



April 28, 2022

District Supervisor  
Oil Conservation Division, District 1  
1625 N. French Dr.  
Hobbs, NM 88240

**RE: Closure Report  
ConocoPhillips  
MCA 470 Flowline Release  
Unit Letter H, Section 33, Township 17 South, Range 32 East  
Lea County, New Mexico  
Incident ID: NRM1935447155**

Dear Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to assess a release that occurred from a flowline associated with the Maljamar Cooperative Agreement (MCA) Unit #470 well (API #30-025-39765), within Public Land Survey System (PLSS) Unit Letter H, Section 33, Township 17 South, Range 32 East, in Lea County, New Mexico (Site). The release site coordinates are 32.793141°, -103.768660°. The Site location is shown on Figures 1 and 2.

## BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), on October 26, 2019, a flowline leak was discovered by a multi-skilled operator (MSO) and traced back to the MCA #470. Approximately 6 barrels (bbls) of crude oil were release, of which 0 bbls were recovered. Immediate action was taken by ConocoPhillips to stop the release and secure the area in order to prevent any further contamination to the environment or potential hazards to humans. The C-141 describes the affected area as off-pad, tracing the broken line back to the MCA #470 site. The New Mexico Oil Conservation Division (NMOCD) received the C-141 report form for the release on November 4, 2019, and subsequently assigned the Site incident Identification (ID) NRM1935447155.

## SITE CHARACTERIZATION

A site characterization was performed and no watercourses, lakebeds, sinkholes, playa lakes, residences schools, hospitals, institutions, churches, springs, private water wells, wetlands, incorporated municipal boundaries, subsurface mines or floodplains are located within the specified distances and the site is in an area of low karst potential.

According to the New Mexico Office of the State Engineers (NMOSE) database, there are four (4) water wells within ½ mile (800-meter) radius of the Site. The one well with available data was drilled in 2020 and has a depth to groundwater of 108 feet below ground surface (bgs). The site characterization is included in Appendix B.

**TETRA TECH**

901 West Wall St., Suite 100, Midland, TX 79701  
Tel 432.682.4559 Fax 432.682.3946 [www.tetrattech.com](http://www.tetrattech.com)

## REGULATORY FRAMEWORK

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

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

CONSTITUENT	RRAL
Chloride	20,000 mg/kg
TPH (GRO+DRO+MRO)	2,500 mg/kg
GRO+DRO	1,000 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

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

Constituent	Reclamation Requirements
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg

## INITIAL SITE ASSESSMENT AND SAMPLING RESULTS

Tetra Tech personnel conducted an initial soil assessment of the release area in November 2021. Seven (7) borings (AH-1 through AH-7) were installed to a total depth of 2 to 3 feet bgs to evaluate the vertical and horizontal extents of the release. A total of 15 samples were collected from the 7 boring locations on November 17, 2021 (Figure 3). The samples were submitted to Cardinal Laboratories for Testing & Innovation in Midland, Texas (Cardinal) for TPH, BTEX and chloride analysis.

Analytical data indicated elevated chloride concentrations at depths of two feet at AH-5 and elevated TPH levels in samples from AH-7. Analytical results associated with the interior borings (BH-1 and BH-4) did not exceed the delineation criteria for BTEX or TPH in the upper 2 ft. There were no detections of BTEX or TPH above their respective Site RRALs of 50 mg/kg and 2,500 mg/kg in any of the analyzed samples below 2 ft bgs. There were no results that exceeded the >4 ft bgs RRAL of 20,000 mg/kg for chlorides.

## ADDITIONAL SITE ASSESSMENT AND SAMPLING RESULTS

In order to more fully delineate the release area, Tetra Tech personnel conducted a subsurface investigation in December 2021. Three (3) borings (AH-5a, AH-7a, and AH-8) were installed using hand auger to a total depth of 2.5 feet bgs to evaluate the vertical and horizontal extents of the release. A total of 5 samples were collected from the 3 boring locations on December 1, 2021 (Figure 4). The samples were submitted to Cardinal for TPH, BTEX and chloride analysis.

Laboratory analytical results for samples from AH-5A and AH-8 were below reclamation requirement limits, according to 19.15.29 NMAC. Laboratory analytical results for samples from AH-7A exceeded reclamation requirement limits for chlorides and TPH. Horizontal delineation was achieved on the east side of the release extent by AH-8. Vertical delineation was not achieved through installation of AH-7A. There were no detections of BTEX or TPH above their respective Site RRALs of 50 mg/kg and 2,500 mg/kg in any of the additional samples that were analyzed. There were no results that exceeded the RRAL of 20,000 mg/kg for chlorides. Horizontal delineation was achieved at the release site.

Closure Report  
April 28, 2022

ConocoPhillips

## REMEDIATION WORK PLAN AND ALTERNATIVE CONFIRMATION SAMPLING PLAN

The Release Characterization Work Plan (Work Plan) was prepared by Tetra Tech on behalf of ConocoPhillips and submitted to NMOCD on January 11, 2022, with fee application payment PO Number GSN89-220111-C-1410. The Work Plan described the results of the release assessment and provided characterization of the impact at the site. The Work Plan was approved via email by Chad Hensley of the NMOCD via email on February 1, 2022. The Closure report was noted as due May 2, 2022. Mr. Hensley also executed page 5 of the C-141 form included with the Work Plan.

## REMEDIATION ACTIVITIES AND CONFIRMATION SAMPLING

From February 28 through March 2, 2022, ConocoPhillips personnel were onsite to excavate the release as proposed in the approved Work Plan, including excavation and disposal. Impacted soils were excavated from 1 to 4 feet bgs. Per the approved plan, the portion of the release extent that runs along buried lines were hand-dug to 4 feet bgs. Subcontractor personnel exercised caution while working around the energized lines in the release vicinity. All the excavated material was transported offsite for proper disposal. Approximately 172 cubic yards of material were transported to the R360 Halfway Facility in Hobbs, New Mexico. Copies of the waste manifests are included in Appendix C. Photographs from the excavated areas prior to backfill are provided in Appendix D.

Prior to confirmation sampling, in accordance with Subsection D of 19.15.29.12 NMAC, the NMOCD division district office was notified via email on March 3, 2022. Documentation of associated regulatory correspondence is included in Appendix E. On March 3, 2022, Tetra Tech personnel were onsite for confirmation sampling. Confirmation floor and sidewall samples were collected for laboratory analysis to verify that the impacted materials were properly removed. Each confirmation sample laboratory analytical result was directly compared to the proposed RRALs to demonstrate compliance.

Per the approved Alternative Confirmation Sampling Plan, confirmation samples were collected such that each discrete sample (sidewall and floor) were representative of no more than 500 square feet of excavated area. A total of five (5) floor sample locations and six (6) sidewall sample locations were collected during the remedial activities. Confirmation sidewall sample locations were labeled with "SW"-#, and confirmation floor sample locations were labeled with "FS"-#.

Analytical results associated with sample locations SW-1 and SW-2 exceeded the reclamation requirement for TPH, as such, additional excavation was conducted at those locations. On April 4, 2022, Tetra Tech personnel returned to site to collect iterative confirmation samples. Iterative confirmation samples were located to encompass the original sample location that triggered removal (nomenclature defined in table 2) post-additional excavation. Thus, a total of two (2) additional sidewall samples were collected following the excavation work, and final laboratory analysis results confirmed constituents were below the established RRALs and/or reclamation requirement. After sampling and analysis, all final confirmation soil samples (floor and sidewall) were below the respective RRALs and/or reclamation requirement for chloride, BTEX, and TPH. The results of the March and April 2022 confirmation sampling events are summarized in Table 2. Laboratory analytical data is included in Appendix F. Excavated areas, depths and confirmation sample locations are shown in Figure 4.

As prescribed in the Work Plan, the backfilled areas located in the pasture were seeded in April 2022 to aid in revegetation. Based on the soils at the site and the approved Work Plan, the NMSLO Sandy (S) 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 NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate.

Closure Report  
April 28, 2022

ConocoPhillips

## CONCLUSION

ConocoPhillips respectfully requests closure of the release based on the confirmation sampling results and remediation 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 Christian at (512)338-2861.

Sincerely,  
**Tetra Tech, Inc.**

A handwritten signature in blue ink, appearing to read 'Christian M. Llull'.

