



July 10, 2023

District Supervisor
Oil Conservation Division, District 2
506 W. Texas Ave.
Artesia, New Mexico 88210

**Re: Closure Report
ConocoPhillips
Lusk Deep Unit A #019 Release
Unit Letter N, Section 17, Township 19 South, Range 32 East
Lea County, New Mexico
Incident ID# NKL1631349572
1RP-4502**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (COP) to assess an historical release that occurred from a line associated with the now plugged Lusk Deep Unit A #019 (API 30-025-35244). The release footprint is located in Public Land Survey System (PLSS) Unit Letter N, Section 17, Township 19 South, Range 32 East, in Lea County, New Mexico (Site). The approximate release point occurred on land owned by the Bureau of Land Management (BLM) at coordinates 32.655021°, -103.791603°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), the release was discovered on October 29, 2016, and occurred as the result of a hole in a polyline. Approximately 18 barrels (bbls) of produced water and 2 bbls of crude oil were reported released, of which 5 bbls of produced water were recovered. The C-141 form for the release was submitted to The New Mexico Oil Conservation District (NMOCD) by COG Operating, LLC (COG) on November 3, 2016. NMOCD received the C-141 report form for the release on November 8, 2016 and subsequently assigned the release the Remediation Permit (RP) number 1RP-4502 and the Incident ID Nkl1631349572.

The Lusk Deep Unit A #019 Release (NKL1631349572) is included in an Agreed Compliance Order ("ACO") with the NMOCD, related to unresolved releases from COPC's predecessor-in-interest ("COG"). The ACO required COPC to submit characterization and/or remediation plans with proposed timeframes for the ongoing corrective actions or remediations identified to the NMOCD no later than March 31, 2022.

As of March 11, 2022, COP has submitted characterization and remediation plans for all of the properties identified and owned. All documentation was submitted in accordance with ACO terms. These documents were submitted to the NMOCD via CentreStack, a Secure Access & File Sharing platform, at the direction of Mr. Bradford Billings, NMOCD. The Closure Request previously completed by Tetra Tech was included as a portion of the ACO.

SITE CHARACTERIZATION

A site characterization was performed and no sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, stream bodies, wetlands, incorporated municipal

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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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 are no water wells within ½ mile (800 meters) of the Site. The Site Characterization data are presented in Appendix B.

LAND OWNERSHIP

The Site is located on land owned by the Bureau of Land Management (BLM). Tetra Tech requested BLM clearance to remediate via email. The BLM cleared the Site for remediation activities via email, following a desktop review conducted by Shelly Taylor of the BLM. Email correspondence with the BLM is included in Appendix C.

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, and 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 previously established site characterization by COG and in accordance with Table I of 19.15.29.12 NMAC, the RRALs for the Site are as follows:

Constituent	Site RRAL
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

SITE ASSESSMENT ACTIVITIES AND SAMPLING RESULTS

On December 1, 2016, Tetra Tech personnel were onsite to conduct a soil assessment. Using a backhoe, four (4) trenches (T-1 through T-4) were excavated inside the release extent. A total of twenty-four (24) samples were collected from the trench locations and transferred under chain of custody to Cardinal Laboratories (Cardinal). Selected samples were analyzed for chlorides via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. The analytical results from trench locations T-1 through T-4 exceeded the Site RRAL for chloride (600 mg/kg) at depths ranging from 0 to 8 feet below ground surface (bgs).

Based on a review of the collected analytical results, Tetra Tech personnel returned to the site on March 28, 2017, to complete vertical delineation of the release. Three (3) borings were completed using an air rotary drill rig to a maximum depth of 65 feet bgs. The borings were advance in the vicinity of trench locations T-2, T-3, and T-4. A total of twenty-nine (29) samples were collected from the boring locations and transferred under chain of custody to Cardinal to be analyzed for chlorides via EPA Method 300.0. The analytical results from boring locations BH-1, BH-2 and BH-3 exceeded the Site RRAL for chloride at depths ranging from; 0 to 60 feet bgs at BH-1, 9 to 60 feet bgs at BH-2 and 9 to 19 feet bgs at BH-3.

Analytical results from the site assessment are summarized in Table 1. Trench and boring locations are shown in Figure 3.

COG WORK PLAN

A Work Plan, dated June 8, 2017, was submitted by Tetra Tech on behalf of COG to the NMOCD via email describing the assessment activities and sampling results. In the Work Plan, COG proposed excavating the impacted area in the vicinity of sample location T-1 to a depth of 3 feet bgs, and excavating the areas of T-2, T-3 and T-4 to a depth of 4-5 feet bgs. Additionally, the areas of trenches T-2, T-3, and T-4 were proposed to be capped with a 40-mil liner to prevent vertical migration of impact.

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Post-remediation excavated areas would be backfilled with clean material to surface grade. The Work Plan was approved by Ms. Olivia Yu on June 28, 2017, with the following comments:

"NMOCD approves of the delineation completed for 1RP-4502 and proposed remediation plan with these conditions:

- 1. Trench 1 area: confirmatory bottom and sidewall samples at proposed excavation depth of 3 ft. bgs. If samples exceed permissible chloride levels (> 600 mg/kg), excavate to 4 ft. bgs.*
- 2. Trench 2-4 areas: sidewall confirmation samples."*

A Copy of the approved Work Plan is available in the NMOCD online incident files. Relevant pages from the Work Plan approval are included in Appendix C.

CLOSURE REQUEST AND NMOCD REJECTION

The Approved Work Plan was not executed following NMOCD approval. In its place, a Closure Request, dated November 8, 2018, was submitted by Tetra Tech on behalf of COG, via email. As the closure request described, the release occurred in the area of a former reserve pit. In the Closure Request, COG proposed leaving contamination in place as all chloride detections were below the Site RRALs. Additionally, significant vegetation growth was observed during a Site inspection of the release footprint. The Closure Request was rejected by Brittany Hall on November 9, 2022, with the following comments:

- The upper 4 feet of the impacted area does not meet the requirements of 19.15.29.13 NMAC.*
- In Appendix D, in the Surface Use and Operating Plan, it states that the reserve pit is lined. Please provide any information if any liner material was found during investigation activities.*
- Please submit a closure report through the OCD Permitting website by 1/10/2023.*

A 90-day extension request to July 10, 2023, was approved in an email dated April 28, 2023. NMOCD correspondence is included in Appendix C.

REMEDIAL ACTIVITIES AND CONFIRMATION SAMPLING

Thus, based on the approved Work Plan and the stipulations of the NMOCD rejection, in June 2023 Tetra Tech mobilized to the site to conduct the remedial action proposed in the 2017 Work Plan. Tetra Tech coordinated with the BLM prior to the inception of field work. Accordingly, from June 13 to June 20, 2023, Tetra Tech personnel were onsite to supervise the remediation activities proposed in the approved Work Plan, including excavation, disposal, and confirmation sampling. Prior to confirmation sampling, on June 7, 2023, the NMOCD district office was notified via email in accordance with Subsection D of 19.15.29.12 NMAC. Documentation of associated regulatory correspondence is included in Appendix C.

Per the approved Work Plan, impacted soils were excavated as shown in Figure 4. The area within the release footprint were excavated to 4 feet below surrounding grade. The area of T-1 was excavated to 4' bgs, deeper than the originally scoped 3' bgs. All excavated material was transported offsite for proper disposal. Approximately 536 cubic yards of material were transported to the R360 Halfway Facility in Hobbs, New Mexico. Copies of the waste manifests are included in Appendix D.

Following excavation, confirmation sidewall samples were collected and submitted for laboratory analysis to verify efficacy of remediation activities. The approximate impacted area was 4,335 square feet. Per Subsection D of 19.15.29.12 NMAC, confirmation samples were collected such that each discrete sidewall sample was representative of no more than 200 square feet of excavated area. A total of twenty-two (22) confirmation sidewall samples were collected during remedial activities. Confirmation sidewall sample locations were categorized with the cardinal direction (N, E, S, W) followed by SW-#. Excavated area and depth and confirmation sample locations are indicated in Figure 4.

Collected confirmation samples were placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed within appropriate holding times by Cardinal. The soil samples were analyzed for TPH (GRO+DRO+MRO) by EPA Method 8015M, BTEX by EPA Method 8021B, and chlorides by SM4500Cl-B. The analytical results were directly compared to the established Site RRALs. All final

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confirmation sidewall soil samples were below applicable cleanup levels for chloride, TPH and BTEX. The results of the June 2023 confirmation sampling event are summarized in Table 2. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E.

Once sidewall confirmation sampling activities were completed and associated analytical results were below the Site RRALs, per the NMOCD approval, a 40-mil poly liner was installed at the base of the remediation and the excavated areas were backfilled with clean material to surface grade. Photographic documentation of the excavated areas prior to and immediately following placement of backfill are provided in Appendix F. Based on the soils at the site, the LPC Sand/Shinnery Sites seed mixture was used for seeding and planted in the amount specified in the pounds pure live seed (PLS) per acre.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the BLM will be contacted to determine an effective method of eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate.

CONCLUSION

ConocoPhillips respectfully requests closure of the release based on the confirmation sampling results and remediation and reclamation activities performed. The final C-141 forms are enclosed in Appendix A. If you have any questions concerning the remediation activities for the Site, please call me at (512) 560-9064 or Christian Llull at (512) 338-2861.

Sincerely,

Tetra Tech, Inc.



Nicholas M. Poole
Project Lead

cc:

Mr. Ike Tavarez, RMR – ConocoPhillips
Mr. Jacqui Harris, GPBU - ConocoPhillips



Christian M. Llull, P.G.
Program Manager

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LIST OF ATTACHMENTS

Figures:

- Figure 1 – Overview Map
- Figure 2 – Site Location/Topographic Map
- Figure 3 – Approximate Release Extent and Site Assessment
- Figure 4 – Remediation Extent and Confirmation Sampling

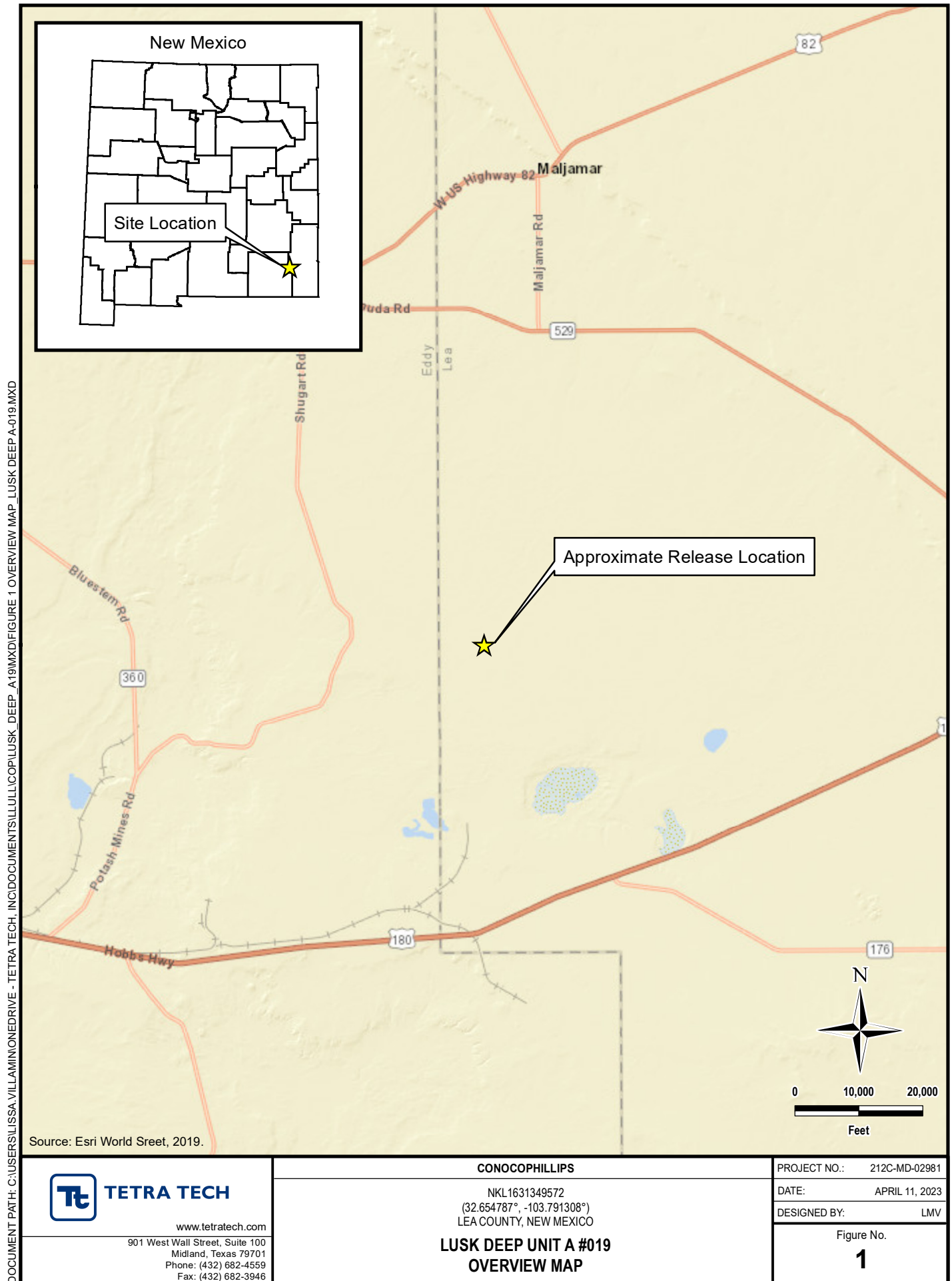
Tables:

- Table 1 – Summary of Analytical Results – Soil Assessment (2016/2017)
- Table 2 – Summary of Analytical Results – Confirmation Sampling

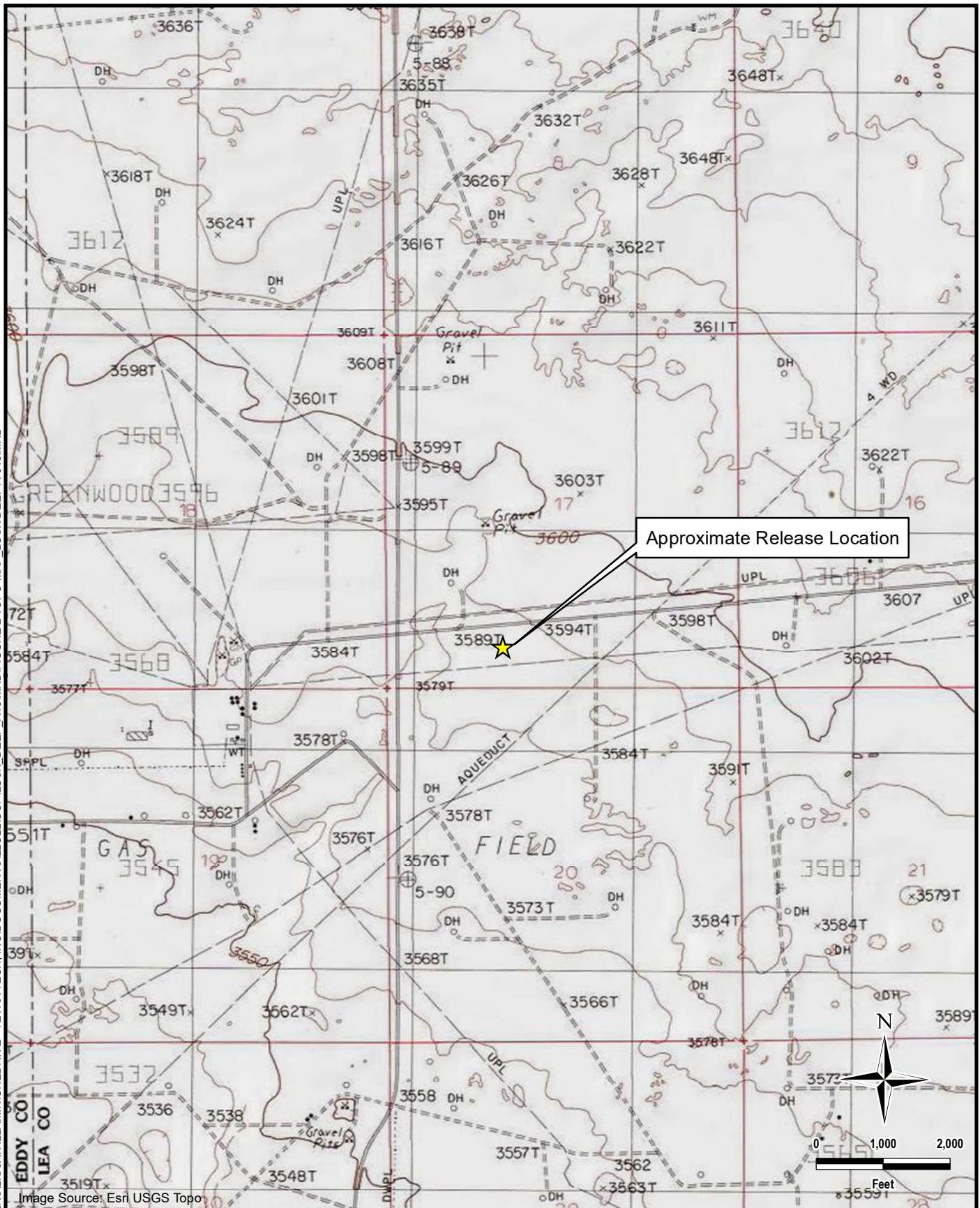
Appendices:

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

FIGURES



DOCUMENT PATH: C:\USERS\LISSA.VILLAMONEDRIVE - TETRA TECH, INC\DOCUMENTS\LUCK DEEP A-019.MXD

**TETRA TECH**

www.tetrattech.com

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

CONOCOPHILLIPS

NKL1631349572
(32.654787°, -103.791308°)
LEA COUNTY, NEW MEXICO

**LUCK DEEP UNIT A #019
TOPOGRAPHIC MAP**

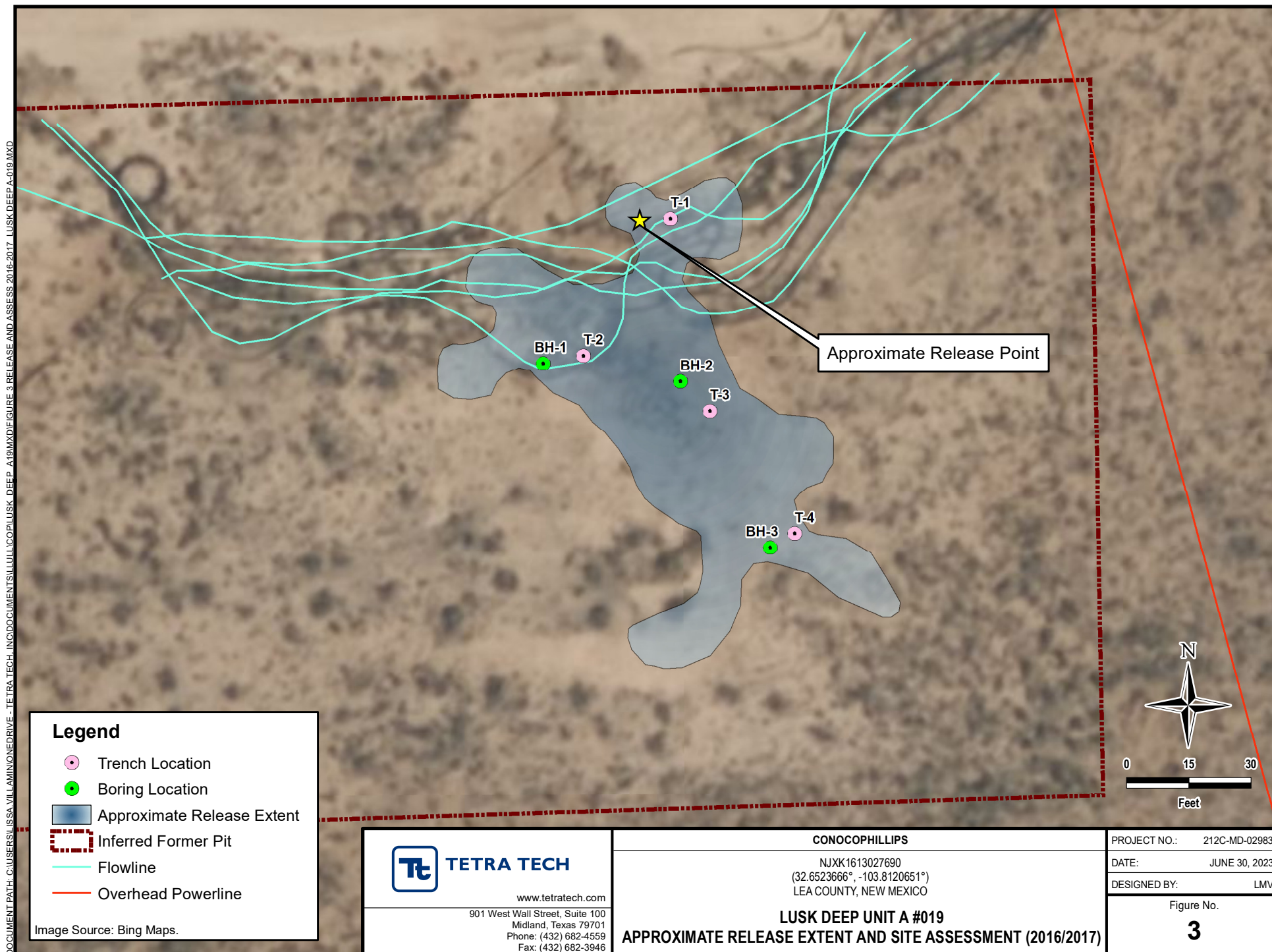
PROJECT NO.: 212C-MD-02981

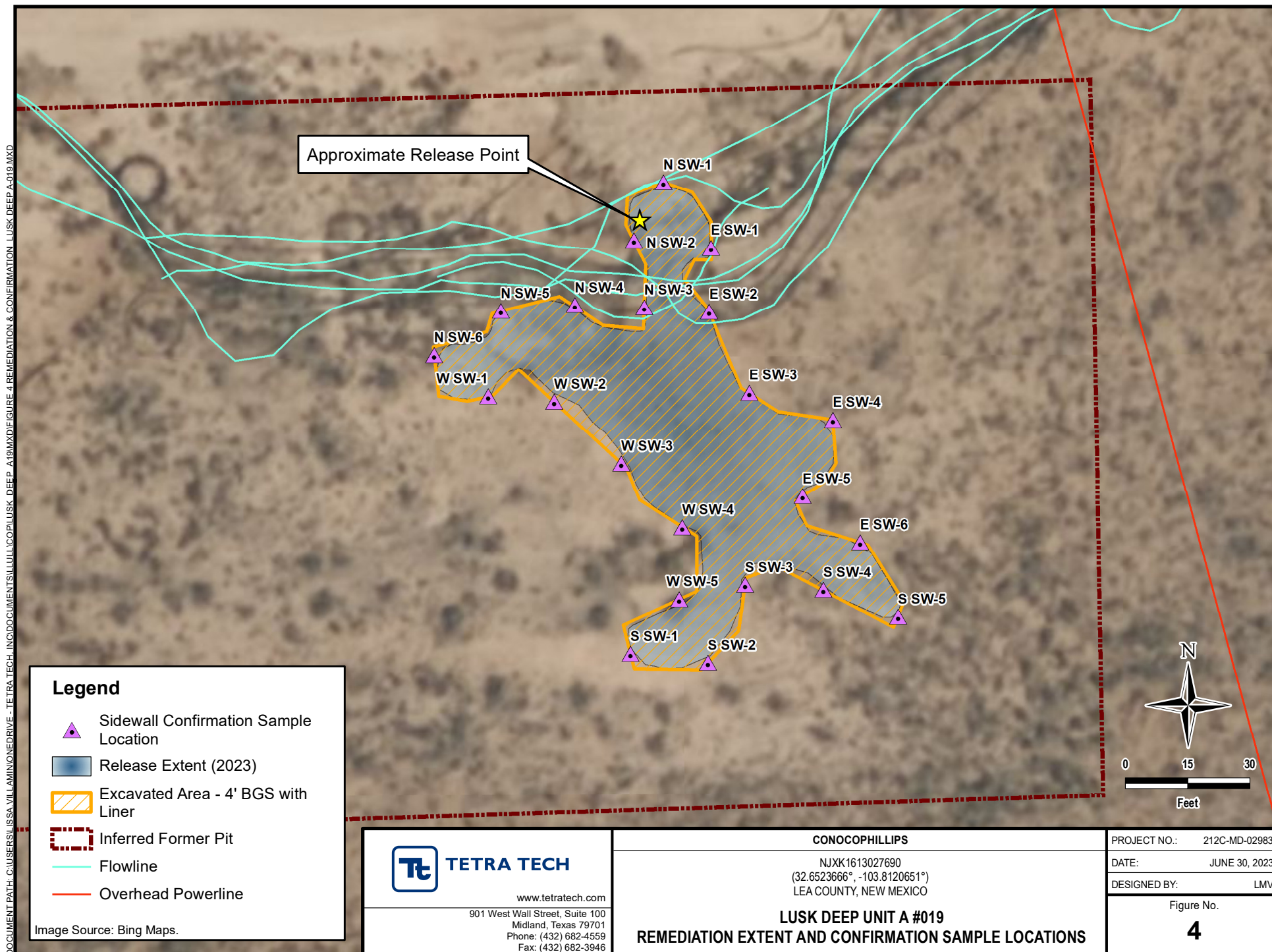
DATE: APRIL 11, 2023

DESIGNED BY: LMV

Figure No.

