash Rotary </div> <div style="width: 50%;"> Hand Auger Air Rotary Direct Push Core Barrel </div> </div>	Notes: Analytical samples are shown in the Remarks column. Surface elevation is an estimated value based on Google Earth data.
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Logger: Colton Bickerstaff	Drilling Equipment: Hand Auger	Driller: Tetra Tech
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212C-MD-02532A		TETRA TECH										LOG OF BORING H-6															Page 1 of 1	
Project Name: Sopapilla SWD Flowline Release Assessment																												
Borehole Location: GPS: 32.298195°, -103.567314°															Surface Elevation: 3716 ft													
Borehole Number: H-6										Borehole Diameter (in.): 4					Date Started: 6/25/2021					Date Finished: 6/25/2021								
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft Remarks:																
												MATERIAL DESCRIPTION										DEPTH (ft)	REMARKS					
			108									-SM- SILTY SAND: Reddish brown, loose to medium dense, damp. Bottom of borehole at 1.0 feet.										1	H-6 (0-1')					

Sampler Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Split Spoon Shelby Bulk Sample Grab Sample </div> <div style="width: 50%;"> Acetate Liner Vane Shear Discrete Sample Test Pit </div> </div>	Operation Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Mud Rotary Continuous Flight Auger Wash Rotary </div> <div style="width: 50%;"> Hand Auger Air Rotary Direct Push Core Barrel </div> </div>	Notes: Analytical samples are shown in the Remarks column. Surface elevation is an estimated value based on Google Earth data.
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Logger: Colton Bickerstaff	Drilling Equipment: Hand Auger	Driller: Tetra Tech
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212C-MD-02532A		TETRA TECH		LOG OF BORING BH-1				Page 1 of 1	
Project Name: Sopapilla SWD Flowline Release Assessment									
Borehole Location: GPS: 32.298057°, -103.567236°					Surface Elevation: 3716 ft				
Borehole Number: BH-1				Borehole Diameter (in.): 8		Date Started: 8/31/2021		Date Finished: 8/31/2021	

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS			
												While Drilling	Upon Completion of Drilling		
												While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft Remarks:			
												MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS	
5			620									-SM- SILTY SAND: Reddish brown, loose to medium dense, damp.		BH-1 (0-1')	
			948												BH-1 (2-3')
			510												BH-1 (4-5')
			806												BH-1 (6-7')
10			806									-SM- SILTY SAND: Reddish brown, loose to medium dense, dry to damp, clayey in part.		BH-1 (9-10')	
15			605												BH-1 (14-15')
20			381									-CALICHE- CALICHE: White, hard, moderately cemented with calcium carbonate, with abundant gravel, occ. boulders. Bottom of borehole at 20.0 feet.	19		
														20	BH-1 (19-20')

Sampler Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Split Spoon Shelby Bulk Sample Grab Sample </div> <div style="width: 50%;"> Acetate Liner Vane Shear Discrete Sample Test Pit </div> </div>	Operation Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Mud Rotary Continuous Flight Auger Wash Rotary </div> <div style="width: 50%;"> Hand Auger Air Rotary Direct Push Core Barrel </div> </div>	Notes: Analytical samples are shown in the Remarks column. Surface elevation is an estimated value based on Google Earth data.
Logger: Joe Tyler	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling

212C-MD-02532A		TETRA TECH		LOG OF BORING BH-2				Page 1 of 1	
Project Name: Sopapilla SWD Flowline Release Assessment									
Borehole Location: GPS: 32.298042°, -103.567104°					Surface Elevation: 3715 ft				
Borehole Number: BH-2				Borehole Diameter (in.): 8		Date Started: 8/31/2021		Date Finished: 8/31/2021	