Christian M. Llull, P.G.  
Program Manager

cc:  
Mr. Rahul Kaushik – GPBU - ConocoPhillips



Closure Report  
April 28, 2022

ConocoPhillips

### **List of Attachments**

#### Figures:

- Figure 1 – Site Overview Map
- Figure 2 – Site Topographic Map
- Figure 3 – Approximate Release Extent and Assessment Map
- Figure 4 – Remediation Extent and Confirmation Sample Locations

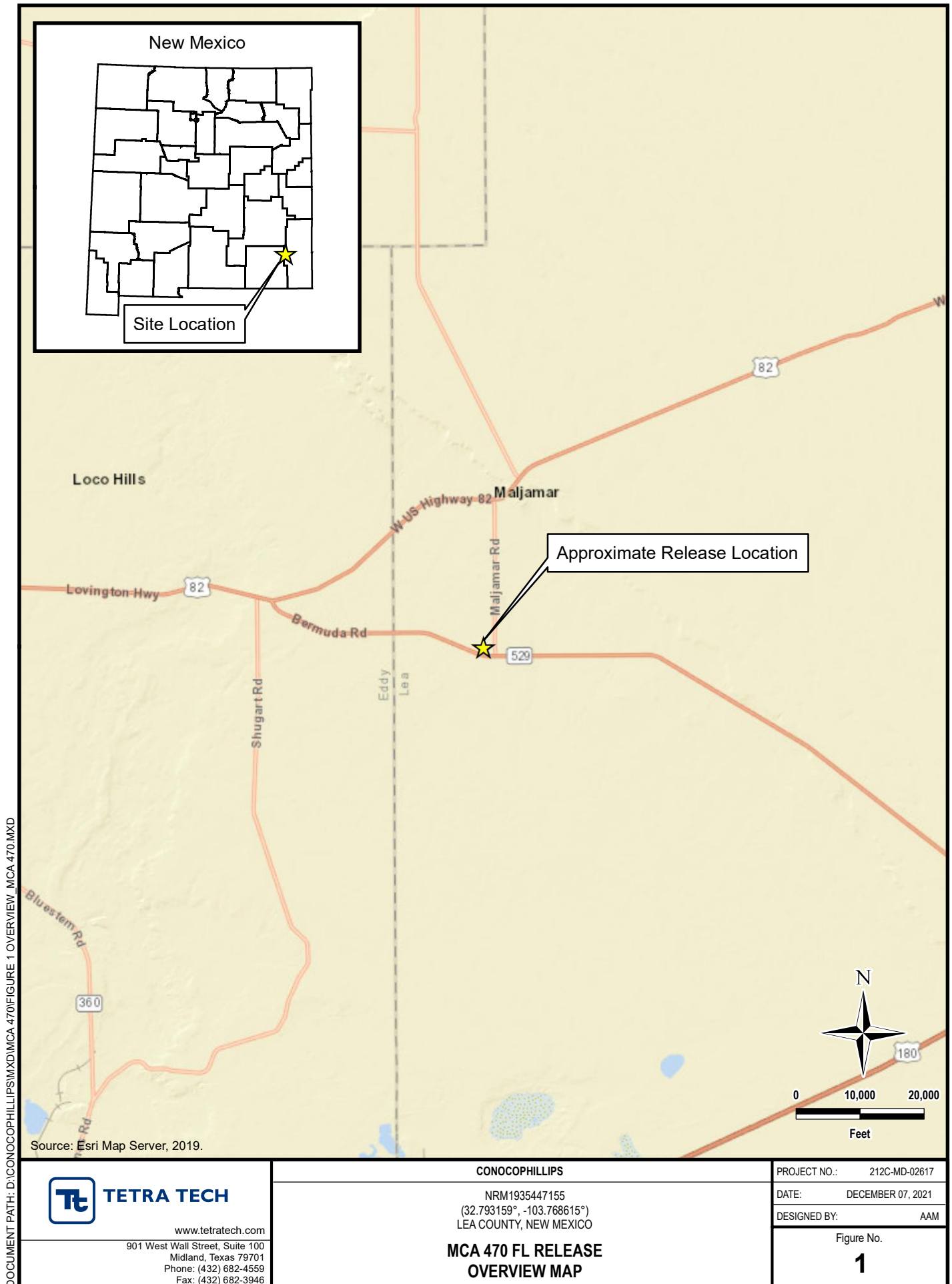
#### Tables:

- Table 1 – Summary of Analytical Results –Soil Assessment
- Table 2 – Summary of Analytical Results – Soil Remediation

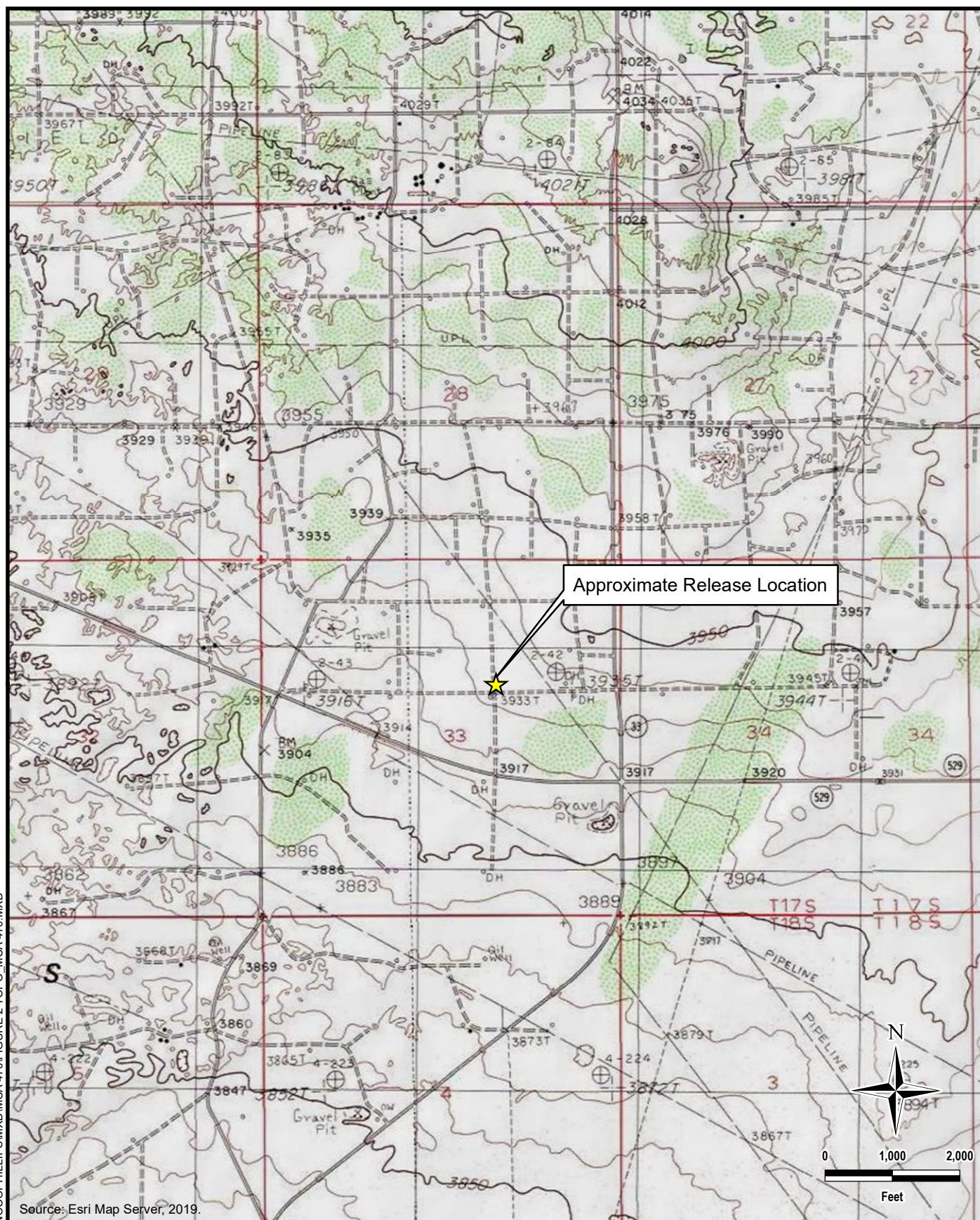
#### Appendices:

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

## **FIGURES**







**TETRA TECH**

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CONOCOPHILLIPS

NRM1935447155  
(32.793159°, -103.768615°)  
LEA COUNTY, NEW MEXICO

**MCA 470 FL RELEASE  
TOPOGRAPHIC MAP**

PROJECT NO.: 212C-MD-02617

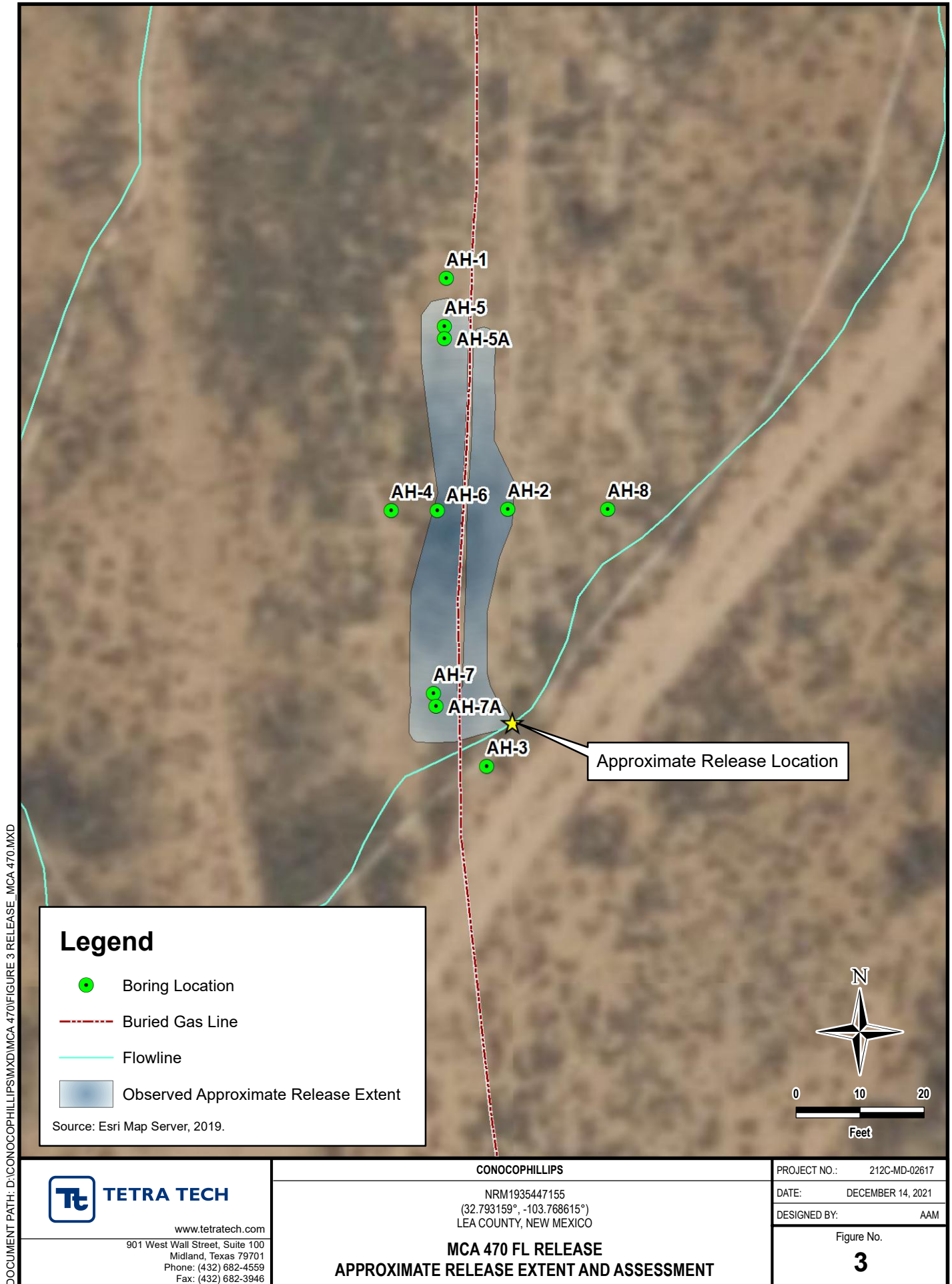
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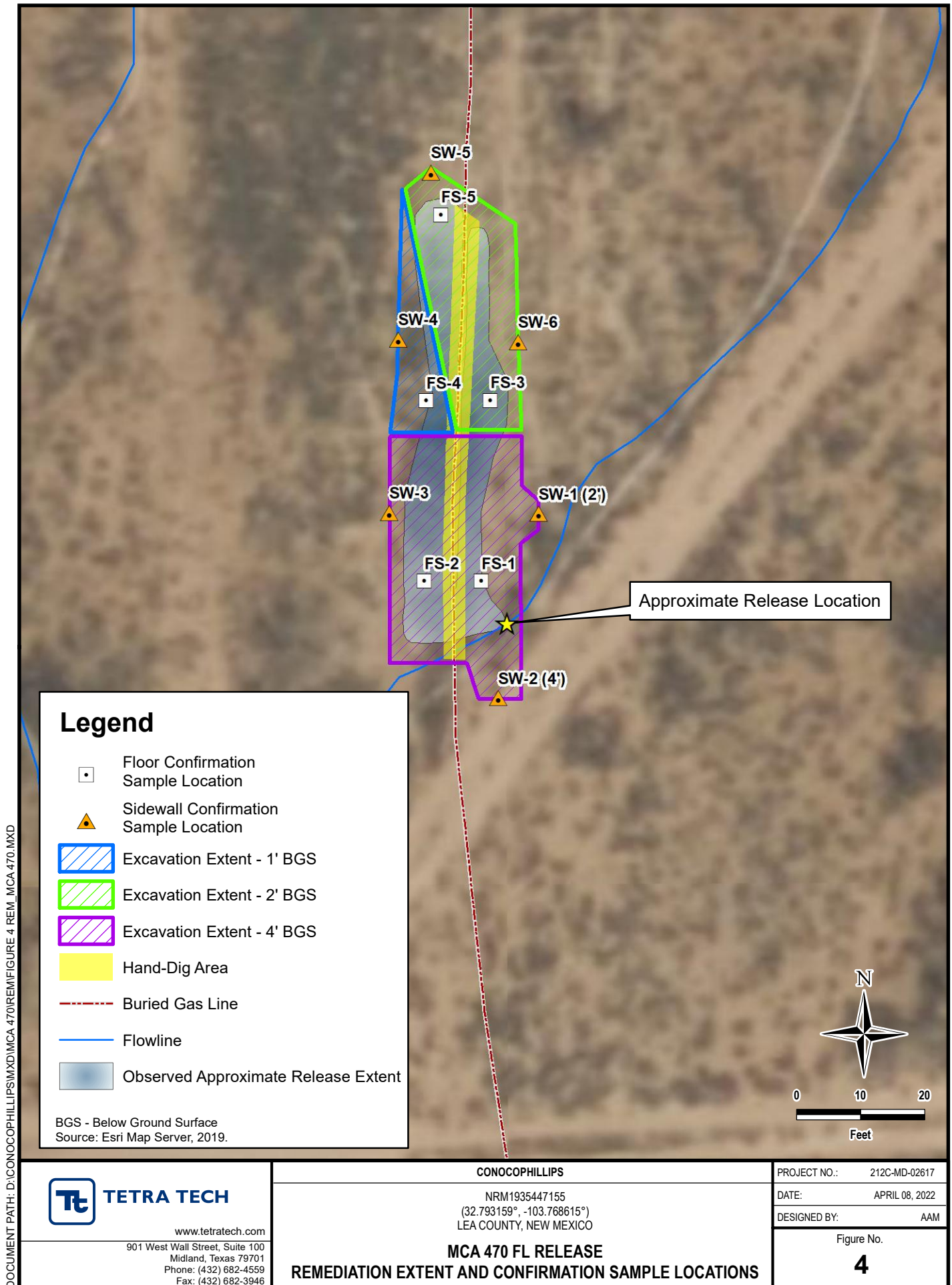
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Figure No.