2





TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT- (nKL1631349572)
CONOCOPHILLIPS
LUSK DEEP UNIT A19
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
															C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆			
		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	
T-1	12/1/2016	0-1	5120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		10.10		-		10.10	
		2	8800		NS		NS		NS		NS		NS		NS		NS		NS		-	
		3	8400		NS		NS		NS		NS		NS		NS		NS		NS		-	
		4	880		NS		NS		NS		NS		NS		NS		NS		NS		-	
		6	64		NS		NS		NS		NS		NS		NS		NS		NS		-	
		8	160		NS		NS		NS		NS		NS		NS		NS		NS		-	
T-2	12/1/2016	0-1	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		-		-	
		2	4720		NS		NS		NS		NS		NS		NS		NS		NS		-	
		3	1300		NS		NS		NS		NS		NS		NS		NS		NS		-	
		4	3440		NS		NS		NS		NS		NS		NS		NS		NS		-	
		6	1310		NS		NS		NS		NS		NS		NS		NS		NS		-	
		8	4530		NS		NS		NS		NS		NS		NS		NS		NS		-	
T-3	12/1/2016	0-1	4800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		-		-	
		2	4560		NS		NS		NS		NS		NS		NS		NS		NS		-	
		3	992		NS		NS		NS		NS		NS		NS		NS		NS		-	
		4	1630		NS		NS		NS		NS		NS		NS		NS		NS		-	
		6	1090		NS		NS		NS		NS		NS		NS		NS		NS		-	
		8	3880		NS		NS		NS		NS		NS		NS		NS		NS		-	
T-4	12/1/2016	0-1	6000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		-		-	
		2	4400		NS		NS		NS		NS		NS		NS		NS		NS		-	
		3	240		NS		NS		NS		NS		NS		NS		NS		NS		-	
		4	2200		NS		NS		NS		NS		NS		NS		NS		NS		-	
		6	2520		NS		NS		NS		NS		NS		NS		NS		NS		-	
		8	2120		NS		NS		NS		NS		NS		NS		NS		NS		-	

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT- (nKL1631349572)
CONOCOPHILLIPS
LUSK DEEP UNIT A19
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
		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		
BH-1 (T-2)	3/28/2017	0-1	1120		NS		NS		NS		NS		NS		NS		NS		NS		-	
		2-3	2860		NS		NS		NS		NS		NS		NS		NS		NS		-	
		4-5	1500		NS		NS		NS		NS		NS		NS		NS		NS		-	
		6-7	1490		NS		NS		NS		NS		NS		NS		NS		NS		-	
		9-10	2680		NS		NS		NS		NS		NS		NS		NS		NS		-	
		14-15	4850		NS		NS		NS		NS		NS		NS		NS		NS		-	
		19-20	3880		NS		NS		NS		NS		NS		NS		NS		NS		-	
		24-25	4010		NS		NS		NS		NS		NS		NS		NS		NS		-	
		29-30	4230		NS		NS		NS		NS		NS		NS		NS		NS		-	
		39-40	2820		NS		NS		NS		NS		NS		NS		NS		NS		-	
		49-50	3060		NS		NS		NS		NS		NS		NS		NS		NS		-	
		59-60	1590		NS		NS		NS		NS		NS		NS		NS		NS		-	
		64-65	306		NS		NS		NS		NS		NS		NS		NS		NS		-	
69-70	194		NS		NS		NS		NS		NS		NS		NS		NS		-			
BH-2 (T-3)	3/28/2017	9-10	6030		NS		NS		NS		NS		NS		NS		NS		NS		-	
		14-15	3890		NS		NS		NS		NS		NS		NS		NS		NS		-	
		19-20	4630		NS		NS		NS		NS		NS		NS		NS		NS		-	
		24-25	2520		NS		NS		NS		NS		NS		NS		NS		NS		-	
		29-30	2090		NS		NS		NS		NS		NS		NS		NS		NS		-	
		39-40	1950		NS		NS		NS		NS		NS		NS		NS		NS		-	
		49-50	2810		NS		NS		NS		NS		NS		NS		NS		NS		-	
		59-60	976		NS		NS		NS		NS		NS		NS		NS		NS		-	
		64-65	354		NS		NS		NS		NS		NS		NS		NS		NS		-	
		69-70	170		NS		NS		NS		NS		NS		NS		NS		NS		-	
BH-3 (T-4)	3/28/2017	9-10	757		NS		NS		NS		NS		NS		NS		NS		NS		-	
		14-15	139		NS		NS		NS		NS		NS		NS		NS		NS		-	
		19-20	117		NS		NS		NS		NS		NS		NS		NS		NS		-	
		24-25	34.8		NS		NS		NS		NS		NS		NS		NS		NS		-	
		29-30	35.4		NS		NS		NS		NS		NS		NS		NS		NS		-	

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

NS Sample not analyzed for parameter

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
2023 SOIL REMEDIATION - nKL1631349572
CONOCOPHILLIPS
LUSK DEEP UNIT A19
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEx ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEx		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
		C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆																
		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	
NSW-1	6/15/2023	-	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	QM-07, QR-03	<10.0	QR-03	<10.0		-	
NSW-2	6/15/2023	-	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
NSW-3	6/15/2023	-	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
NSW-4	6/15/2023	-	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
NSW-5	6/15/2023	-	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
NSW-6	6/15/2023	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
ESW-1	6/15/2023	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
ESW-2	6/15/2023	-	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
ESW-3	6/15/2023	-	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
ESW-4	6/15/2023	-	272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
ESW-5	6/15/2023	-	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
ESW-6	6/15/2023	-	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SSW-1	6/15/2023	-	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SSW-2	6/15/2023	-	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SSW-3	6/15/2023	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SSW-4	6/15/2023	-	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SSW-5	6/15/2023	-	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-1	6/15/2023	-	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-2	6/15/2023	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-3	6/15/2023	-	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-4	6/15/2023	-	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-5	6/15/2023	-	48		<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

Bold and italicized values indicate exceedance of proposed RRALs.

Liner placed at the base of the 4-foot excavation

QUALIFIERS:

- 1

Method SM4500Cl-B
- QR-03

The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recover and/or RPD values.
- 2

Method 8021B
- QM-07

The spike recover was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 3

Method 8015M

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: COG Operating LLC	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-230-0077
Facility Name: Lusk Deep Unit A #19	Facility Type: Battery

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-025-35244
------------------------	------------------------	----------------------

LOCATION OF RELEASE

Unit Letter N	Section 17	Township 19S	Range 32E	Feet from the 660	North/South Line South	Feet from the 1650	East/West Line West	County Lea
------------------	---------------	-----------------	--------------	----------------------	---------------------------	-----------------------	------------------------	---------------

Latitude 32.655021314435 Longitude -103.791580657662

NATURE OF RELEASE

Type of Release: Oil and Produced Water	Volume of Release: 2 bbls of Oil ; 18 bbls of PW	Volume Recovered: 0 bbls of Oil ; 5 bbls of PW
Source of Release: Wellhead	Date and Hour of Occurrence: 10/29/2016 unknown	Date and Hour of Discovery: 10/29/2016 10:00 AM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*



Describe Cause of Problem and Remedial Action Taken.*

This release was caused by a hole in a poly flow line. The damaged section of line was removed and replaced. Vacuum trucks were immediately dispatched to recover the free standing fluid.

Describe Area Affected and Cleanup Action Taken.*

This release occurred in the pasture just off of the location. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Dakota Neel	Approved by Environmental Specialist: 	
Title: Environmental Coordinator	Approval Date: 11/8/2016	Expiration Date: 1/8/2017
E-mail Address: dneel2@concho.com	Conditions of Approval: Please see attached NMOCD Directive	Attached <input type="checkbox"/> 1RP 4502
Date: 11/3/2016 Phone: 575-748-6933		

* Attach Additional Sheets If Necessary

NMOCD accepts discrete samples only
Notify OCD prior to sampling

nKL1631349572
pKL1631349814

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 11/3/2016 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1RP 4503 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 1 office in Hobbs on or before 12/7/2016. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

**APPROVED****By Olivia Yu at 3:40 pm, Jun 28, 2017**

June 8, 2017

Ms. Olivia Yu
Environmental Engineer Specialist
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

NMOCD approves of the delineation completed for 1RP-4502 and proposed remediation plan with these conditions:

1. Trench 1 area: confirmatory bottom and sidewall samples at proposed excavation depth of 3 ft. bgs. If samples exceed permissible chloride levels (> 600 mg/kg), excavate to 4 ft. bgs.
2. Trench 2-4 areas: sidewall confirmation samples.

Re: Work Plan for the COG Operating LLC., Lusk Deep Unit A #19, Unit N, Section 17, Township 19 South, Range 32 East, Lea County, New Mexico. 1RP-4502.

Ms. Yu:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC., (COG) to assess a release that occurred at the Lusk Deep Unit A #19, Unit N, Section 17, Township 19 South, Range 32 East, Lea County, New Mexico (Site). The spill site coordinates are N 32.65482°, W 103.79138°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on October 29, 2016, and released approximately two (2) bbls of oil and eighteen (18) bbls of produced water due to a hole in a poly flowline. Approximately five (5) bbls of produced water was recovered, however none of the oil was recovered. The release occurred in the pasture to the south of the facility and impacted an area measuring approximately 90'x130'. The initial C-141 form is included in Appendix A.

Groundwater

No water wells were listed within Section 17 on the New Mexico Office of the State Engineer's database. The nearest well is located in Section 20 with a reported depth to water of approximately 345' below surface. According to the Chevron Texaco Groundwater Trend map, the average depth to groundwater in this area is greater than 300' below surface. The groundwater data is shown in Appendix B.

Tetra Tech

4000 North Big Spring, Suite 401, Midland, TX 79705

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com

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:  _____ 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

Site Characterization (COG)

Water Well Data
Average Depth to Groundwater (ft)
COG - Lusk Deep Unit A #19
Lea County, New Mexico

18 South			31 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	98	14
19	20	21	22	317	24
30	29	28	27	26	25
31	32	33	34	261	36

19 South			31 East		
6	5	4	3	2	1
7	SITE	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

20 South			31 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

18 South			32 East		
6	5	4	65	3	2
7	460	8	9	10	11
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

19 South			32 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

20 South			32 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

18 South			33 East		
6	5	4	3	2	1
7	8	100	9	10	11
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

19 South			33 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	130	27	26
31	32	33	34	35	36

20 South			33 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

88 New Mexico State Engineers Well Reports

105 USGS Well Reports

90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)
 Geology and Groundwater Resources of Eddy County, NM (Report 3)

34 NMOCD - Groundwater Data

123 Tetra Tech installed temporary wells and field water level

143 NMOCD Groundwater map well location



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	Depth Well	Depth Water	Water Column
CP 00073	CP	LE		2	4	34	19S	32E		617502	3609301	575		
CP 00075		LE		2	4	34	19S	32E		617502	3609301	575		
CP 00563 POD1	CP	LE		1	1	2	19	19S	32E	612118	3613376*	300		
CP 00639 POD1	CP	LE		3	1	20	19S	32E		613029	3612880*	350	345	5
CP 00640 POD1	CP	LE		2	2	19	19S	32E		612621	3613280*	260	102	158
CP 00812 POD1	CP	LE		4	4	01	19S	32E		620623	3616973*	200		

Average Depth to Water: **223 feet**

Minimum Depth: **102 feet**

Maximum Depth: **345 feet**

Record Count: 6

PLSS Search:

Township: 19S

Range: 32E

*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.

4/10/17 10:22 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:


Groundwater

Geographic Area:

New Mexico

GO

Click to hide News Bulletins

- [Please see news on new formats](#)
- **As of 10:00am Friday, October 26, 10% of USGS streamgages are still not transmitting due to an issue with the telemetry system that records and transmits streamgage data. With the National Weather Service and numerous other federal, state, and local partners, the USGS is determining priorities for restoration. On-stock nationwide inventory is quickly being distributed based on that prioritization and work will continue through the weekend. Read [more](#)**
- [Full News](#) 

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

site_no list =

- 324040103464801

Minimum number of levels = 1

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

USGS 324040103464801 19S.32E.08.22411

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code --

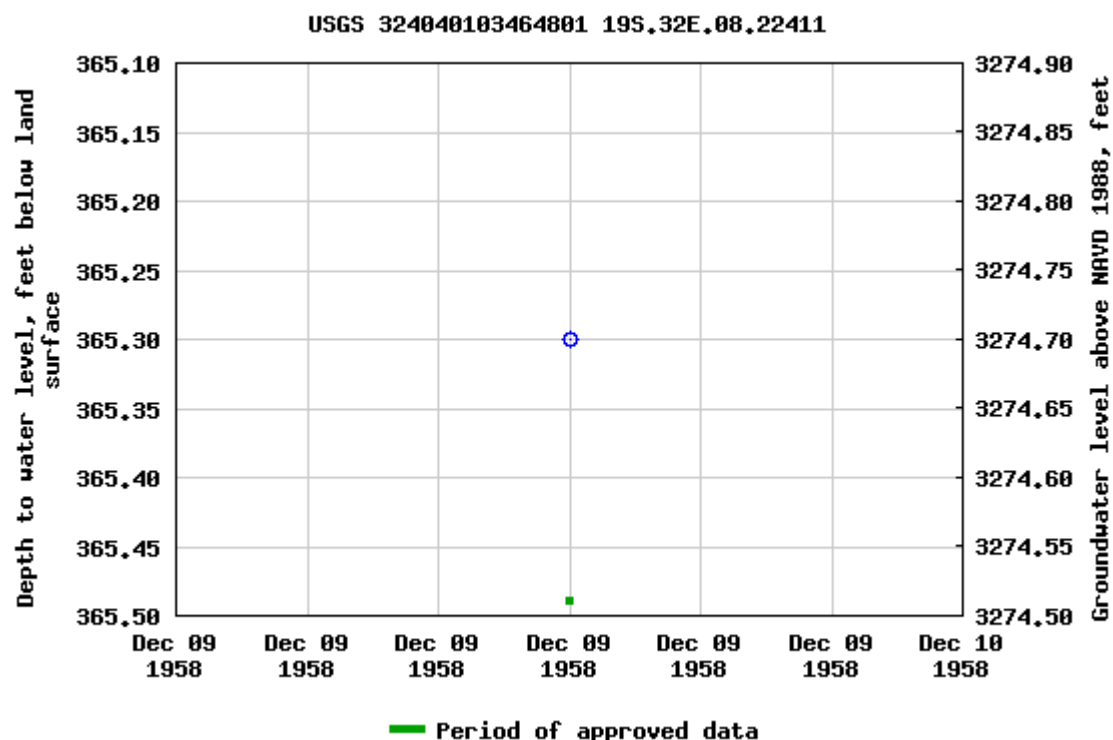
Latitude 32°40'40", Longitude 103°46'48" NAD27