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		
												While Drilling	Upon Completion of Drilling	
												While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft Remarks:		
												MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
5			-									-SM- SILTY SAND: Reddish brown, loose to medium dense, damp.	0-1'	BH-2 (0-1')
			184										2-3'	BH-2 (2-3')
			629										4-5'	BH-2 (4-5')
			487										6-7'	BH-2 (6-7')
10			391									-SM- SILTY SAND: Reddish brown, loose to medium dense, dry to damp, clayey in part.	9-10'	BH-2 (9-10')
15			-											
20			-									-CALICHE- CALICHE: White, hard, moderately cemented with calcium carbonate, with abundant gravel, occ. boulders.	20	
25			-											
30			-											
35			-											
40			-											
45			-									-CALICHE- CALICHE: White, hard, heavily cemented with calcium carbonate, with abundant gravel, occ. boulders.	45	
50			-											
55			-									-SP- SAND: Reddish brown, loose to medium dense, with trace gravel, dry.	55	

Bottom of borehole at 55.0 feet.

Sampler Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input checked="" type="checkbox"/> Split Spoon <input checked="" type="checkbox"/> Shelby <input checked="" type="checkbox"/> Bulk Sample <input checked="" type="checkbox"/> Grab Sample </div> <div style="width: 50%;"> <input type="checkbox"/> Acetate Liner <input type="checkbox"/> Vane Shear <input checked="" type="checkbox"/> Discrete Sample <input type="checkbox"/> Test Pit </div> </div>	Operation Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Mud Rotary <input checked="" type="checkbox"/> Continuous Flight Auger <input checked="" type="checkbox"/> Wash Rotary </div> <div style="width: 50%;"> <input checked="" type="checkbox"/> Hand Auger <input type="checkbox"/> Air Rotary <input type="checkbox"/> Direct Push <input checked="" type="checkbox"/> Core Barrel </div> </div>	Notes: Analytical samples are shown in the Remarks column. Surface elevation is an estimated value based on Google Earth data.
Logger: Joe Tyler	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling

212C-MD-02532A		TETRA TECH		LOG OF BORING BH-3				Page 1 of 1									
Project Name: Sopapilla SWD Flowline Release Assessment																	
Borehole Location: GPS: 32.298003°, -103.567067°						Surface Elevation: 3714 ft											
Borehole Number: BH-3					Borehole Diameter (in.): 8		Date Started: 8/31/2021		Date Finished: 8/31/2021								
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft Remarks:					
			ExStik	PID				LL	PI			MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS			
5		X	73.8										-SM- SILTY SAND: Reddish brown, loose to medium dense, damp.		5	BH-3 (0-1')	
		X	64.5												BH-3 (2-3')		
		X	201												BH-3 (4-5')		
Bottom of borehole at 5.0 feet.																	
Sampler Types: Split Spoon Shelby Bulk Sample Grab Sample		Acetate Liner Vane Shear Discrete Sample Test Pit		Operation Types: Mud Rotary Continuous Flight Auger Wash Rotary		Hand Auger Air Rotary Direct Push Core Barrel		Notes: Analytical samples are shown in the Remarks column. Surface elevation is an estimated value based on Google Earth data.									
Logger: Joe Tyler						Drilling Equipment: Air Rotary						Driller: Scarborough Drilling					

APPENDIX E

Laboratory Analytical Data



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

October 31, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: SOPAPILLA STATE 2D CTB FLEX LINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/24/23 14:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/31/2023	Sampling Type:	Soil
Project Name:	SOPAPILLA STATE 2D CTB FLEX LINE RE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03252	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA CO NM		

Sample ID: AH - 23 - 1 (H235826-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/27/2023	ND	2.05	103	2.00	4.27	
Toluene*	<0.050	0.050	10/27/2023	ND	2.10	105	2.00	3.17	
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.10	105	2.00	3.21	
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.25	104	6.00	2.16	
Total BTX	<0.300	0.300	10/27/2023	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	176	16.0	10/27/2023	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	10/27/2023	ND	193	96.7	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/27/2023	ND	182	91.1	200	0.919	
EXT DRO >C28-C36	<10.0	10.0	10/27/2023	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/31/2023	Sampling Type:	Soil
Project Name:	SOPAPILLA STATE 2D CTB FLEX LINE RE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03252	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA CO NM		