**2**







## **TABLES**



TABLE 1  
SUMMARY OF ANALYTICAL RESULTS  
SOIL ASSESSMENT  
CONOCOPHILLIPS  
MCA 470 FLOWLINE RELEASE - NRM1935447155  
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results	Chloride <sup>1</sup>		BTEX <sup>2</sup>										TPH <sup>3</sup>							
			Chloride			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH	
		ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
AH-1	11/17/2021	0-1	128	160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		1-2	119	176		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-2	11/17/2021	0-1	461	1280		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		1-2	725	736		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		2-3	383	384		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-3	11/17/2021	0-1	35.1	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		1-2	36.8	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-4	11/17/2021	0-1	34.7	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		1-2	46.1	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-5	11/17/2021	0-1	70	4320		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		29.0		< 10.0		29.0	
		1-2	163	608		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-5A	12/1/2021	2-2.5	180	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-6	11/17/2021	0-1	1,080	2880	QM-07	< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		1-2	88.4	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-7	11/17/2021	0-1	801	1800		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		493		310		803	
		1-2	130	96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		311		209		520	
AH-7A	12/1/2021	2-2.5	795	976		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		377		424		801	
AH-8	12/1/2021	0-1	60.8	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		2-2.5	141	176		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

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

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

TABLE 2  
SUMMARY OF ANALYTICAL RESULTS  
SOIL REMEDIATION - NRM1935447155  
CONOCOPHILLIPS  
MCA 470 FLOWLINE RELEASE  
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride <sup>1</sup>		BTEX <sup>2</sup>										TPH <sup>3</sup>							
							Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
			C <sub>6</sub> - C <sub>10</sub>														> C <sub>10</sub> - C <sub>28</sub>		> C <sub>28</sub> - C <sub>36</sub>					
			ft. bgs	ppm			mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q
FS-1	3/3/2022	4			48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		225		272		497	
FS-2	3/3/2022	4			48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		736		644		1,380	
FS-3	3/3/2022	2			80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
FS-4	3/3/2022	2			64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
FS-5	3/3/2022	2			80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
SW-1	3/3/2022	-			160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		81.9		29.4		111	
SW-1 (2')*	4/4/2022	-			32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
SW-2	3/3/2022	-			16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		196		126		322	
SW-2 (4')*	4/4/2022	-			64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
SW-3	3/3/2022	-			< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
SW-4	3/3/2022	-			48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
SW-5	3/3/2022	-			80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
SW-6	3/3/2022	-			32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

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

Gold highlight represents soil horizons that were removed during deepening of excavation floors.

Green highlight represents soil intervals that were removed during horizontal expansion of excavation sidewalls.

\* These iterative samples are located to encompass the original sample location that triggered removal, with further excavation in each area indicated in ().

QUALIFIERS:

## **APPENDIX A**

### **C-141 Forms**

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

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

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

Incident ID	NRM1935447155
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

BA85N-191104-C-1410

Responsible Party	ConocoPhillips Company	OGRID	217817
Contact Name	Gustavo Fejervary	Contact Telephone	432/210-7037
Contact email	g.fejervary@cop.com	Incident # (assigned by OCD)	
Contact mailing address	5735 SW 7000 Andrews, TX 79714		

### Location of Release Source

Latitude 32.7932587 Longitude -103.7670975  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	MCA 470	Site Type	flow line leak
Date Release Discovered	10/26/19	API# (if applicable)	

Unit Letter	Section	Township	Range	County
H	33	17S	32E	Lea

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) <b>6</b>	Volume Recovered (bbls) <b>0</b>
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release **MSO was checking his weekend route and found a flowline leak in the field. The line was traced back to the MCA 470. The leak resulted in a 6 bbl oil spill**

Form C-141

Page 2

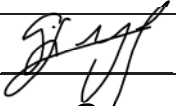
State of New Mexico  
Oil Conservation Division

Incident ID	NRM1935447155
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?  <b>LESS THAN 25 BBLS</b>  $((35' \times 25' \times 1.5') + (30' \times 30' \times 1.5')) \times 15.12\% \text{ (Effective porosity off pad)} = 5.97 \text{ bbls}$
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

**Initial Response**

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:  <b>Remediation process is ongoing.</b>	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Gustavo Fejervary</u> Signature: <u></u> email: <u>g.fejervary@cop.com</u>	Title: <u>Environmental Coordinator</u> Date: <u>11/4/19</u> Telephone: <u>432/210-7037</u>
<b><u>OCD Only</u></b>  Received by: <u>Ramona Marcus</u> Date: <u>12/19/2019</u>	

Incident ID	NRM1935447155
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>108</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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


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

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

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

Incident ID	NRM1935447155
District RP	
Facility ID	
Application ID	

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

Printed Name: Kelsy Waggaman Title: Environmental Engineer  
Signature:  Date: 1/10/22  
email: kelsy.waggaman@conocophillips.com Telephone: 5055779071

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_



Incident ID	NRM1935447155
District RP	
Facility ID	
Application ID	

## Remediation Plan


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

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

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

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

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

Printed Name: Kelsy Waggaman Title: Environmental Engineer  
Signature:  Date: 1/10/22  
email: kelsy.waggaman@conocophillips.com Telephone: 5055779071

**OCD Only**

Received by: Chad Hensley Date: 02/01/2022

☒ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature:  Date: 02/01/2022

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: *Rahel Kaurishiv* 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: *Jennifer Nobui* Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

## **APPENDIX B**

### **Site Characterization Data**



# 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
<a href="#">RA 12721 POD7</a>	RA	LE		1	3	2	33	17S	32E	615064	3629198	291	130		
<a href="#">RA 12721 POD6</a>	RA	LE		1	2	2	33	17S	32E	615530	3629431	466	130		
<a href="#">RA 12721 POD4</a>	RA	LE		1	1	2	33	17S	32E	615055	3629589	613	140		
<a href="#">RA 12721 POD8</a>	RA	LE		1	2	1	33	17S	32E	614640	3629463	790	130	108	22