Land-surface elevation 3,640 feet above NAVD88

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

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[Privacy](#)

[Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for New Mexico: Water Levels

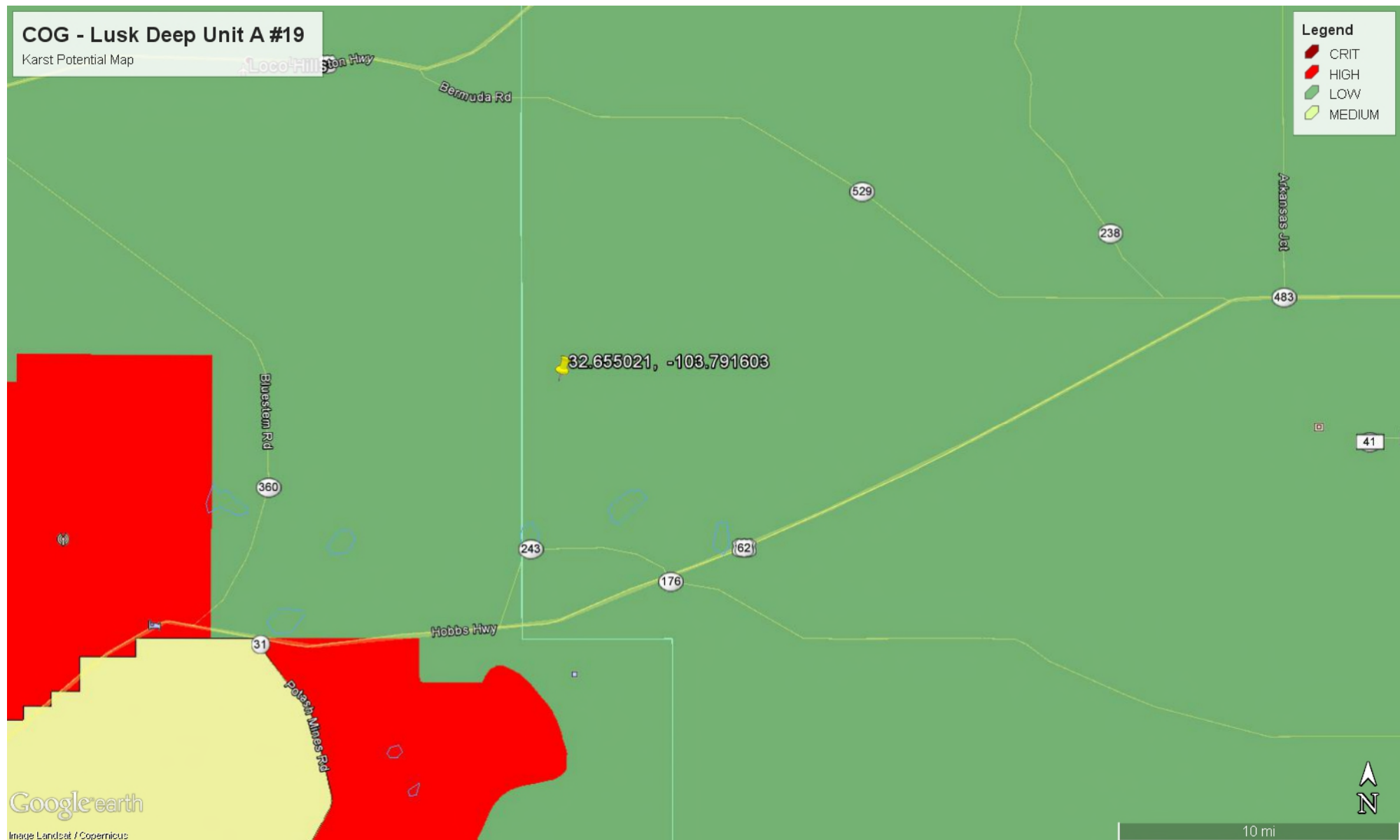
URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>



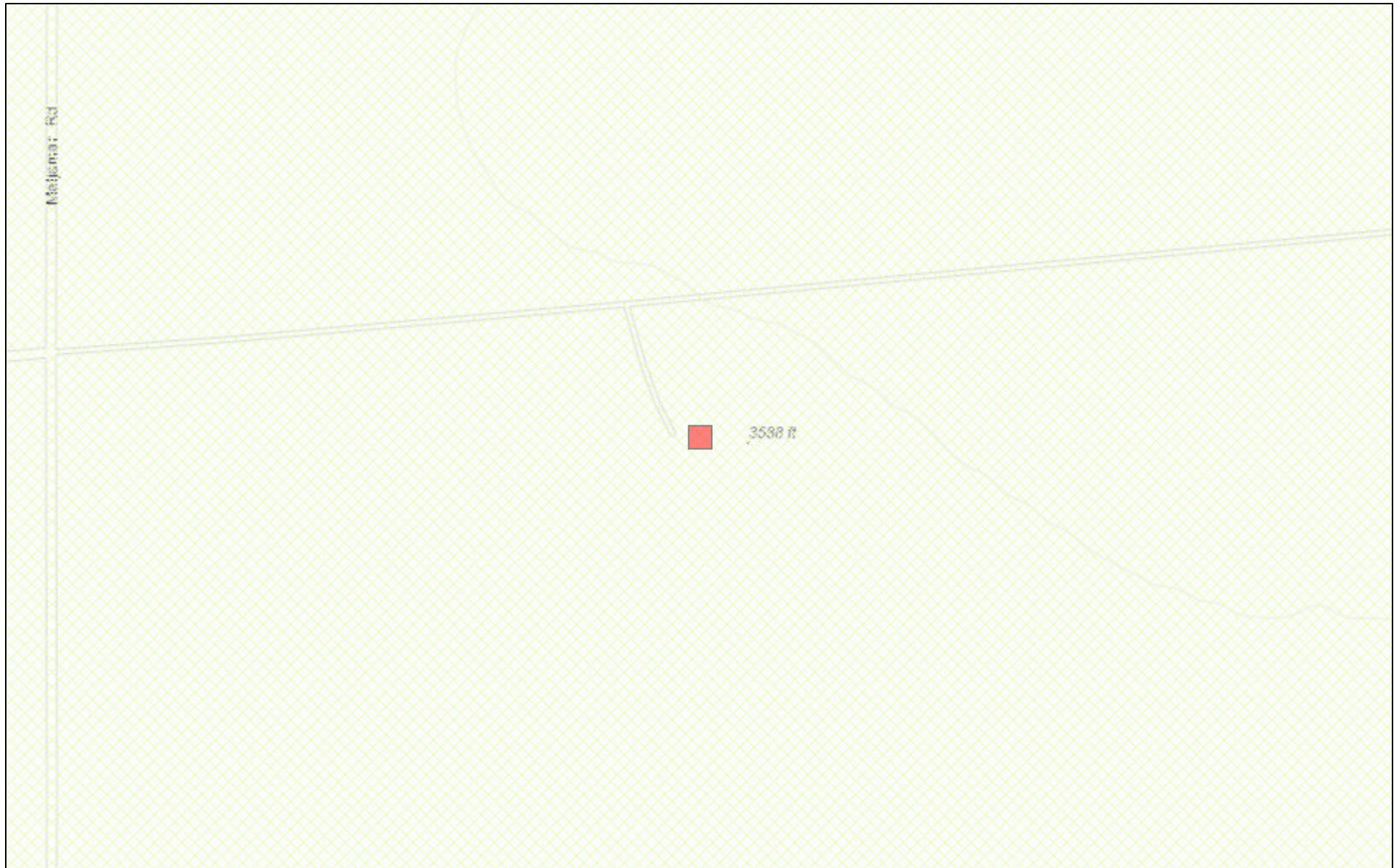
Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2018-10-29 14:28:34 EDT

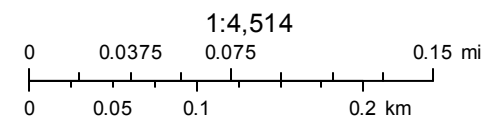
1.03 0.89 nadww01



New Mexico NFHL Data



October 29, 2018



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



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
CP 01656 POD2	CP	LE		3	4	3	17	19S	32E	613364	3613648	29	70		
CP 01656 POD1	CP	LE		3	4	3	17	19S	32E	613368	3613646	34	70		
CP 01656 POD3	CP	LE		3	4	3	17	19S	32E	613374	3613633	43	30		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 613334

Northing (Y): 3613650.61

Radius: 800

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.

4/10/23 11:07 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



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
CP 01656 POD2	CP	LE		3	4	3	17	19S	32E	613364	3613648	29	70		
CP 01656 POD1	CP	LE		3	4	3	17	19S	32E	613368	3613646	34	70		
CP 01656 POD3	CP	LE		3	4	3	17	19S	32E	613374	3613633	43	30		
CP 00640 POD1	CP	LE			2	2	19	19S	32E	612621	3613280*	803	260	102	158
CP 00639 POD1	CP	LE			3	1	20	19S	32E	613029	3612880*	828	350	345	5
CP 00563 POD1	CP	LE		1	1	2	19	19S	32E	612118	3613376*	1246	300		

Average Depth to Water: **223 feet**

Minimum Depth: **102 feet**

Maximum Depth: **345 feet**

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 613334

Northing (Y): 3613650.61

Radius: 1300

*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.

4/10/23 11:50 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

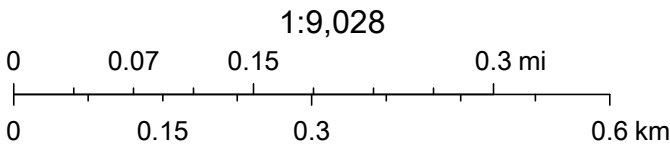
OCD Potential Karst Map



4/10/2023, 12:00:48 PM

Karst Occurrence Potential

Low



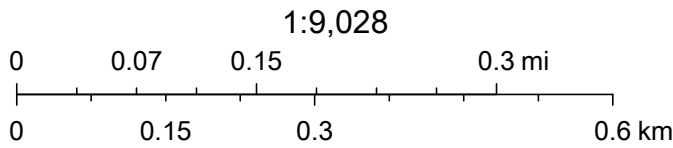
BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, iPC, Maxar

OCD Waterbodies Map



4/10/2023, 12:03:08 PM

— OSE Streams



Esri, HERE, Garmin, IPC, Maxar, NM OSE

APPENDIX C

Regulatory Correspondence

**TETRA TECH****APPROVED****By Olivia Yu at 3:40 pm, Jun 28, 2017**

June 8, 2017

Ms. Olivia Yu
Environmental Engineer Specialist
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

NMOCD approves of the delineation completed for 1RP-4502 and proposed remediation plan with these conditions:

1. Trench 1 area: confirmatory bottom and sidewall samples at proposed excavation depth of 3 ft. bgs. If samples exceed permissible chloride levels (> 600 mg/kg), excavate to 4 ft. bgs.
2. Trench 2-4 areas: sidewall confirmation samples.

Re: Work Plan for the COG Operating LLC., Lusk Deep Unit A #19, Unit N, Section 17, Township 19 South, Range 32 East, Lea County, New Mexico. 1RP-4502.

Ms. Yu:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC., (COG) to assess a release that occurred at the Lusk Deep Unit A #19, Unit N, Section 17, Township 19 South, Range 32 East, Lea County, New Mexico (Site). The spill site coordinates are N 32.65482°, W 103.79138°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on October 29, 2016, and released approximately two (2) bbls of oil and eighteen (18) bbls of produced water due to a hole in a poly flowline. Approximately five (5) bbls of produced water was recovered, however none of the oil was recovered. The release occurred in the pasture to the south of the facility and impacted an area measuring approximately 90'x130'. The initial C-141 form is included in Appendix A.

Groundwater

No water wells were listed within Section 17 on the New Mexico Office of the State Engineer's database. The nearest well is located in Section 20 with a reported depth to water of approximately 345' below surface. According to the Chevron Texaco Groundwater Trend map, the average depth to groundwater in this area is greater than 300' below surface. The groundwater data is shown in Appendix B.

Tetra Tech

4000 North Big Spring, Suite 401, Midland, TX 79705

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com



Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 5,000 mg/kg.

Soil Assessment and Analytical Results

On December 1, 2016, Tetra Tech personnel were onsite to evaluate and sample the release area. Using a backhoe, four (4) sample trenches (T-1, T-2, T-3, and T-4) were installed to a total depth of 8.0' below surface. Selected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The trench locations are shown on Figure 3.