Sample ID: AH - 23 - 2 (H235826-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/27/2023	ND	2.05	103	2.00	4.27	
Toluene*	<0.050	0.050	10/27/2023	ND	2.10	105	2.00	3.17	
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.10	105	2.00	3.21	
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.25	104	6.00	2.16	
Total BTEX	<0.300	0.300	10/27/2023	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	<16.0	16.0	10/27/2023	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	10/27/2023	ND	193	96.7	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/27/2023	ND	182	91.1	200	0.919	
EXT DRO >C28-C36	<10.0	10.0	10/27/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/31/2023	Sampling Type:	Soil
Project Name:	SOPAPILLA STATE 2D CTB FLEX LINE RE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03252	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA CO NM		

Sample ID: AH - 23 - 3 (0'-1') (H235826-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/27/2023	ND	2.05	103	2.00	4.27	
Toluene*	<0.050	0.050	10/27/2023	ND	2.10	105	2.00	3.17	
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.10	105	2.00	3.21	
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.25	104	6.00	2.16	
Total BTEX	<0.300	0.300	10/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	1880	16.0	10/27/2023	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	10/27/2023	ND	193	96.7	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/27/2023	ND	182	91.1	200	0.919	
EXT DRO >C28-C36	<10.0	10.0	10/27/2023	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/31/2023	Sampling Type:	Soil
Project Name:	SOPAPILLA STATE 2D CTB FLEX LINE RE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03252	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA CO NM		

Sample ID: AH - 23 - 3 (2'-3') (H235826-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/27/2023	ND	2.05	103	2.00	4.27	
Toluene*	<0.050	0.050	10/27/2023	ND	2.10	105	2.00	3.17	
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.10	105	2.00	3.21	
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.25	104	6.00	2.16	
Total BTEX	<0.300	0.300	10/27/2023	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	576	16.0	10/27/2023	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	10/27/2023	ND	193	96.7	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/27/2023	ND	182	91.1	200	0.919	
EXT DRO >C28-C36	<10.0	10.0	10/27/2023	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/31/2023	Sampling Type:	Soil
Project Name:	SOPAPILLA STATE 2D CTB FLEX LINE RE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03252	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA CO NM		

Sample ID: AH - 23 - 3 (3'-4') (H235826-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/27/2023	ND	2.05	103	2.00	4.27	
Toluene*	<0.050	0.050	10/27/2023	ND	2.10	105	2.00	3.17	
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.10	105	2.00	3.21	
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.25	104	6.00	2.16	
Total BTEX	<0.300	0.300	10/27/2023	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	176	16.0	10/27/2023	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	10/27/2023	ND	193	96.7	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/27/2023	ND	182	91.1	200	0.919	
EXT DRO >C28-C36	<10.0	10.0	10/27/2023	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/24/2023	Sampling Date:	10/24/2023
Reported:	10/31/2023	Sampling Type:	Soil
Project Name:	SOPAPILLA STATE 2D CTB FLEX LINE RE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03252	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA CO NM		

Sample ID: AH - 23 - 4 (H235826-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/27/2023	ND	2.05	103	2.00	4.27	
Toluene*	<0.050	0.050	10/27/2023	ND	2.10	105	2.00	3.17	
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.10	105	2.00	3.21	
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.25	104	6.00	2.16	
Total BTEX	<0.300	0.300	10/27/2023	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	256	16.0	10/27/2023	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	10/27/2023	ND	193	96.7	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/27/2023	ND	182	91.1	200	0.919	
EXT DRO >C28-C36	<10.0	10.0	10/27/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