Average Depth to Water: **108 feet**

Minimum Depth: **108 feet**

Maximum Depth: **108 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

**Easting (X):** 615298.95

**Northing (Y):** 3629026.34

**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.

11/16/21 11:21 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

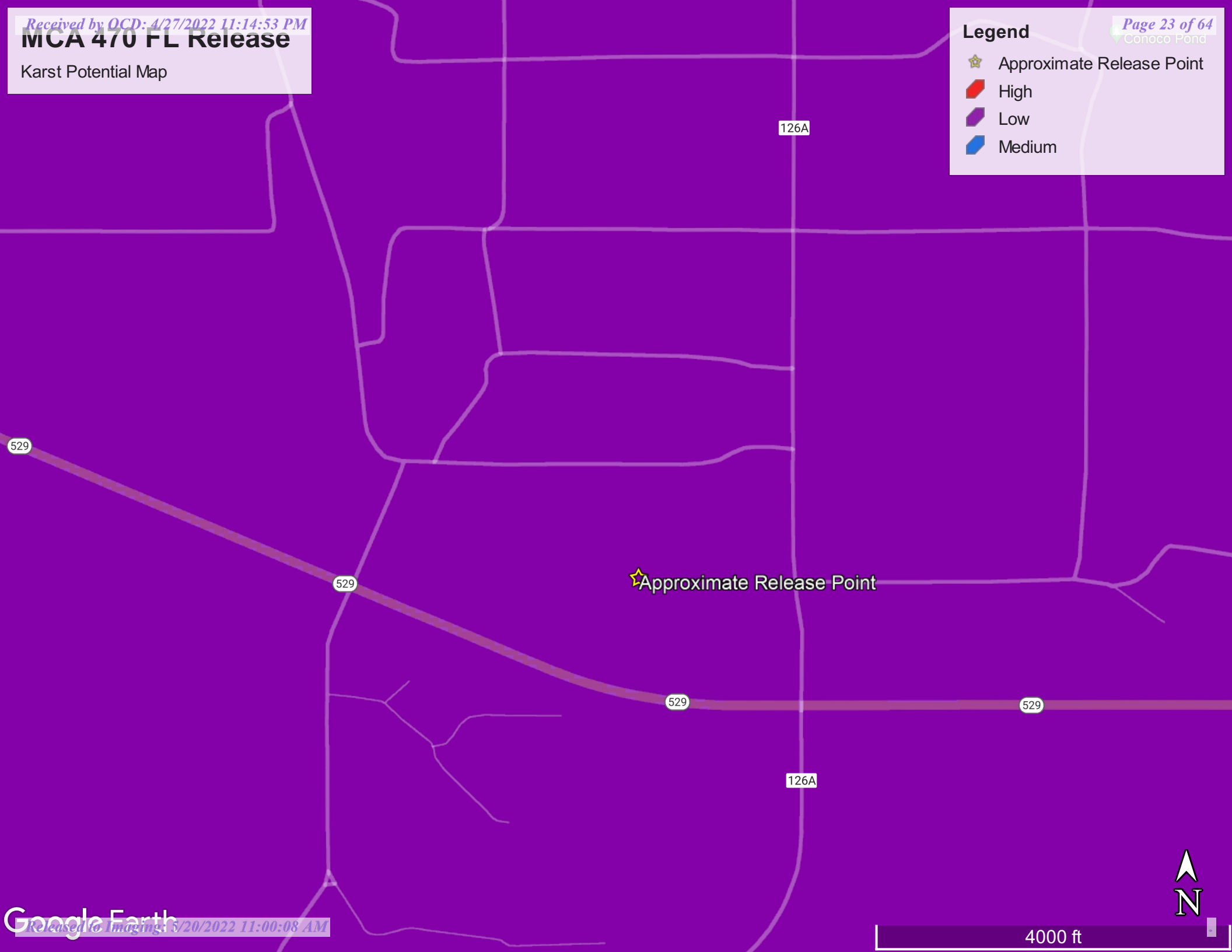
# MCA 470 FL Release

Karst Potential Map

Conoco Pond

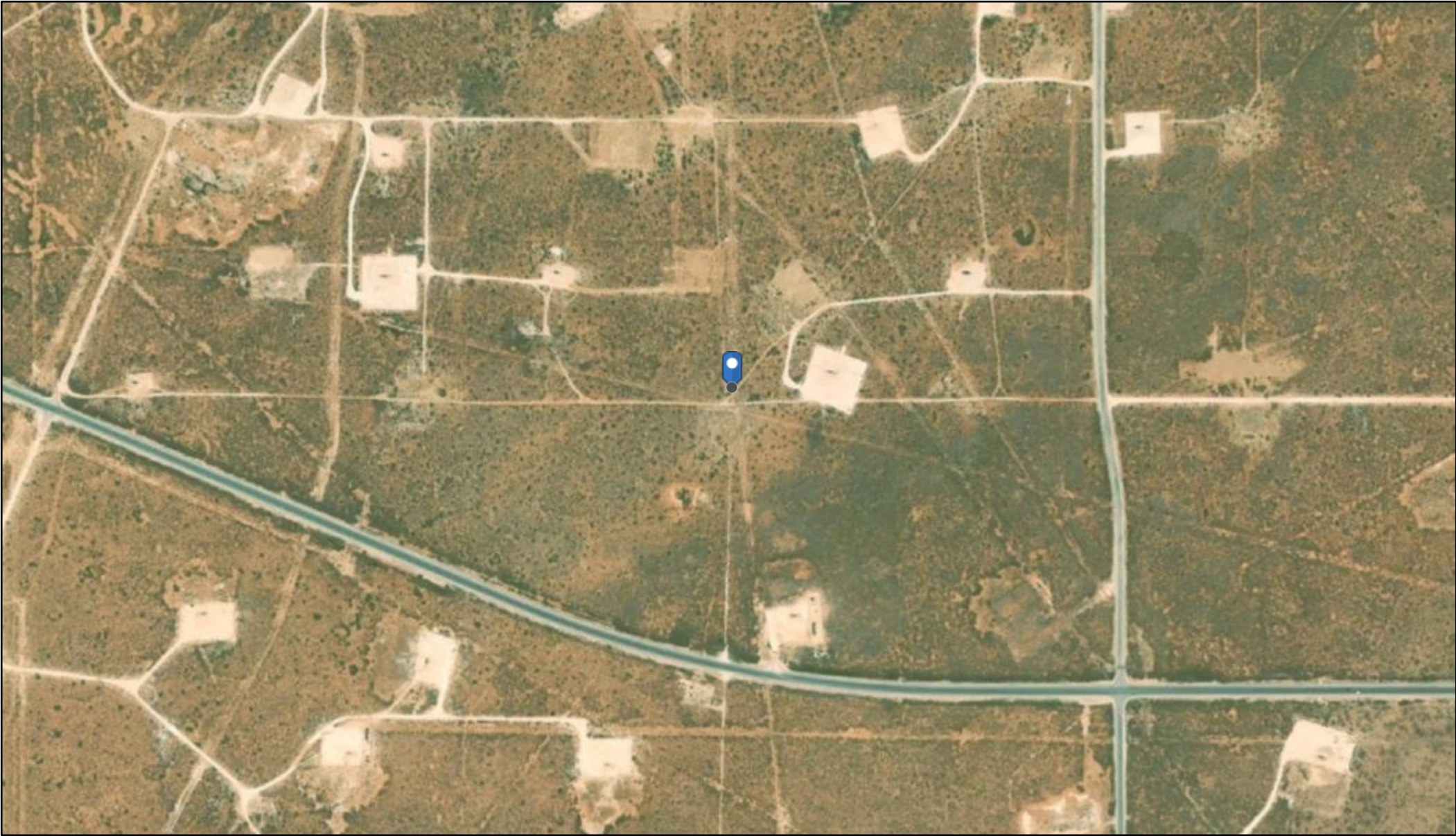
## Legend

- ☆ Approximate Release Point
- High
- Low
- Medium



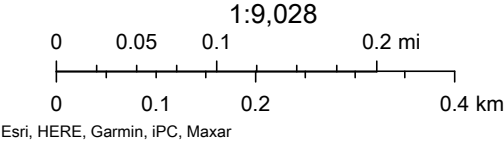


OCD - Waterbodies Map



11/16/2021, 12:20:45 PM

- OSE Water-bodies
- PLJV Probable Playas
- OSE Streams



## **APPENDIX C**

### **Waste Manifests**





Permian Basin

Customer: CONOCOPHILLIPS  
 Customer #: CRI2190  
 Ordered by: ANDREW RICHARDS  
 AFE #:  
 PO #:  
 Manifest #: ~~NA~~  
 Manif. Date: 3/1/2022  
 Hauler: MCNABB PARTNERS  
 Driver: HUGO  
 Truck #: M31  
 Card #  
 Job Ref #

Ticket #: 700-1279693  
 Bid #: O6UJ9A000HH0  
 Date: 3/1/2022  
 Generator: CONOCOPHILLIPS  
 Generator #:  
 Well Ser. #: 39765L  
 Well Name: MCA UNIT  
 Well #: 470  
 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 RICHARDS  
 AFE #:  
 PO #:  
 Manifest #: 2  
 Manif. Date: 3/2/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JOE  
 Truck #: M81  
 Card #  
 Job Ref #

Ticket #: 700-1279898  
 Bid #: O6UJ9A000HH0  
 Date: 3/2/2022  
 Generator: CONOCOPHILLIPS  
 Generator #:  
 Well Ser. #: 39765L  
 Well Name: MCA UNIT  
 Well #: 470  
 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 RICHARDS  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 3/2/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JOE  
 Truck #: M81  
 Card #  
 Job Ref #

Ticket #: 700-1279954  
 Bid #: O6UJ9A000HH0  
 Date: 3/2/2022  
 Generator: CONOCOPHILLIPS  
 Generator #:  
 Well Ser. #: 39765L  
 Well Name: MCA UNIT  
 Well #: 470  
 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 RICHARDS  
 AFE #:  
 PO #:  
 Manifest #: 4  
 Manif. Date: 3/2/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JOE  
 Truck #: M81  
 Card #  
 Job Ref #

Ticket #: 700-1280057  
 Bid #: O6UJ9A000HH0  
 Date: 3/2/2022  
 Generator: CONOCOPHILLIPS  
 Generator #:  
 Well Ser. #: 39765L  
 Well Name: MCA UNIT  
 Well #: 470  
 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:

☒ 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 RICHARDS  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 3/3/2022  
 Hauler: MCNABB PARTNERS LLC  
 Driver: JOE  
 Truck #: M81  
 Card #  
 Job Ref #