Referring to Table 1, all of the samples showed total TPH, benzene, and total BTEX concentrations below the laboratory reporting limits. The area of trench (T-1) showed elevated chloride concentrations in the shallow soils with a chloride high of 8,800 mg/kg at 2.0' below surface. The chloride concentrations then declined with depth to 880 mg/kg at 4.0' and showed a bottom hole concentration of 160 mg/kg at 8.0' below surface. However, the areas of trenches (T-2, T-3, and T-4) showed elevated chloride concentrations that were not vertically defined with bottom hole (8.0' below surface) concentrations of 4,530 mg/kg, 3,880 mg/kg, and 2,120 mg/kg, respectively.

Based on the laboratory results, Tetra Tech personnel returned to the site on March 28, 2017, to supervise the installation of three (3) boreholes; BH-1 (T-2), BH-2 (T-3), and BH-3 (T-4), in order to vertically define the chloride impact in these areas. Selected samples were analyzed for chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The borehole locations are shown on Figure 3.

Referring to Table 1, the areas of boreholes (BH-1 and BH-2) showed elevated chloride concentrations in the deeper soils, with chloride highs of 4,850 mg/kg (14-15') and 6,030 mg/kg (9-10'), respectively. The chloride concentrations in these areas gradually declined with depth to below 400 mg/kg at 64-65' and showed bottom hole concentrations of 194 mg/kg (BH-1) and 170 mg/kg (BH-2) at 69-70' below surface. The area of borehole (BH-3) showed a chloride high of 757 mg/kg at 9-10', which rapidly declined with depth to 139 mg/kg at 14-15' and showed a bottom hole concentration of 35.4 mg/kg at 29-30' below surface.



Work Plan

Based on the laboratory results, COG proposes to remove the impacted material as highlighted (green) in Table 1 and shown on Figure 4. The area of trench (T-1) will be excavated to 3.0' below surface and the remaining areas of trenches (T-2, T-3, and T-4) will be excavated to 4.0-5.0' below surface to remove the elevated chloride impact in the shallow soils. Additionally, the areas of trenches (T-2, T-3, and T-4) will be capped with a 40 mil liner to prevent vertical migration of the impact. Once the areas are excavated to the appropriate depths and lined accordingly, the areas will be backfilled with clean material to surface grade. All of the excavated material will be transported offsite for proper disposal.

The proposed excavation depths may not be reached due to wall cave ins and safety concerns for onsite personnel. In addition, impacted soil around oil and gas equipment, structures or lines may not be feasible or practicable to be removed due to safety concerns for onsite personnel. As such, COG will excavate the impacted soils to the maximum extent practicable.

Upon completion, a final report detailing the remediation activities will be submitted to the NMOCD. If you have any questions or comments concerning the assessment or the proposed remediation activities for this site, please call at (432) 682-4559.

Respectfully submitted,
TETRA TECH

A handwritten signature in blue ink, reading 'Clair Gonzales'.

Clair Gonzales,
Geologist I

A handwritten signature in blue ink, reading 'Ike Tavaréz'.

Ike Tavaréz,
Senior Project Manager, P.G.

cc: Robert McNeill – COG
Dakota Neel – COG
Rebecca Haskell – COG
Shelly Tucker - BLM

Llull, Christian

From: Taylor, Shelly J <sjtaylor@blm.gov>
Sent: Tuesday, May 23, 2023 1:50 PM
To: Llull, Christian
Subject: Re: [EXTERNAL] Fwd: Lusk Deep Unit A #019 Release - Remediation

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You are cleared to proceed with remedial activities.

Sincerely,

Shelly J Taylor

Environmental Protection Specialist
Realty - Compliance

Bureau of Land Management/Carlsbad Field Office
620 E. Greene St
Carlsbad, NM 88220
Direct 575.234.5706
Mobile 575.499.6831
sjtaylor@blm.gov

Spill/Release email: **BLM_NM_CFO_REALTY_SPILL@BLM.GOV**

PLEASE NOTE: I have a new email address: sjtaylor@blm.gov



From: Llull, Christian <Christian.Llull@tetrattech.com>
Sent: Tuesday, May 23, 2023 9:14 AM
To: Taylor, Shelly J <sjtaylor@blm.gov>
Subject: [EXTERNAL] Fwd: Lusk Deep Unit A #019 Release - Remediation

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Shelly, requesting approval to move forward with remediation. Previously disturbed area just off pad. Can you clear us?

Christian

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From: Llull, Christian
Sent: Tuesday, May 9, 2023 2:28:22 PM
To: Taylor, Shelly J <sjtaylor@blm.gov>
Cc: Poole, Nicholas <NICHOLAS.POOLE@tetrattech.com>
Subject: Lusk Deep Unit A #019 Release - Remediation

Shelly:

Requesting clearance for soil remediation at the legacy site: Lusk Deep Unit A #019 Release in Lea County, New Mexico. A kmz indicating the proposed remedial action area is attached.

Lusk Deep Unit A #019 Release
N-17-19S-32E
Lea County, NM
INCIDENT ID Nkl1631349572
Approximate Release Point 32.655021^o, -103.791603^o
Landowner: BLM
DOR: October 29, 2016

A Release Characterization and Remediation Work Plan (Work Plan) was submitted by Tetra Tech to NMOCD on behalf of Concho on June 8, 2017.

NMOCD approved the Work Plan via email dated June 28, 2017.

NMOCD rejected a Closure Request via email dated November 8, 2017.

An extension was granted via email from Brittany Hall dated April 28, 2023:

*"Your request for an extension for **nKL1631349572** is approved. The new due date is July 10, 2023. This will be the final extension for this release."*

Summary of the Remediation Work:

- This is an ACO list project.
- Low karst area.
- Based on the Work Plan, the release extent is proposed to be excavated to a maximum 4 feet bgs and a 20-mil liner installed at the base of the excavation.
- As this release occurred in an area of a former reserve pit, and based on recent sampling data collected and current conditions, the entire release extent will be excavated to 4 feet bgs. A 20-mil liner will be placed at the bottom of the entirety of the excavation.
- The estimated volume of material to be excavated is 800 cubic yards.

Please let me know if you need further information in your review.

Christian

Christian Llull, P.G. | Program Manager
Direct +1 (512) 338-2861 | Business +1 (512) 338-1667 | Fax +1 (512) 338-1331 | christian.llull@tetrattech.com

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8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | tetrattech.com

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Poole, Nicholas

From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Sent: Friday, April 28, 2023 10:51 AM
To: Poole, Nicholas
Cc: Llull, Christian
Subject: RE: [EXTERNAL] [EXTERNAL]The Oil Conservation Division (OCD) has rejected the application, Application ID: 157492

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Mr. Poole,
Your request for an extension for **nKL1631349572** is approved. The new due date is July 10, 2023. This will be the final extension for this release.

Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,
Brittany Hall • Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.517.5333 | Brittany.Hall@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Poole, Nicholas <NICHOLAS.POOLE@tetrattech.com>
Sent: Friday, April 28, 2023 9:35 AM
To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Cc: Llull, Christian <Christian.Llull@tetrattech.com>
Subject: [EXTERNAL] [EXTERNAL]The Oil Conservation Division (OCD) has rejected the application, Application ID: 157492

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Ms. Hall:

On behalf of ConocoPhillips, Tetra Tech is requesting an additional 90-day extension (until July 10, 2023) to complete remedial activities and the ensuing closure reporting for the Lusk Deep Unit A #019 site (**nKL1631349572**). COP has investigated the area within the inferred release pit, and no liner was encountered. The original Remediation WP for the release was approved on June 28, 2017.

The rejection below pertained to a closure report, that proposed no excavation onsite.
An initial extension for the incident was approved Monday, January 9, 2023.

ConocoPhillips plans to begin the remediation in the coming month, and once the confirmation sampling data is collected, tabulated, and evaluated, and the requested closure report will be submitted to the OCD.
Please let me know if you have any questions or concerns.

Nicholas Poole | Project Scientist
Mobile +1 (512) 560-9064 | nicholas.poole@tetrattech.com

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From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Sent: Monday, January 09, 2023 8:06 AM
To: Lull, Christian <Christian.Llull@tetrattech.com>
Cc: Abbott, Sam <Sam.Abbott@tetrattech.com>
Subject: RE: [EXTERNAL] RE: [EXTERNAL]The Oil Conservation Division (OCD) has rejected the application, Application ID: 157492

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Mr. Lull,
OCD approves the extension request for nKL1631349572 to April 10, 2023.

Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Brittany Hall • Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.517.5333 | Brittany.Hall@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Lull, Christian <Christian.Llull@tetrattech.com>
Sent: Friday, January 6, 2023 2:01 PM
To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Cc: Abbott, Sam <Sam.Abbott@tetrattech.com>
Subject: [EXTERNAL] RE: [EXTERNAL]The Oil Conservation Division (OCD) has rejected the application, Application ID: 157492

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Ms. Hall:

Tetra Tech, on behalf of ConocoPhillips, plans to conduct additional work at this incident site, based on the initial data collected in the assessment phase of the project.

Based on the rejection, a Closure Report is due for the above release on January 10, 2023. This schedule is not currently practical given available resources.

Tetra Tech is requesting a three-month extension until April 10, 2023 in order to complete additional work/remediation at the incident site.

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Wednesday, November 9, 2022 4:00 PM

To: Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>

Subject: [EXTERNAL]The Oil Conservation Division (OCD) has rejected the application, Application ID: 157492

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.

To whom it may concern (c/o Charles Beauvais for COG OPERATING LLC),

The OCD has rejected the submitted *Internal Manual Incident File Supporting Documentation (ENV)* (IM-BNF), for incident ID (n#) nKL1631349572, for the following reasons:

- **The upper 4 feet of the impacted area does not meet the requirements of 19.15.29.13 NMAC.**
- **In Appendix D, in the Surface Use and Operating Plan, it states that the reserve pit is lined. Please provide any information if any liner material was found during investigation activities.**
- **Please submit a closure report through the OCD Permitting website by 1/10/2023.**

The rejected IM-BNF can be found in the OCD Online: Permitting - Action Status, under the Application ID: 157492.

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 IM-BNF.

Thank you,
Brittany Hall
Projects Environmental Specialist - A
505-517-5333
Brittany.Hall@emnrd.nm.gov

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

Poole, Nicholas

From: Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>
Sent: Wednesday, November 9, 2022 5:14 PM
To: Llull, Christian; Abbott, Sam
Subject: FW: [EXTERNAL]The Oil Conservation Division (OCD) has rejected the application, Application ID: 157492

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Rejection

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, November 9, 2022 4:00 PM
To: Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>
Subject: [EXTERNAL]The Oil Conservation Division (OCD) has rejected the application, Application ID: 157492

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.

To whom it may concern (c/o Charles Beauvais for COG OPERATING LLC),

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- **The upper 4 feet of the impacted area does not meet the requirements of 19.15.29.13 NMAC.**
- **In Appendix D, in the Surface Use and Operating Plan, it states that the reserve pit is lined. Please provide any information if any liner material was found during investigation activities.**
- **Please submit a closure report through the OCD Permitting website by 1/10/2023.**

The rejected IM-BNF can be found in the OCD Online: Permitting - Action Status, under the Application ID: 157492.

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 IM-BNF.

Thank you,
Brittany Hall
Projects Environmental Specialist - A
505-517-5333
Brittany.Hall@emnrd.nm.gov

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

Poole, Nicholas

From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Sent: Thursday, June 8, 2023 10:35 AM
To: Poole, Nicholas; Enviro, OCD, EMNRD
Cc: Llull, Christian
Subject: RE: [EXTERNAL] Incident ID: Nkl1631349572- Confirmation Sampling

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Mr. Poole,
Thank you for the notification.

Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,
Brittany Hall • Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.517.5333 | Brittany.Hall@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd/>

From: Poole, Nicholas <NICHOLAS.POOLE@tetrattech.com>
Sent: Wednesday, June 7, 2023 3:43 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Llull, Christian <Christian.Llull@tetrattech.com>
Subject: [EXTERNAL] Incident ID: Nkl1631349572- Confirmation Sampling

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Incident ID (n#) **Nkl1631349572** (Lusk Deep Unit A #019)

To whom it may concern,

In accordance with Subsection D of 19.15.29.12 NMAC, the responsible party must verbally notify the appropriate division district office prior to conducting confirmation sampling.

Remediation activities of the release will begin Tuesday, June 13, 2023.

Thus, on behalf of ConocoPhillips for the above referenced incident, Tetra Tech is duly providing this communication which serves as notification that final confirmation sampling of the release will be begin at this site Wednesday, June 14, 2023.

NOTE: If you have any questions regarding this sampling schedule, please contact me.

Nicholas Poole | Staff Geoscientist
Mobile +1 (512) 560-9064 | nicholas.poole@tetrattech.com

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Poole, Nicholas

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Wednesday, June 7, 2023 4:59 PM
To: Poole, Nicholas
Cc: Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD
Subject: RE: [EXTERNAL] Incident ID: Nkl1631349572- Confirmation Sampling

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Nicholas,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
<http://www.emnrd.nm.gov>



From: Poole, Nicholas <NICHOLAS.POOLE@tetrattech.com>
Sent: Wednesday, June 7, 2023 3:43 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Llull, Christian <Christian.Llull@tetrattech.com>
Subject: [EXTERNAL] Incident ID: Nkl1631349572- Confirmation Sampling

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Incident ID (n#) **Nkl1631349572** (Lusk Deep Unit A #019)

To whom it may concern,

In accordance with Subsection D of 19.15.29.12 NMAC, the responsible party must verbally notify the appropriate division district office prior to conducting confirmation sampling.