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: <u>Conoco Phillips</u>		BILL TO		ANALYSIS REQUEST																						
Project Manager: <u>Christian Lull</u>		P.O. #:		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> </div>																						
Address:		Company: <u>Tetra Tech</u>																								
City: State: Zip:		Attn: <u>Christian Lull</u>																								
Phone #: Fax #:		Address:																								
Project #: <u>2120-MD-03252</u> Project Owner:		City:																								
Project Name: <u>Sopapilla State 2D CTB Flex Line</u>		State: Zip:																								
Project Location: <u>Lea Co, NM</u> Release		Phone #:																								
Sampler Name: <u>Andrew Garcia</u>		Fax #:																								
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																		
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	2023 DATE	TIME													
<u>H235826</u>	AH-23-1	<u>G</u>	<u>1</u>		<u>X</u>				<u>X</u>			<u>10/24</u>	<u>0900</u>	<u>X</u>	<u>X</u>	<u>X</u>										
<u>1</u>	AH-23-2												<u>0930</u>													
<u>2</u>	AH-23-3 (0'-1')												<u>0945</u>													
<u>3</u>	AH-23-3 (2'-3')												<u>1000</u>													
<u>4</u>	AH-23-3 (3'-4')												<u>1015</u>													
<u>5</u>	AH-23-4												<u>1030</u>													
<u>6</u>																										

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Relinquished By: <u>Andrew Garcia</u>	Date: <u>10/24/23</u>	Received By: <u>Sofia Drigman</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Time: <u>1405</u>	Received By:	All Results are emailed. Please provide Email address: <u>Christian.Lull@TetraTech.com</u>
Delivered By: (Circle One)	Observed Temp. °C: <u>3.8°C</u>	Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact	REMARKS: <u>Lisbeth.Chavira@TetraTech.com</u> <u>Sam.Abbott@TetraTech.com</u>
Sampler - UPS - Bus - Other:	Corrected Temp. °C:	CHECKED BY: (Initials) <u>SK</u>	Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush
			Thermometer ID #140 Correction Factor 0°C
			Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C

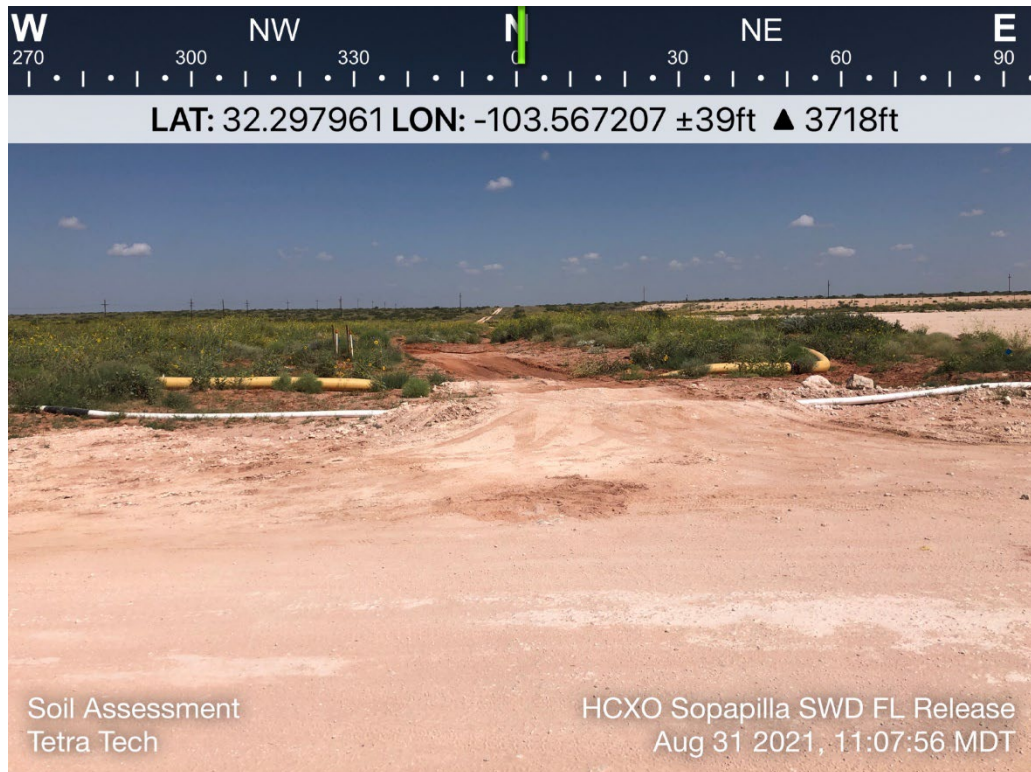
† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