Ticket #: 700-1280294  
 Bid #: O6UJ9A000HH0  
 Date: 3/3/2022  
 Generator: CONOCOPHILLIPS  
 Generator #:  
 Well Ser. #: 39765L  
 Well Name: MCA UNIT  
 Well #: 470  
 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 RICHARDS  
 AFE #:  
 PO #:  
 Manifest #: 6  
 Manif. Date: 3/3/2022  
 Hauler: MCNABB PARTNERS  
 Driver: DANIEL  
 Truck #: M85  
 Card #  
 Job Ref #

Ticket #: 700-1280429  
 Bid #: O6UJ9A000HH0  
 Date: 3/3/2022  
 Generator: CONOCOPHILLIPS  
 Generator #:  
 Well Ser. #: 999908  
 Well Name: MCA BATTERY  
 Well #: 2  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County

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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☐ 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: ANDREW RICHARDS  
AFE #:  
PO #:  
Manifest #: NA  
Manif. Date: 4/4/2022  
Hauler: MCNABB PARTNERS  
Driver: HUGO  
Truck #: M31  
Card #  
Job Ref #

Ticket #: 700-1290639  
Bid #: O6UJ9A000HH0  
Date: 4/4/2022  
Generator: CONOCOPHILLIPS  
Generator #:  
Well Ser. #: 39765L  
Well Name: MCA UNIT  
Well #: 470  
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:

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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

Hugo M31

[Signature]

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_





Permian Basin

Customer: CONOCOPHILLIPS  
 Customer #: CRI2190  
 Ordered by: ANDREW RICHARDS  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 4/4/2022  
 Hauler: MCNABB PARTNERS  
 Driver: HUGO  
 Truck #: M31  
 Card #  
 Job Ref #

Ticket #: 700-1290601  
 Bid #: O6UJ9A000HH0  
 Date: 4/4/2022  
 Generator: CONOCOPHILLIPS  
 Generator #:  
 Well Ser. #: 39765L  
 Well Name: MCA UNIT  
 Well #: 470  
 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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☐ 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

Hugo M31

[Signature]

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



Permian Basin

Customer: CONOCOPHILLIPS  
Customer #: CRI2190  
Ordered by: ANDREW RIHARDS  
AFE #:  
PO #:  
Manifest #: N/A  
Manif. Date: 4/4/2022  
Hauler: MCNABB PARTNERS  
Driver: HUGO  
Truck #: M31  
Card #  
Job Ref #

Ticket #: 700-1290549  
Bid #: O6UJ9A000HH0  
Date: 4/4/2022  
Generator: CONOCOPHILLIPS  
Generator #:  
Well Ser. #: 39765L  
Well Name: MCA UNIT  
Well #: 470  
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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☐ 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**

Handwritten signature of Hugo M31 in black ink.

Handwritten signature of an R360 representative in black ink.

**Customer Approval****THIS IS NOT AN INVOICE!**

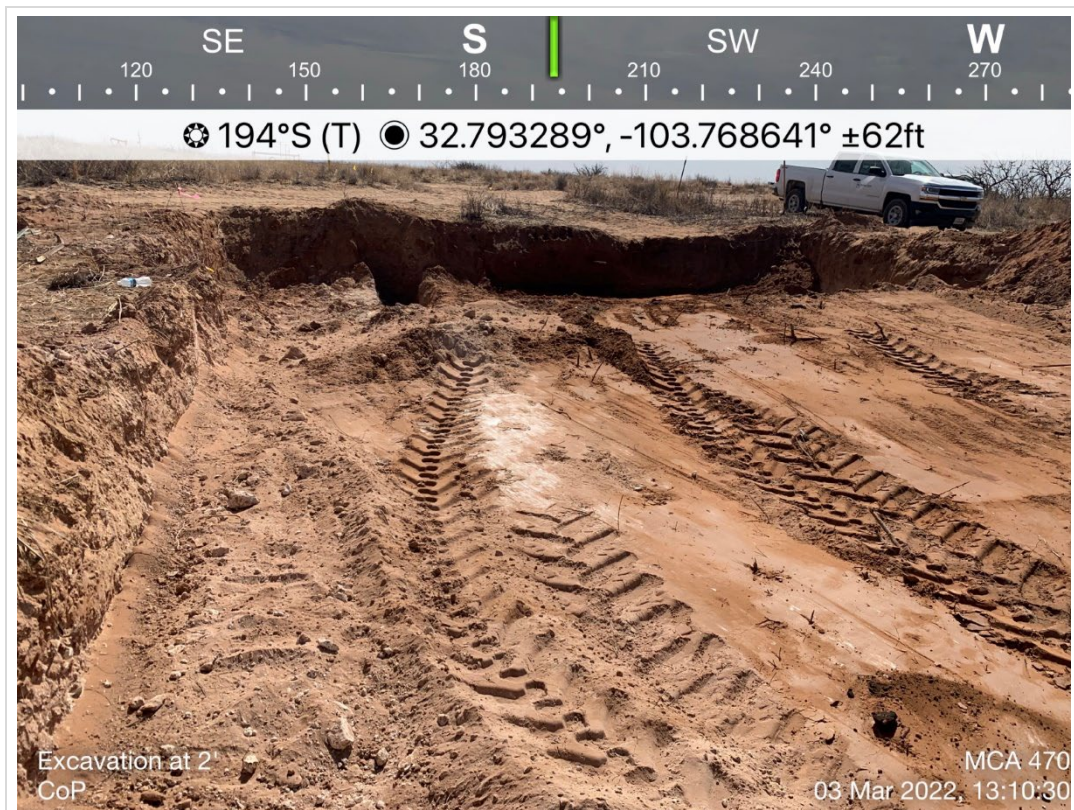
Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

## **APPENDIX D**

### **Photographic Documentation**





TETRA TECH, INC. PROJECT NO. 212C-MD-02617	DESCRIPTION	View south. 4' bgs excavation.	1
	SITE NAME	ConocoPhillips MCA 470 Flowline Remediation	4/4/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02617	DESCRIPTION	View northwest. 2' and 1' bgs excavations.	2
	SITE NAME	ConocoPhillips MCA 470 Flowline Remediation	4/4/2021



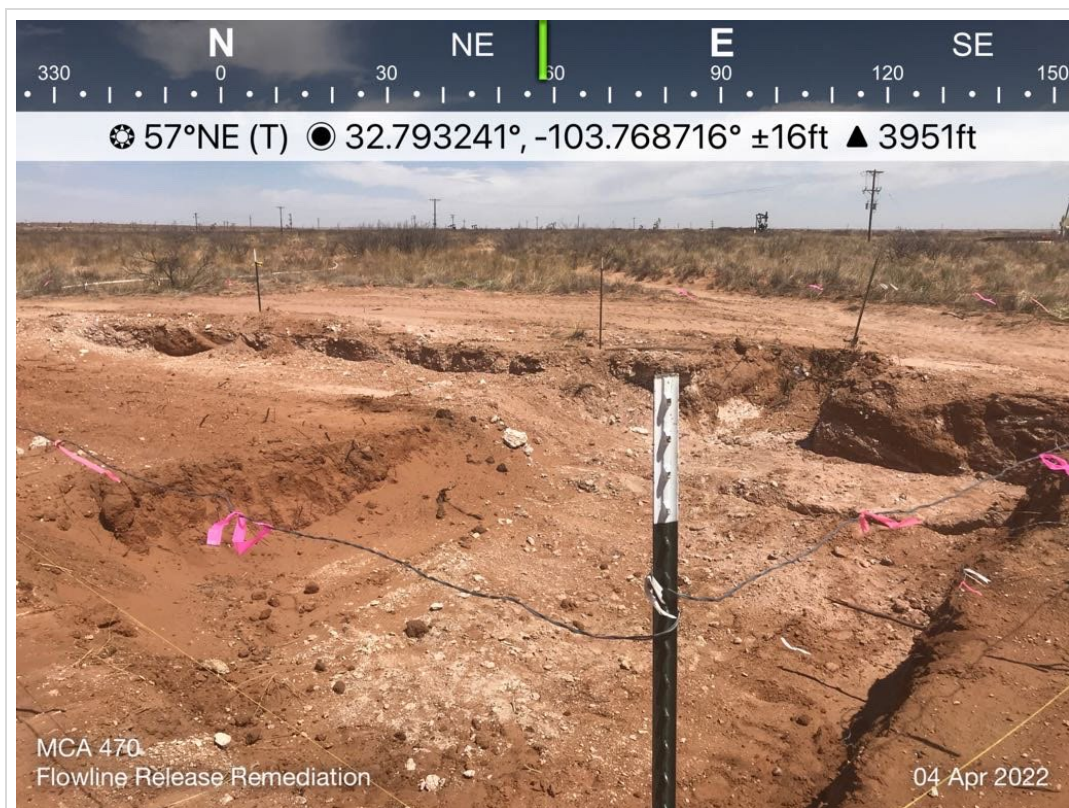


TETRA TECH, INC. PROJECT NO. 212C-MD-02617	DESCRIPTION	View west northwest. 4' and 1' bgs excavations.	3
	SITE NAME	ConocoPhillips MCA 470 Flowline Remediation	3/3/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02617	DESCRIPTION	View north. 4', 2' & 1' bgs excavations.	4
	SITE NAME	ConocoPhillips MCA 470 Flowline Remediation	3/4/2022