Remediation activities of the release will begin Tuesday, June 13, 2023.

Thus, on behalf of ConocoPhillips for the above referenced incident, Tetra Tech is duly providing this communication which serves as notification that final confirmation sampling of the release will be begin at this site Wednesday, June 14, 2023.

NOTE: If you have any questions regarding this sampling schedule, please contact me.

Nicholas Poole | Staff Geoscientist
Mobile +1 (512) 560-9064 | nicholas.poole@tetrattech.com

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APPENDIX D

Laboratory Analytical Data



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

June 16, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: LUSK DEEP UNIT A19

Enclosed are the results of analyses for samples received by the laboratory on 06/15/23 16:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/15/2023	Sampling Date:	06/15/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	LUSK DEEP UNIT A19	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02981	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: NSW - 1 (H233099-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2023	ND	2.15	108	2.00	7.67	
Toluene*	<0.050	0.050	06/16/2023	ND	1.99	99.7	2.00	6.78	
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.93	96.6	2.00	7.52	
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.75	95.9	6.00	7.05	
Total BTX	<0.300	0.300	06/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/16/2023	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	06/16/2023	ND	162	80.9	200	1.06	QM-07, QR-03
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	157	78.3	200	3.96	QR-03
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/15/2023	Sampling Date:	06/15/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	LUSK DEEP UNIT A19	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02981	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: NSW - 2 (H233099-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/16/2023	ND	2.15	108	2.00	7.67		
Toluene*	<0.050	0.050	06/16/2023	ND	1.99	99.7	2.00	6.78		
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.93	96.6	2.00	7.52		
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.75	95.9	6.00	7.05		
Total BTEx	<0.300	0.300	06/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/16/2023	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	06/16/2023	ND	162	80.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	157	78.3	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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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:	06/15/2023	Sampling Date:	06/15/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	LUSK DEEP UNIT A19	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02981	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: NSW - 3 (H233099-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/16/2023	ND	2.15	108	2.00	7.67		
Toluene*	<0.050	0.050	06/16/2023	ND	1.99	99.7	2.00	6.78		
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.93	96.6	2.00	7.52		
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.75	95.9	6.00	7.05		
Total BTEx	<0.300	0.300	06/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	06/16/2023	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	06/16/2023	ND	162	80.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	157	78.3	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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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:	06/15/2023	Sampling Date:	06/15/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	LUSK DEEP UNIT A19	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02981	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: NSW - 4 (H233099-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/16/2023	ND	2.15	108	2.00	7.67		
Toluene*	<0.050	0.050	06/16/2023	ND	1.99	99.7	2.00	6.78		
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.93	96.6	2.00	7.52		
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.75	95.9	6.00	7.05		
Total BTEX	<0.300	0.300	06/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	06/16/2023	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	06/16/2023	ND	162	80.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	157	78.3	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.5 % 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:	06/15/2023	Sampling Date:	06/15/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	LUSK DEEP UNIT A19	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02981	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: NSW - 5 (H233099-05)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/16/2023	ND	2.15	108	2.00	7.67		
Toluene*	<0.050	0.050	06/16/2023	ND	1.99	99.7	2.00	6.78		
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.93	96.6	2.00	7.52		
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.75	95.9	6.00	7.05		
Total BTX	<0.300	0.300	06/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/16/2023	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	06/16/2023	ND	162	80.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	157	78.3	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 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:	06/15/2023	Sampling Date:	06/15/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	LUSK DEEP UNIT A19	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02981	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: NSW - 6 (H233099-06)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/16/2023	ND	2.15	108	2.00	7.67		
Toluene*	<0.050	0.050	06/16/2023	ND	1.99	99.7	2.00	6.78		
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.93	96.6	2.00	7.52		
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.75	95.9	6.00	7.05		
Total BTEX	<0.300	0.300	06/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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	06/16/2023	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	06/16/2023	ND	162	80.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	157	78.3	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 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:	06/15/2023	Sampling Date:	06/15/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	LUSK DEEP UNIT A19	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02981	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: ESW - 1 (H233099-07)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/16/2023	ND	2.15	108	2.00	7.67		
Toluene*	<0.050	0.050	06/16/2023	ND	1.99	99.7	2.00	6.78		
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.93	96.6	2.00	7.52		
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.75	95.9	6.00	7.05		
Total BTEx	<0.300	0.300	06/16/2023	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	160	16.0	06/16/2023	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	06/16/2023	ND	162	80.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	157	78.3	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 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:	06/15/2023	Sampling Date:	06/15/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	LUSK DEEP UNIT A19	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02981	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: ESW - 2 (H233099-08)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/16/2023	ND	2.15	108	2.00	7.67		
Toluene*	<0.050	0.050	06/16/2023	ND	1.99	99.7	2.00	6.78		
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.93	96.6	2.00	7.52		
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.75	95.9	6.00	7.05		
Total BTEX	<0.300	0.300	06/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	06/16/2023	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	06/16/2023	ND	162	80.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	157	78.3	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 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:	06/15/2023	Sampling Date:	06/15/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	LUSK DEEP UNIT A19	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02981	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: ESW - 3 (H233099-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/16/2023	ND	2.15	108	2.00	7.67		
Toluene*	<0.050	0.050	06/16/2023	ND	1.99	99.7	2.00	6.78		
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.93	96.6	2.00	7.52		
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.75	95.9	6.00	7.05		
Total BTEx	<0.300	0.300	06/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	06/16/2023	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	06/16/2023	ND	162	80.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	157	78.3	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 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:	06/15/2023	Sampling Date:	06/15/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	LUSK DEEP UNIT A19	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02981	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: ESW - 4 (H233099-10)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2023	ND	2.15	108	2.00	7.67	
Toluene*	<0.050	0.050	06/16/2023	ND	1.99	99.7	2.00	6.78	
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.93	96.6	2.00	7.52	
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.75	95.9	6.00	7.05	
Total BTX	<0.300	0.300	06/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/16/2023	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	06/16/2023	ND	162	80.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	157	78.3	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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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:	06/15/2023	Sampling Date:	06/15/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	LUSK DEEP UNIT A19	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02981	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: ESW - 5 (H233099-11)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2023	ND	2.15	108	2.00	7.67	
Toluene*	<0.050	0.050	06/16/2023	ND	1.99	99.7	2.00	6.78	
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.93	96.6	2.00	7.52	
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.75	95.9	6.00	7.05	
Total BTEx	<0.300	0.300	06/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	06/16/2023	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	06/16/2023	ND	162	80.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	157	78.3	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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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:	06/15/2023	Sampling Date:	06/15/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	LUSK DEEP UNIT A19	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02981	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: ESW - 6 (H233099-12)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/16/2023	ND	2.15	108	2.00	7.67		
Toluene*	<0.050	0.050	06/16/2023	ND	1.99	99.7	2.00	6.78		
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.93	96.6	2.00	7.52		
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.75	95.9	6.00	7.05		
Total BTEx	<0.300	0.300	06/16/2023	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	32.0	16.0	06/16/2023	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	06/16/2023	ND	162	80.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	157	78.3	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 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:	06/15/2023	Sampling Date:	06/15/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	LUSK DEEP UNIT A19	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02981	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: SSW - 1 (H233099-13)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/16/2023	ND	2.15	108	2.00	7.67		
Toluene*	<0.050	0.050	06/16/2023	ND	1.99	99.7	2.00	6.78		
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.93	96.6	2.00	7.52		
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.75	95.9	6.00	7.05		
Total BTEx	<0.300	0.300	06/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	48.0	16.0	06/16/2023	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	06/16/2023	ND	162	80.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	157	78.3	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 75.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.7 % 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:	06/15/2023	Sampling Date:	06/15/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	LUSK DEEP UNIT A19	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02981	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: SSW - 2 (H233099-14)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/16/2023	ND	2.15	108	2.00	7.67		
Toluene*	<0.050	0.050	06/16/2023	ND	1.99	99.7	2.00	6.78		
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.93	96.6	2.00	7.52		
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.75	95.9	6.00	7.05		
Total BTX	<0.300	0.300	06/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/16/2023	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	06/16/2023	ND	162	80.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	157	78.3	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 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:	06/15/2023	Sampling Date:	06/15/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	LUSK DEEP UNIT A19	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02981	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: SSW - 3 (H233099-15)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/16/2023	ND	2.15	108	2.00	7.67		
Toluene*	<0.050	0.050	06/16/2023	ND	1.99	99.7	2.00	6.78		
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.93	96.6	2.00	7.52		
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.75	95.9	6.00	7.05		
Total BTX	<0.300	0.300	06/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/16/2023	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	06/16/2023	ND	162	80.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	157	78.3	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 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:	06/15/2023	Sampling Date:	06/15/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	LUSK DEEP UNIT A19	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02981	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: SSW - 4 (H233099-16)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/16/2023	ND	2.15	108	2.00	7.67		
Toluene*	<0.050	0.050	06/16/2023	ND	1.99	99.7	2.00	6.78		
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.93	96.6	2.00	7.52		
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.75	95.9	6.00	7.05		
Total BTEX	<0.300	0.300	06/16/2023	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	240	16.0	06/16/2023	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	06/16/2023	ND	162	80.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	157	78.3	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 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:	06/15/2023	Sampling Date:	06/15/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	LUSK DEEP UNIT A19	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02981	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: SSW - 5 (H233099-17)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/16/2023	ND	2.15	108	2.00	7.67		
Toluene*	<0.050	0.050	06/16/2023	ND	1.99	99.7	2.00	6.78		
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	1.93	96.6	2.00	7.52		
Total Xylenes*	<0.150	0.150	06/16/2023	ND	5.75	95.9	6.00	7.05		
Total BTEX	<0.300	0.300	06/16/2023	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	48.0	16.0	06/16/2023	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	06/16/2023	ND	162	80.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	157	78.3	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 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:	06/15/2023	Sampling Date:	06/15/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	LUSK DEEP UNIT A19	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02981	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: WSW - 1 (H233099-18)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/16/2023	ND	2.14	107	2.00	0.936		
Toluene*	<0.050	0.050	06/16/2023	ND	2.13	107	2.00	0.353		
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	2.19	109	2.00	0.345		
Total Xylenes*	<0.150	0.150	06/16/2023	ND	6.49	108	6.00	0.803		
Total BTEx	<0.300	0.300	06/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/16/2023	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	06/16/2023	ND	162	80.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	157	78.3	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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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:	06/15/2023	Sampling Date:	06/15/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	LUSK DEEP UNIT A19	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02981	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: WSW - 2 (H233099-19)

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	06/16/2023	ND	2.14	107	2.00	0.936	
Toluene*	<0.050	0.050	06/16/2023	ND	2.13	107	2.00	0.353	
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	2.19	109	2.00	0.345	
Total Xylenes*	<0.150	0.150	06/16/2023	ND	6.49	108	6.00	0.803	
Total BTX	<0.300	0.300	06/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/16/2023	ND	400	100	400	7.69		

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	06/16/2023	ND	162	80.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	157	78.3	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 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:	06/15/2023	Sampling Date:	06/15/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	LUSK DEEP UNIT A19	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02981	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: WSW - 3 (H233099-20)

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	06/16/2023	ND	2.14	107	2.00	0.936	
Toluene*	<0.050	0.050	06/16/2023	ND	2.13	107	2.00	0.353	
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	2.19	109	2.00	0.345	
Total Xylenes*	<0.150	0.150	06/16/2023	ND	6.49	108	6.00	0.803	
Total BTX	<0.300	0.300	06/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	06/16/2023	ND	400	100	400	7.69		

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	06/16/2023	ND	162	80.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	157	78.3	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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:	06/15/2023	Sampling Date:	06/15/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	LUSK DEEP UNIT A19	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02981	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: WSW - 4 (H233099-21)

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	06/16/2023	ND	2.14	107	2.00	0.936	
Toluene*	<0.050	0.050	06/16/2023	ND	2.13	107	2.00	0.353	
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	2.19	109	2.00	0.345	
Total Xylenes*	<0.150	0.150	06/16/2023	ND	6.49	108	6.00	0.803	
Total BTEx	<0.300	0.300	06/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	06/16/2023	ND	400	100	400	7.69		

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	06/16/2023	ND	175	87.3	200	1.95	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	153	76.7	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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:	06/15/2023	Sampling Date:	06/15/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	LUSK DEEP UNIT A19	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02981	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

Sample ID: WSW - 5 (H233099-22)

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	06/16/2023	ND	2.14	107	2.00	0.936		
Toluene*	<0.050	0.050	06/16/2023	ND	2.13	107	2.00	0.353		
Ethylbenzene*	<0.050	0.050	06/16/2023	ND	2.19	109	2.00	0.345		
Total Xylenes*	<0.150	0.150	06/16/2023	ND	6.49	108	6.00	0.803		
Total BTEx	<0.300	0.300	06/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/16/2023	ND	400	100	400	7.69	

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	06/16/2023	ND	175	87.3	200	1.95	
DRO >C10-C28*	<10.0	10.0	06/16/2023	ND	153	76.7	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	06/16/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