APPENDIX F

Photographic Documentation



TETRA TECH, INC. PROJECT NO. 212C-MD-02532A	DESCRIPTION	View northeast of the release area near the flowline running to the Sopapilla SWD. Partially buried surface polyline.	1
	SITE NAME	ConocoPhillips Sopapilla SWD Release	8/31/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02532A	DESCRIPTION	View north of the release area near the flowline running to the Sopapilla SWD. Partially buried surface polyline.	2
	SITE NAME	ConocoPhillips Sopapilla SWD Release	8/31/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02532A	DESCRIPTION	View of the release area near the flowline running to the Sopapilla SWD.	3
	SITE NAME	ConocoPhillips Sopapilla SWD Release	8/31/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02532A	DESCRIPTION	View of the release area near the flowline running to the Sopapilla SWD.	4
	SITE NAME	ConocoPhillips Sopapilla SWD Release	8/31/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02532A	DESCRIPTION	View of the release area near the flowline running to the Sopapilla SWD. Partially buried surface polyline.	5
	SITE NAME	ConocoPhillips Sopapilla SWD Release	8/31/2021



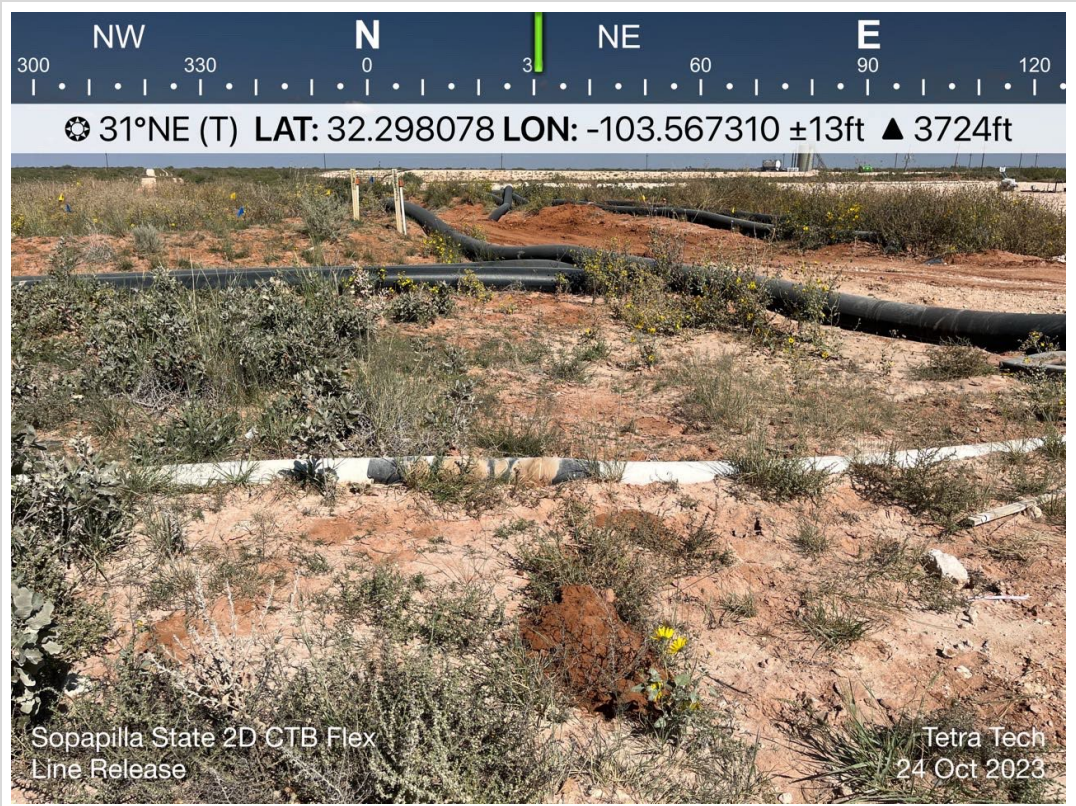
TETRA TECH, INC. PROJECT NO. 212C-MD-03252	DESCRIPTION	View west-northwest of approximate release area near the flowline running to the Sopapilla SWD. Lay flat lines and surface polyline.	6
	SITE NAME	Sopapilla State 2D CTB Flex Line Release	10/24/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03252	DESCRIPTION	View west-northwest of hand auger locations in approximate release area near the flowline running to the Sopapilla SWD. Lay flat lines and surface polyline.	7
	SITE NAME	Sopapilla State 2D CTB Flex Line Release	10/24/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03252	DESCRIPTION	View north-northwest of approximate release area near the flowline running to the Sopapilla SWD. View of 2023 site assessment activities.	8
	SITE NAME	Sopapilla State 2D CTB Flex Line Release	10/24/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03252	DESCRIPTION	View north-northeast of approximate release area near the flowline running to the Sopapilla SWD. Mass of lay flat lines and repaired surface flowline.	9
	SITE NAME	Sopapilla State 2D CTB Flex Line Release	10/24/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03252	DESCRIPTION	View north-northeast of approximate release area near the flowline running to the Sopapilla SWD. View of repaired surface flow line.	10
	SITE NAME	Sopapilla State 2D CTB Flex Line Release	10/24/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03252	DESCRIPTION	View west of approximate release area near the flowline running to the Sopapilla SWD.	11
	SITE NAME	Sopapilla State 2D CTB Flex Line Release	10/24/2023

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
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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

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

QUESTIONS

Action 306592

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	306592
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2115525504