TETRA TECH, INC. PROJECT NO. 212C-MD-02617	DESCRIPTION	View east northeast. 4' bgs excavation with eastern sidewall expansion, SW-1 (2').	5
	SITE NAME	ConocoPhillips MCA 470 Flowline Remediation	3/4/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02617	DESCRIPTION	View east. 4' bgs excavation with eastern sidewall expansion, SW-1 (2').	6
	SITE NAME	ConocoPhillips MCA 470 Flowline Remediation	4/4/2022





TETRA TECH, INC. PROJECT NO. 212C-MD-02617	DESCRIPTION	View southeast. 4' bgs excavation.	7
	SITE NAME	ConocoPhillips MCA 470 Flowline Remediation	4/4/2022

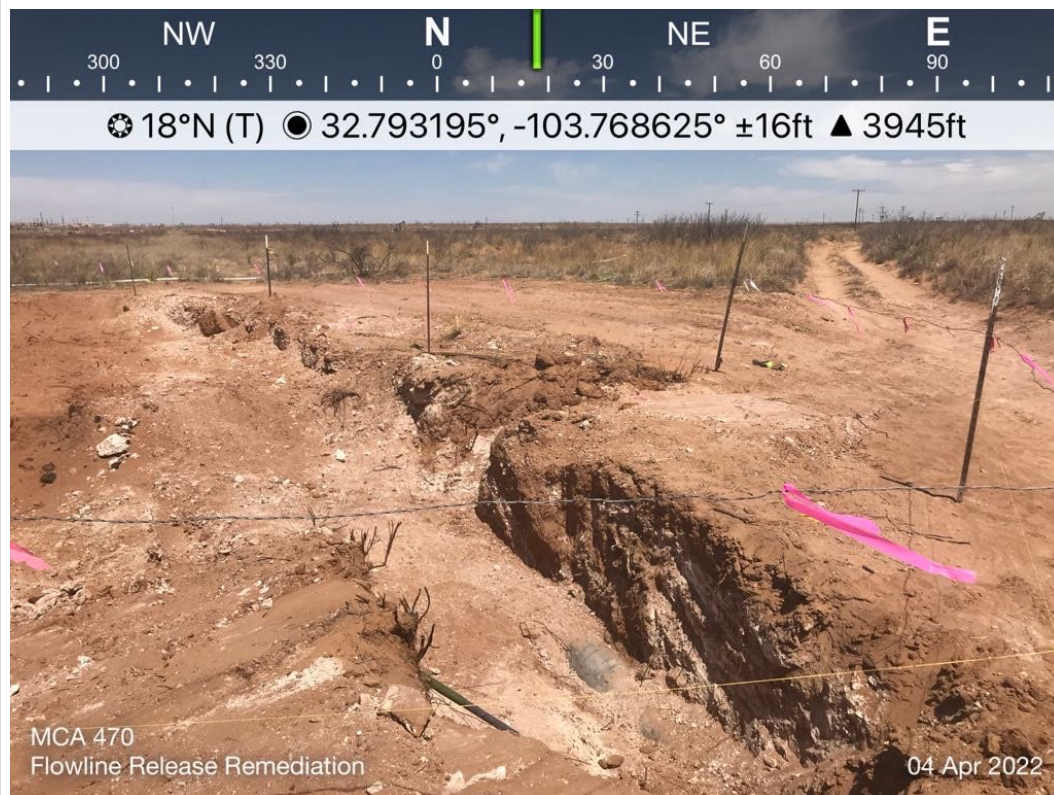


TETRA TECH, INC. PROJECT NO. 212C-MD-02617	DESCRIPTION	View south southeast. 4' bgs excavation.	8
	SITE NAME	ConocoPhillips MCA 470 Flowline Remediation	4/4/2022





TETRA TECH, INC. PROJECT NO. 212C-MD-02617	DESCRIPTION	View south southwest. 4' bgs excavation with southern sidewall expansion, SW-2 (4').	9
	SITE NAME	ConocoPhillips MCA 470 Flowline Remediation	4/4/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02617	DESCRIPTION	View north northeast. Southern sidewall expansion SW-2 (4').	10
	SITE NAME	ConocoPhillips MCA 470 Flowline Remediation	4/4/2022



## **APPENDIX E**

### **Regulatory Correspondence**

**Poole, Nicholas**

---

**From:** Llull, Christian  
**Sent:** Thursday, March 3, 2022 4:35 PM  
**To:** ocd.enviro@state.nm.us  
**Cc:** Poole, Nicholas  
**Subject:** Incident ID: NRM1935447155 - Confirmation Sampling

RE: Incident ID (n#) **NRM1935447155** (MCA 470 Flowline Release)

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 are beginning at the site this week.

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 will be conducted at this site on March 7, 2022.

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

**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](mailto:christian.llull@tetrattech.com)

**Tetra Tech** | *Leading with Science*® | OGA

8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | [tetrattech.com](http://tetrattech.com)

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## **APPENDIX F**

### **Laboratory Analytical Data**



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

---

March 09, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MCA 470 FLOW LINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 03/03/22 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

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:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/09/2022	Sampling Type:	Soil
Project Name:	MCA 470 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02617	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: FS - 1 ( 4' ) (H220842-01)**

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	03/04/2022	ND	2.02	101	2.00	6.32	
Toluene*	<0.050	0.050	03/04/2022	ND	1.98	99.2	2.00	6.57	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.90	94.8	2.00	6.86	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.95	99.2	6.00	6.04	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	03/07/2022	ND	432	108	400	3.64	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2022	ND	199	99.4	200	7.72	
DRO >C10-C28*	225	10.0	03/08/2022	ND	232	116	200	12.9	
EXT DRO >C28-C36	272	10.0	03/08/2022	ND					

Surrogate: 1-Chlorooctane 80.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.1 % 59.5-142

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:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/09/2022	Sampling Type:	Soil
Project Name:	MCA 470 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02617	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: FS - 2 ( 4' ) (H220842-02)**

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	03/04/2022	ND	2.02	101	2.00	6.32		
Toluene*	<0.050	0.050	03/04/2022	ND	1.98	99.2	2.00	6.57		
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.90	94.8	2.00	6.86		
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.95	99.2	6.00	6.04		
Total BTEx	<0.300	0.300	03/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	03/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2022	ND	199	99.4	200	7.72	
DRO >C10-C28*	736	10.0	03/08/2022	ND	232	116	200	12.9	
EXT DRO >C28-C36	644	10.0	03/08/2022	ND					

Surrogate: 1-Chlorooctane 87.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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\*=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:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/09/2022	Sampling Type:	Soil
Project Name:	MCA 470 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02617	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: FS - 3 ( 2' ) (H220842-03)**

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	03/04/2022	ND	2.02	101	2.00	6.32		
Toluene*	<0.050	0.050	03/04/2022	ND	1.98	99.2	2.00	6.57		
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.90	94.8	2.00	6.86		
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.95	99.2	6.00	6.04		
Total BTEx	<0.300	0.300	03/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