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

Page 1 of 3

Company Name: Conoco Phillips		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Christian Luvell		Company: Petra Tech					
Address:		Attn: Christian Luvell					
City:	State:	Zip:	Address:				
Phone #:	Fax #:		City:	State:	Zip:		
Project #: 212C-MD-02981		Project Owner:					
Project Name: Lusk Deep Wint A #019		City:		State:	Zip:		
Project Location: Lee Co, NM		Phone #:					
Sample Name: Andrew Garcia		Fax #:					
FOR LAB USE ONLY							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS				
		GROUNDWATER	WASTEWATER				
		SOIL	OIL				
		SLUDGE	OTHER:				
		ACID/BASE:	ICE / COOL				
		OTHER:					
				DATE	TIME		
H233009	NSW-1	61	153m	0800	X	TPH	X
2	NSW-2	1	0815	X	X	BTEX	X
3	NSW-3	1	0830	X	X	Chloride 4500	X
4	NSW-4	1	0845	X	X		
5	NSW-5	1	0900	X	X		
6	NSW-6	1	0915	X	X		
7	ESW-1	1	0930	X	X		
8	ESW-2	1	0945	X	X		
9	ESW-3	1	1000	X	X		
10	ESW-4	1	1015	X	X		

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Relinquished By: Andrew Garcia	Date: 15 Jun 23	Received By: Christian Luvell	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 1625			All Results are emailed. Please provide Email address:	
Relinquished By: Andrew Garcia	Date: 1625	Received By: Christian Luvell		
Time:				

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)
<input checked="" type="checkbox"/> UPS <input type="checkbox"/> Bus <input type="checkbox"/> Other	4.4	<input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact	yo
Corrected Temp. °C	3.8	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Thermometer ID #113
Correction Factor -0.8°C
Standard **24 HR**
Bacteria (only) Sample Condition
☒ Cool ☐ Intact
☐ Yes ☐ No
☐ No ☐ No
Observed Temp. °C

REMARKS: **Christan. Luvell@petratech.com**
Nicholas. Poole@petratech.com
Lisbeth. Chavira@petratech.com

Turnaround Time: **24 HR**

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 3

Company Name: Conoco Phillips										BILL TO										ANALYSIS REQUEST									
Project Manager: Christian Llull										P.O. #:																			
Address:										Company: Fetra Tech																			
City:										Attn: Christian Llull																			
State:										Address:																			
Phone #:										City:																			
Fax #:										State:																			
Project #: 212C-MB-02981										Project Owner:																			
Project Name: Lusk Deep Unit A #019										City:																			
Project Location: Lea Co, NM										State:																			
Sample Name: Andres Garcia										Phone #:																			
FOR LAB USE ONLY										Fax #:																			
Lab I.D.										Sample I.D.																			
H233009										ESV-5																			
11										ESV-6																			
12										ESV-1																			
13										ESV-2																			
14										ESV-3																			
15										ESV-4																			
16										ESV-5																			
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2040

Company Name: Conoco Phillips		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Christen Lunn		Company: Tetra Tech					
Address:		Attn: Christen Lunn					
City:	State:	Zip:	Address:				
Phone #:	Fax #:	City:					
Project #: 212C-MD-02981	Project Owner:	State:	Zip:				
Project Location: Lee Co, NM	Phone #:						
Sampler Name: Andrew Garcia	Fax #:						

FOR LAB USE ONLY		MATRIX		PRESERV	SAMPLING																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BTEX	TPH	Chloride 4500							
H233099	21		61			X					X		15 Jun	1300	X	X	X							
22	WSW-4					X							15 Jun	1315	X									
23	WSW-5																							

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Relinquished By: Andrew Garcia	Date: 6-15-23	Received By: Christen Lunn	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address:	
REMARKS: Christen Lunn @ Tetra Tech com				
Nicholas Poole @ Tetra Tech com				
Liberty Chavira @ Tetra Tech com				

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard	Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	90	Thermometer ID #113	Rush	Cool <input type="checkbox"/> Intact <input type="checkbox"/>	Observed Temp. °C
		<input type="checkbox"/> Yes <input type="checkbox"/> No		Correction Factor -0.5°C		<input type="checkbox"/> Yes <input type="checkbox"/> No	Corrected Temp. °C

APPENDIX E

Waste Manifests



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW GARCIA
AFE #:
PO #:
Manifest #: 01
Manif. Date: 6/14/2023
Hauler: MCNABB PARTNERS LLC
Driver: ACIE
Truck #: M83
Card #
Job Ref #

Ticket #: 700-1440454
Bid #: O6UJ9A000JEC
Date: 6/14/2023
Generator: CONOCOPHILLIPS
Generator #: 40946
Well Ser. #: 35244L
Well Name: LUSK DEEP UNIT A
Well #: 019
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

A handwritten signature in black ink, appearing to be "Gritto", written over a horizontal line.

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW GARCIA
AFE #:
PO #:
Manifest #: 02
Manif. Date: 6/14/2023
Hauler: MCNABB PARTNERS
Driver: DANIEL
Truck #: 85
Card #
Job Ref #

Ticket #: 700-1440460
Bid #: O6UJ9A000JVW
Date: 6/14/2023
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #: 35244
Well Name: LUSK DEEP UNIT A
Well #: 019
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: IKE TAVAREZ
AFE #:
PO #:
Manifest #: 03
Manif. Date: 6/14/2023
Hauler: MCNABB PARTNERS
Driver: ACIE
Truck #: M83
Card #
Job Ref #

Ticket #: 700-1440477
Bid #: O6UJ9A000JEC
Date: 6/14/2023
Generator: CONOCOPHILLIPS
Generator #: 40946
Well Ser. #: 35244
Well Name: LUSK DEEP UNIT A
Well #: 019
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

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Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: IKE TAVAREZ
AFE #:
PO #:
Manifest #: 04
Manif. Date: 6/14/2023
Hauler: MCNABB PARTNERS
Driver: DANIEL
Truck #: M85
Card #
Job Ref #

Ticket #: 700-1440485
Bid #: O6UJ9A000JEC
Date: 6/14/2023
Generator: CONOCOPHILLIPS
Generator #: 40946
Well Ser. #: 35244
Well Name: LUSK DEEP UNIT A
Well #: 019
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: IKE TAVAREZ
AFE #:
PO #:
Manifest #: 05
Manif. Date: 6/14/2023
Hauler: MCNABB PARTNERS
Driver: ACIE
Truck #: M83
Card #
Job Ref #

Ticket #: 700-1440501
Bid #: O6UJ9A000JEC
Date: 6/14/2023
Generator: CONOCOPHILLIPS
Generator #: 40946
Well Ser. #: 35244
Well Name: LUSK DEEP UNIT A
Well #: 019
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

Generator Certification Statement of Waste Status

hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW GARCIA
AFE #:
PO #:
Manifest #: 06
Manif. Date: 6/14/2023
Hauler: MCNABB PARTNERS LLC
Driver: DANIEL
Truck #: 85
Card #
Job Ref #

Ticket #: 700-1440508
Bid #: O6UJ9A000JEC
Date: 6/14/2023
Generator: CONOCOPHILLIPS
Generator #: 40946
Well Ser. #: 35244
Well Name: LUSK DEEP UNIT A
Well #: 019
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

~~20.00~~ yards 18.00**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW GARCIA
AFE #:
PO #:
Manifest #: 07
Manif. Date: 6/14/2023
Hauler: MCNABB PARTNERS
Driver: ACEI
Truck #: M83
Card #
Job Ref #

Ticket #: 700-1440529
Bid #: O6UJ9A000JVW
Date: 6/14/2023
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #: 35244
Well Name: LUSK DEEP UNIT A
Well #: 019
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: IKE TAVAREZ
AFE #:
PO #:
Manifest #: 08
Manif. Date: 6/14/2023
Hauler: MCNABB PARTNERS
Driver: DANIEL
Truck #: M85
Card #
Job Ref #

Ticket #: 700-1440553
Bid #: O6UJ9A000JEC
Date: 6/14/2023
Generator: CONOCOPHILLIPS
Generator #: 40946
Well Ser. #: 35244
Well Name: LUSK DEEP UNIT A
Well #: 019
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW GARCIA
AFE #:
PO #:
Manifest #: 09
Manif. Date: 6/14/2023
Hauler: MCNABB PARTNERS
Driver: ACIE
Truck #: M83
Card #
Job Ref #

Ticket #: 700-1440563
Bid #: O6UJ9A000JVW
Date: 6/14/2023
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #: 35244
Well Name: LUSK DEEP UNIT A
Well #: 019
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

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Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW GARCIA
AFE #:
PO #:
Manifest #: 10
Manif. Date: 6/14/2023
Hauler: MCNABB PARTNERS
Driver: DANIEL
Truck #: M85
Card #
Job Ref #

Ticket #: 700-1440585
Bid #: O6UJ9A000JVW
Date: 6/14/2023
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #: 35244
Well Name: LUSK DEEP UNIT A
Well #: 019
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: IKE TAVAREZ
AFE #:
PO #:
Manifest #: 11
Manif. Date: 6/14/2023
Hauler: MCNABB PARTNERS
Driver: ACIE
Truck #: M83
Card #
Job Ref #

Ticket #: 700-1440594
Bid #: O6UJ9A000JEC
Date: 6/14/2023
Generator: CONOCOPHILLIPS
Generator #: 40946
Well Ser. #: 35244
Well Name: LUSK DEEP UNIT A
Well #: 019
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW GARCIA
AFE #:
PO #:
Manifest #: 12
Manif. Date: 6/15/2023
Hauler: MCNABB PARTNERS LLC
Driver: ACIE
Truck #: M83
Card #
Job Ref #

Ticket #: 700-1440809
Bid #: O6UJ9A000JEC
Date: 6/15/2023
Generator: CONOCOPHILLIPS
Generator #: 40946
Well Ser. #: 35244
Well Name: LUSK DEEP UNIT A
Well #: 019
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

A handwritten signature in black ink, appearing to be "G. M. T.", written over a horizontal line.

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: ANDREW GARCIA
 AFE #:
 PO #:
 Manifest #: 13
 Manif. Date: 6/15/2023
 Hauler: MCNABB PARTNERS
 Driver: ACIE
 Truck #: M83
 Card #
 Job Ref #

Ticket #: 700-1440843
 Bid #: O6UJ9A000JVW
 Date: 6/15/2023
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 35244
 Well Name: LUSK DEEP UNIT A
 Well #: 019
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

Generator Certification Statement of Waste Status

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: IKE TAVAREZ
AFE #:
PO #:
Manifest #: 14
Manif. Date: 6/15/2023
Hauler: MCNABB PARTNERS LLC
Driver: JESSIE
Truck #: M81
Card #
Job Ref #

Ticket #: 700-1440880
Bid #: O6UJ9A000JEC
Date: 6/15/2023
Generator: CONOCOPHILLIPS
Generator #: 40946
Well Ser. #: 35244
Well Name: LUSK DEEP UNIT A
Well #: 019
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

A handwritten signature in black ink, appearing to be "Ento", is written over a horizontal line.

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW GARCIA
AFE #:
PO #:
Manifest #: 15
Manif. Date: 6/15/2023
Hauler: MCNABB PARTNERS
Driver: ACIE
Truck #: M83
Card #
Job Ref #

Ticket #: 700-1440873
Bid #: O6UJ9A000JVW
Date: 6/15/2023
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #: 35244
Well Name: LUSK DEEP UNIT A
Well #: 019
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: IKE TAVAREZ
 AFE #:
 PO #:
 Manifest #: 16
 Manif. Date: 6/15/2023
 Hauler: MCNABB PARTNERS LLC
 Driver: VICTOR
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1440895
 Bid #: O6UJ9A000JEC
 Date: 6/15/2023
 Generator: CONOCOPHILLIPS
 Generator #: 40946
 Well Ser. #: 35244
 Well Name: LUSK DEEP UNIT A
 Well #: 019
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	16.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

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☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: IKE TAVAREZ
AFE #:
PO #:
Manifest #: 17
Manif. Date: 6/15/2023
Hauler: MCNABB PARTNERS
Driver: ACIE
Truck #: M83
Card #
Job Ref #

Ticket #: 700-1440913
Bid #: O6UJ9A000JEC
Date: 6/15/2023
Generator: CONOCOPHILLIPS
Generator #: 40946
Well Ser. #: 35244
Well Name: LUSK DEEP UNIT A
Well #: 019
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

Generator Certification Statement of Waste Status

hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: IKE TAVAREZ
AFE #:
PO #:
Manifest #: 18
Manif. Date: 6/15/2023
Hauler: MCNABB PARTNERS
Driver: ANDREW
Truck #: M81
Card #
Job Ref #

Ticket #: 700-1440930
Bid #: O6UJ9A000JEC
Date: 6/15/2023
Generator: CONOCOPHILLIPS
Generator #: 40946
Well Ser. #: 35244
Well Name: LUSK DEEP UNIT A
Well #: 019
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: IKE TAVAREZ
AFE #:
PO #:
Manifest #: 19
Manif. Date: 6/15/2023
Hauler: MCNABB PARTNERS LLC
Driver: VICTOR
Truck #: 16
Card #
Job Ref #

Ticket #: 700-1440969
Bid #: O6UJ9A000JEC
Date: 6/15/2023
Generator: CONOCOPHILLIPS
Generator #: 40946
Well Ser. #: 35244
Well Name: LUSK DEEP UNIT A
Well #: 019
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	16.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

A handwritten signature in black ink, appearing to be "Emt", is written over a horizontal line.