Incident Name	NAPP2115525504 SOPAPILLA STATE 2D CTB @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source

Please answer all the questions in this group.

Site Name	SOPAPILLA STATE 2D CTB
Date Release Discovered	05/25/2021
Surface Owner	State

Incident Details

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 10 BBL Recovered: 0 BBL Lost: 10 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 306592

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 306592
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	
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.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 01/23/2024

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1220 S. St Francis Dr.
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QUESTIONS, Page 3

Action 306592

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	306592
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	0
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	01/24/2024
On what date will (or did) the final sampling or liner inspection occur	01/24/2024
On what date will (or was) the remediation complete(d)	01/24/2024
What is the estimated surface area (in square feet) that will be reclaimed	0.1
What is the estimated volume (in cubic yards) that will be reclaimed	0.1
What is the estimated surface area (in square feet) that will be remediated	0.1
What is the estimated volume (in cubic yards) that will be remediated	0.1
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 306592

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	306592
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	No remediation report was needed. Closure report

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 01/23/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 306592

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
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Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

District I

1625 N. French Dr., Hobbs, NM 88240
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QUESTIONS, Page 6

Action 306592

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	306592
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	301509
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/24/2023
What was the (estimated) number of samples that were to be gathered	6
What was the sampling surface area in square feet	1325

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Excavation activities not necessary based on results of assessment sampling and NMSLO closure approval.

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 (in .pdf format) 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.

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.

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 01/23/2024
--	---

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Energy, Minerals and Natural Resources
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QUESTIONS, Page 7

Action 306592

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	306592
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 306592

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 306592
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	4/8/2024