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	03/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2022	ND	199	99.4	200	7.72	
DRO >C10-C28*	<10.0	10.0	03/08/2022	ND	232	116	200	12.9	
EXT DRO >C28-C36	<10.0	10.0	03/08/2022	ND					

Surrogate: 1-Chlorooctane 90.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.4 % 59.5-142

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\*=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:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/09/2022	Sampling Type:	Soil
Project Name:	MCA 470 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02617	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: FS - 4 ( 2' ) (H220842-04)**

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	03/04/2022	ND	2.19	109	2.00	2.45	
Toluene*	<0.050	0.050	03/04/2022	ND	2.13	107	2.00	1.86	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.04	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.36	106	6.00	1.89	
Total BTEx	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	03/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2022	ND	199	99.4	200	7.72	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	232	116	200	12.9	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 73.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 72.9 % 59.5-142

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\*=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:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/09/2022	Sampling Type:	Soil
Project Name:	MCA 470 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02617	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: FS - 5 ( 2' ) (H220842-05)**

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	03/04/2022	ND	2.19	109	2.00	2.45	
Toluene*	<0.050	0.050	03/04/2022	ND	2.13	107	2.00	1.86	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.04	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.36	106	6.00	1.89	
Total BTX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

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	03/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2022	ND	199	99.4	200	7.72	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	232	116	200	12.9	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 70.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 68.9 % 59.5-142

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:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/09/2022	Sampling Type:	Soil
Project Name:	MCA 470 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02617	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: SW - 1 (H220842-06)**

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	03/04/2022	ND	2.19	109	2.00	2.45		
Toluene*	<0.050	0.050	03/04/2022	ND	2.13	107	2.00	1.86		
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.04	102	2.00	1.92		
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.36	106	6.00	1.89		
Total BTEX	<0.300	0.300	03/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

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	03/07/2022	ND	432	108	400	3.64		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/05/2022	ND	199	99.4	200	7.72		
DRO >C10-C28*	81.9	10.0	03/05/2022	ND	232	116	200	12.9		
EXT DRO >C28-C36	29.4	10.0	03/05/2022	ND						

Surrogate: 1-Chlorooctane 70.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 72.3 % 59.5-142

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:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/09/2022	Sampling Type:	Soil
Project Name:	MCA 470 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02617	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: SW - 2 (H220842-07)**

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	03/04/2022	ND	2.19	109	2.00	2.45	
Toluene*	<0.050	0.050	03/04/2022	ND	2.13	107	2.00	1.86	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.04	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.36	106	6.00	1.89	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

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	03/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2022	ND	199	99.4	200	7.72	
DRO >C10-C28*	196	10.0	03/05/2022	ND	232	116	200	12.9	
EXT DRO >C28-C36	126	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 72.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 72.1 % 59.5-142

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\*=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:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/09/2022	Sampling Type:	Soil
Project Name:	MCA 470 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02617	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: SW - 3 (H220842-08)**

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	03/04/2022	ND	2.19	109	2.00	2.45	
Toluene*	<0.050	0.050	03/04/2022	ND	2.13	107	2.00	1.86	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.04	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.36	106	6.00	1.89	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	03/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 68.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 69.8 % 59.5-142

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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:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/09/2022	Sampling Type:	Soil
Project Name:	MCA 470 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02617	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: SW - 4 (H220842-09)**

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	03/04/2022	ND	2.19	109	2.00	2.45	
Toluene*	<0.050	0.050	03/04/2022	ND	2.13	107	2.00	1.86	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	2.04	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.36	106	6.00	1.89	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	03/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 82.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.1 % 59.5-142

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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:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/09/2022	Sampling Type:	Soil
Project Name:	MCA 470 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02617	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: SW - 5 (H220842-10)**

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	03/05/2022	ND	2.19	109	2.00	2.45	
Toluene*	<0.050	0.050	03/05/2022	ND	2.13	107	2.00	1.86	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.04	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.36	106	6.00	1.89	
Total BTEX	<0.300	0.300	03/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	03/07/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 84.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.0 % 59.5-142

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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:	03/03/2022	Sampling Date:	03/03/2022
Reported:	03/09/2022	Sampling Type:	Soil
Project Name:	MCA 470 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02617	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: SW - 6 (H220842-11)**

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	03/05/2022	ND	2.19	109	2.00	2.45	
Toluene*	<0.050	0.050	03/05/2022	ND	2.13	107	2.00	1.86	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.04	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.36	106	6.00	1.89	
Total BTEx	<0.300	0.300	03/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	03/07/2022	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	03/07/2022	ND	180	89.9	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	194	97.1	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 81.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

---

Celey D. Keene, Lab Director/Quality Manager



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: CAP						P.O. #:						BILL TO											
Project Manager: Christian Lull / Rahul, Kaushik						Company: Conoco Phillips						ANALYSIS REQUEST											
Address:						Attn: Rahul Kaushik																	
City: State: Zip:						Address:																	
Phone #: Fax #:						City: State: Zip:																	
Project #: MCA 470 Flowline Project Owner:						City: State: Zip:																	
Project Location: Lea County, NM						Phone #: Fax #:																	
Sample Name: Adina Garcia						PRESERV						SAMPLING											
FOR LAB USE ONLY																							
Lab I.D.						(G)RAB OR (C)OMP.																	
Sample I.D.						# CONTAINERS																	
H220842						GROUNDWATER																	
						WASTEWATER																	
						SOIL																	
						OIL																	
						SLUDGE																	
						OTHER :																	
						ACID/BASE:																	
						ICE / COOL																	
						OTHER :																	
						DATE																	
						TIME																	
1 FS-1 (4')						X						3/3/22 1200						Chloride 4500					
2 FS-2 (4')						X						1210						BTEX 8021					
3 FS-3 (2')						X						1220						TPH 8015					
4 FS-4 (2')						X						1230											
5 FS-5 (2')						X						1240											
6 SW-1						X						1245											
7 SW-2						X						1250											
8 SW-3						X						1255											
9 SW-4						X						1300											
10 SW-5						X						1305											
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.												Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:											
Relinquished By: [Signature]												All Results are emailed. Please provide Email address:											
Date: 3/3/22 Time: 14:25												REMARKS: please send report to Rahul, Kaushik@conocophillips.com											
Observed Temp. °C 3.5 Corrected Temp. °C 3.0												Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>											
Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Bacteria (only) Sample Condition <input checked="" type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No												Thermometer ID #113 Correction Factor -0.5°C											





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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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April 07, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MCA 470 FLOW LINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 04/04/22 16:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

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:	04/04/2022	Sampling Date:	04/04/2022
Reported:	04/07/2022	Sampling Type:	Soil
Project Name:	MCA 470 FLOW LINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02617	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA CO NM		

**Sample ID: SW - 1 ( 2' ) (H221335-01)**

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	04/05/2022	ND	2.18	109	2.00	6.87	
Toluene*	<0.050	0.050	04/05/2022	ND	2.15	108	2.00	6.39	
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	2.12	106	2.00	6.10	
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.51	108	6.00	5.76	
Total BTX	<0.300	0.300	04/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	04/05/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/07/2022	ND	214	107	200	3.43	
DRO >C10-C28*	<10.0	10.0	04/07/2022	ND	233	117	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	04/07/2022	ND					

Surrogate: 1-Chlorooctane 82.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.5 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/04/2022  
 Reported: 04/07/2022  
 Project Name: MCA 470 FLOW LINE RELEASE  
 Project Number: 212C - MD - 02617  
 Project Location: COP - LEA CO NM

Sampling Date: 04/04/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 2 ( 4' ) (H221335-02)**

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	04/05/2022	ND	2.18	109	2.00	6.87		
Toluene*	<0.050	0.050	04/05/2022	ND	2.15	108	2.00	6.39		
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	2.12	106	2.00	6.10		
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.51	108	6.00	5.76		
Total BTEx	<0.300	0.300	04/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	04/05/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2022	ND	214	107	200	3.43	
DRO >C10-C28*	<10.0	10.0	04/06/2022	ND	233	117	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	04/06/2022	ND					

Surrogate: 1-Chlorooctane 89.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

---

Cardinal Laboratories

\*=Accredited Analyte

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

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Celey D. Keene, Lab Director/Quality Manager



[illegible]

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

CONDITIONS  
  
Action 102202

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 102202
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	5/20/2022