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW GARCIA
AFE #:
PO #:
Manifest #: 20
Manif. Date: 6/15/2023
Hauler: MCNABB PARTNERS LLC
Driver: ACIE
Truck #: M83
Card #
Job Ref #

Ticket #: 700-1440984
Bid #: O6UJ9A000JEC
Date: 6/15/2023
Generator: CONOCOPHILLIPS
Generator #: 40946
Well Ser. #: 35244
Well Name: LUSK DEEP UNIT A
Well #: 019
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: ANDREW GARCIA
 AFE #:
 PO #:
 Manifest #: 21
 Manif. Date: 6/15/2023
 Hauler: MCNABB PARTNERS
 Driver: JESSE
 Truck #: M81
 Card #
 Job Ref #

Ticket #: 700-1440993
 Bid #: O6UJ9A000JVV
 Date: 6/15/2023
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 35244
 Well Name: LUSK DEEP UNIT A
 Well #: 019
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

Generator Certification Statement of Waste Status

hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: IKE TAVARES
 AFE #:
 PO #:
 Manifest #: 22
 Manif. Date: 6/15/2023
 Hauler: MCNABB PARTNERS
 Driver: VICTOR
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1441004
 Bid #: O6UJ9A000JEC
 Date: 6/15/2023
 Generator: CONOCOPHILLIPS
 Generator #: 40946
 Well Ser. #: 35244
 Well Name: LUSK DEEP UNIT A
 Well #: 019
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	16.00 yards

Generator Certification Statement of Waste Status

hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW GARCIA
AFE #:
PO #:
Manifest #: 23
Manif. Date: 6/15/2023
Hauler: MCNABB PARTNERS LLC
Driver: ACIE
Truck #: M82
Card #
Job Ref #

Ticket #: 700-1441021
Bid #: O6UJ9A000JEC
Date: 6/15/2023
Generator: CONOCOPHILLIPS
Generator #: 40946
Well Ser. #: 35244
Well Name: LUSK DEEP UNIT A
Well #: 019
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: IKE TAVAREZ
AFE #:
PO #:
Manifest #: 25
Manif. Date: 6/16/2023
Hauler: MCNABB PARTNERS
Driver: JESSE
Truck #: M81
Card #
Job Ref #

Ticket #: 700-1441230
Bid #: O6UJ9A000JEC
Date: 6/16/2023
Generator: CONOCOPHILLIPS
Generator #: 40946
Well Ser. #: 35244
Well Name: LUSK DEEP UNIT A
Well #: 019
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Permian Basin

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW GARCIA
AFE #:
PO #:
Manifest #: 26
Manif. Date: 6/16/2023
Hauler: MCNABB PARTNERS
Driver: ACIE
Truck #: M83
Card #
Job Ref #

Ticket #: 700-1441251
Bid #: O6UJ9A000JVW
Date: 6/16/2023
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #: 35244
Well Name: LUSK DEEP UNIT A
Well #: 019
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW GARCIA
AFE #:
PO #:
Manifest #: 27
Manif. Date: 6/16/2023
Hauler: MCNABB PARTNERS
Driver: JESSE
Truck #: M81
Card #
Job Ref #

Ticket #: 700-1441269
Bid #: O6UJ9A000JVW
Date: 6/16/2023
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #: 35244
Well Name: LUSK DEEP UNIT A
Well #: 019
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: IKE TAVAREZ
AFE #:
PO #:
Manifest #: 28
Manif. Date: 6/16/2023
Hauler: MCNABB PARTNERS
Driver: ACIE
Truck #: M83
Card #
Job Ref #

Ticket #: 700-1441292
Bid #: O6UJ9A000JEC
Date: 6/16/2023
Generator: CONOCOPHILLIPS
Generator #: 40946
Well Ser. #: 35244
Well Name: LUSK DEEP UNIT A
Well #: 019
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

Generator Certification Statement of Waste Status

hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

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Driver/ Agent Signature	R360 Representative Signature
-------------------------	-------------------------------

Customer Approval

THIS IS NOT AN INVOICE

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: ANDREW GARCIA
AFE #:
PO #:
Manifest #: 29
Manif. Date: 6/16/2023
Hauler: MCNABB PARTNERS
Driver: JESSE
Truck #: M81
Card #
Job Ref #

Ticket #: 700-1441316
Bid #: O6UJ9A000JVW
Date: 6/16/2023
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #: 35244
Well Name: LUSK DEEP UNIT A
Well #: 019
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: IKE TAVAREZ
AFE #:
PO #:
Manifest #: 30
Manif. Date: 6/16/2023
Hauler: MCNABB PARTNERS
Driver: ACIE
Truck #: M83
Card #
Job Ref #

Ticket #: 700-1441344
Bid #: O6UJ9A000JEC
Date: 6/16/2023
Generator: CONOCOPHILLIPS
Generator #: 40946
Well Ser. #: 35244
Well Name: LUSK DEEP UNIT A
Well #: 019
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

Generator Certification Statement of Waste Status

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☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: IKE TAVAREZ
AFE #:
PO #:
Manifest #: 31
Manif. Date: 6/16/2023
Hauler: MCNABB PARTNERS
Driver: ANDREW
Truck #: M81
Card #
Job Ref #

Ticket #: 700-1441373
Bid #: O6UJ9A000JEC
Date: 6/16/2023
Generator: CONOCOPHILLIPS
Generator #: 40946
Well Ser. #: 35244
Well Name: LUSK DEEP UNIT A
Well #: 019
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

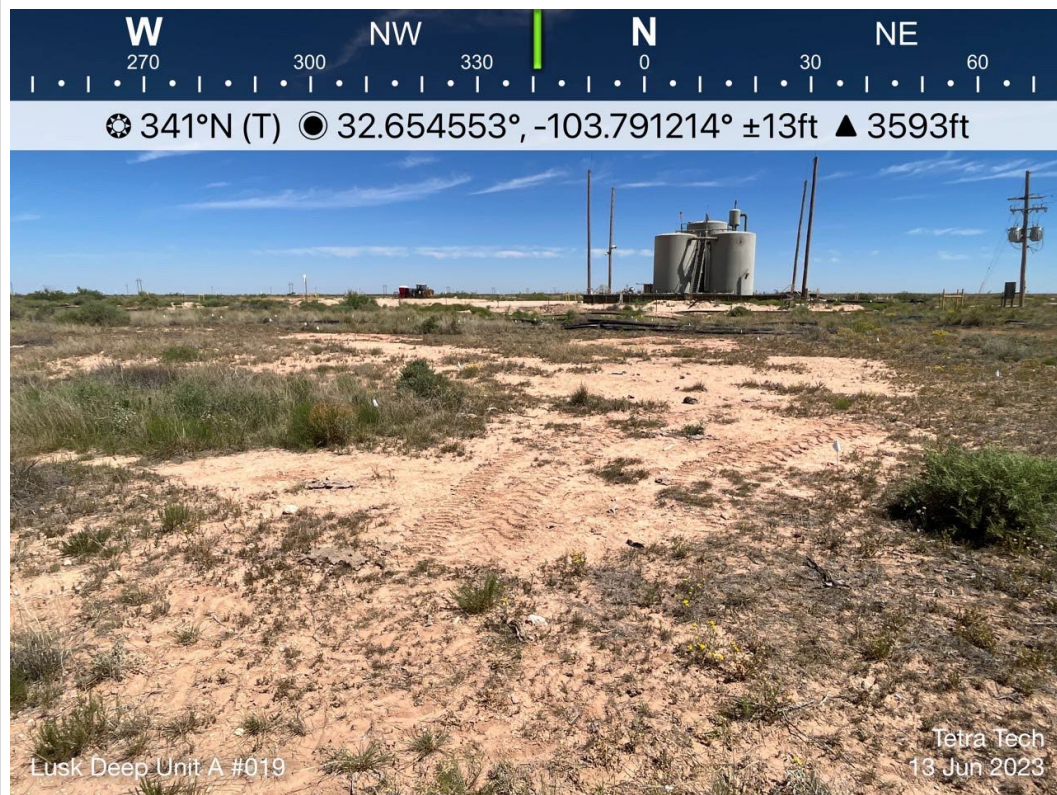
Date: _____

APPENDIX F

Photographic Documentation



TETRA TECH, INC. PROJECT NO. 212C-MD-02981	DESCRIPTION	Site Signage. Lusk Deep Unit A #19 and location information.	1
	SITE NAME	ConocoPhillips Lusk Deep Unit A #19	12/08/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02981	DESCRIPTION	View north northwest. Release extent and vegetated areas prior to remediation.	2
	SITE NAME	ConocoPhillips Lusk Deep Unit A #19	6/13/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02981	DESCRIPTION	View North. Excavated area 4-feet below ground surface.	3
	SITE NAME	ConocoPhillips Lusk Deep Unit A #19	6/16/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02981	DESCRIPTION	View south. Excavated area 4-feet below ground surface. Surface polylines.	4
	SITE NAME	ConocoPhillips Lusk Deep Unit A #19	6/16/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02981	DESCRIPTION	View north northwest. Excavated area 4-feet below ground surface.	5
	SITE NAME	ConocoPhillips Lusk Deep Unit A #19	6/16/2023



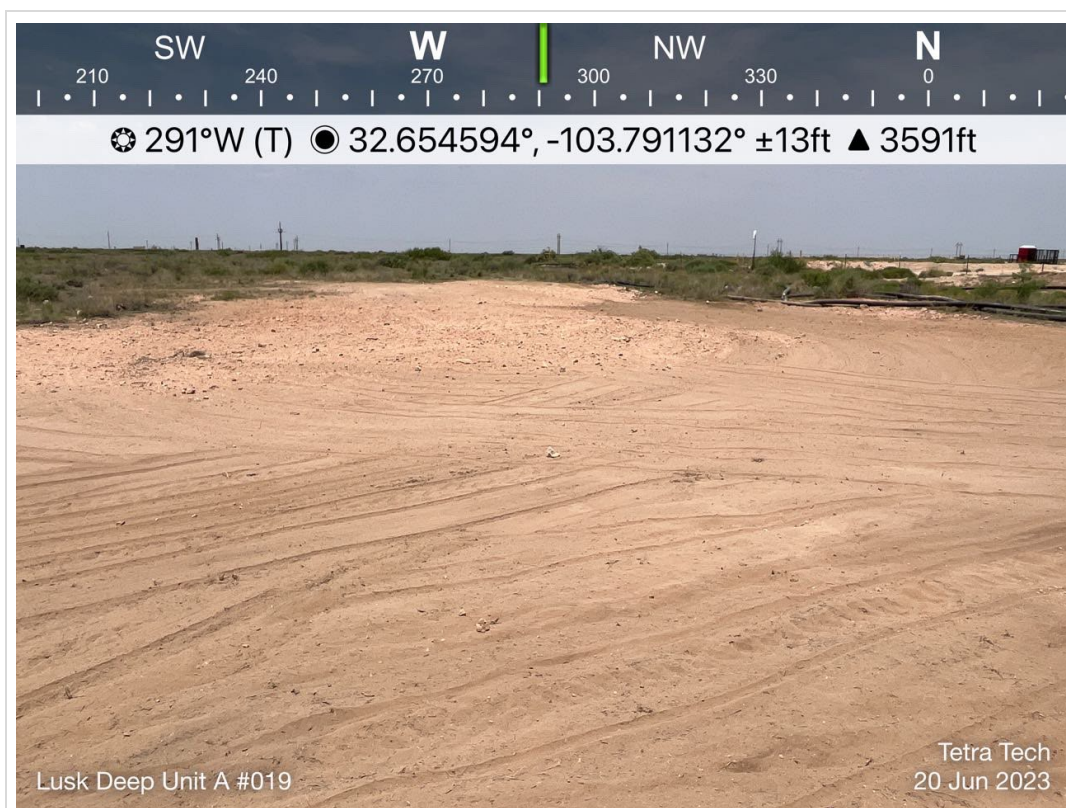
TETRA TECH, INC. PROJECT NO. 212C-MD-02981	DESCRIPTION	View northwest. 40-mil liner installed at base of 4-foot excavated area.	6
	SITE NAME	ConocoPhillips Lusk Deep Unit A #19	6/19/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02981	DESCRIPTION	View northeast. 40-mil liner installed at base of 4-foot excavated area. Surface polylines.	7
	SITE NAME	ConocoPhillips Lusk Deep Unit A #19	6/19/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02981	DESCRIPTION	View northeast. 40-mil liner installed at base of 4-foot excavated area with depth scale.	8
	SITE NAME	ConocoPhillips Lusk Deep Unit A #19	6/19/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02981	DESCRIPTION	View west northwest. Remediated area; backfilled and seeded.	9
	SITE NAME	ConocoPhillips Lusk Deep Unit A #19	6/20/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02981	DESCRIPTION	View south. Remediated area; backfilled and seeded.	10
	SITE NAME	ConocoPhillips Lusk Deep Unit A #19	6/20/2023

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
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 238104

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 238104
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	Closure approved. Site must meet the requirements of 19.15.29.13 NMAC.	7/14/2023