



June 7, 2023

Ashley Maxwell
Projects Environmental Specialist
New Mexico Energy, Minerals, and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

**RE: Closure Report
ConocoPhillips
Heritage Concho
Mas Federal Com #002H Release
Unit Letter A, Section 34, Township 20 South, Range 34 East
Lea County, New Mexico
Incident ID: nCH1821237385**

Ms. Maxwell:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to assess a Heritage Concho release that occurred from a tank battery associated with the Mas Federal Com #002H (API No. 30-025-44214). The release footprint is located in Public Land Survey System (PLSS) Unit Letter A, Section 34, Township 20 South, Range 34 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.53632°, -103.54164°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, the release was discovered on July 29, 2018. The C-141 reports that the release was caused by a hole in the housing. Approximately 2 barrels (bbls) of oil and four (4) bbls of produced water were released and no fluids were recovered. The release reportedly remained on the oil and gas operations pad. The NMOCD approved the initial C-141 on July 31, 2018 and subsequently assigned the release the Incident ID nCH1821237385 and the remediation permit (RP) number 1RP-5138. The initial C-141 form is included in Appendix A.

SITE CHARACTERIZATION

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

There are two (2) water wells listed in the New Mexico Office of the State Engineer (NMOSE) database located within approximately 0.5 miles (800 meters) of the Site. According to data from these wells, the minimum depth to groundwater is 651 feet below ground surface (bgs). The site characterization data are presented 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

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June 7, 2023

ConocoPhillips

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

SITE ASSESSMENT AND REMEDIATION WORK PLAN

TRC Environmental Corporation (TRC) submitted a Site Assessment Summary and Proposed Remediation Plan dated November 9, 2018, which described the initial site assessment activities. On June 20, 2018, TRC was onsite and collected soil samples from eight (8) locations within and surrounding the release extent, as shown on Figure 3.

A total of twelve (12) samples were sent to Xenco Laboratories in Midland, Texas and analyzed for TPH, BTEX and chloride. The analytical results from the initial site assessment are summarized in Table 1. Analytical results associated with the 6-inch sampling interval at HA-2 exceeded the RRAL for TPH of 2,500 mg/kg. There were no other analytical results that exceeded the Site RRALs. TRC proposed excavating impacted soils in the vicinity of sample point HA-2 to a depth of 2 feet or until confirmation soil samples indicated concentrations of TPH and chloride below NMOCD Closure Criteria.

The Site Assessment Summary and Proposed Remediation Plan was approved by NMOCD in an email dated December 8, 2022, with the following comments:

- *“Work plan approved.*
- *Sampling variance denied. OCD approves conformation samples to be collected every 400 square feet on the sidewalls and base.*
- *Submit closure report via the OCD permitting portal by March 10, 2023”*

An extension request to June 3, 2023 was approved by NMOCD in an email dated April 11, 2023. A copy of the regulatory correspondence is included as Appendix C.

REMEDIATION ACTIVITIES AND CONFIRMATION SAMPLING

In May 2023, Tetra Tech personnel were onsite to remediate the release as proposed in the approved Work Plan, including excavation, disposal and backfill. The extent of impacted soils was redefined with field soil screening data and then excavated to 1-foot bgs. A 4-foot exclusion zone was established around energized lines in the release area. Photographs from the excavated areas prior to backfill are provided in Appendix D.

All of the excavated material was transported offsite for proper disposal. Approximately one hundred and forty-six (146) cubic yards of material were transported to the R360 Halfway Facility in Hobbs, New Mexico. Copies of the waste manifests are included in Appendix E.

Prior to confirmation sampling, in accordance with Subsection D of 19.15.29.12 NMAC, the NMOCD district office was notified via email on May 15, 2023. Documentation of associated regulatory correspondence is

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June 7, 2023

ConocoPhillips

included in Appendix C. On May 16, 2023, 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 conditions of the NMOCD approval of the Work Plan, confirmation samples were collected such that each discrete sample (sidewall and floor) were representative of no more than 400 square feet of excavated area. A total of five (5) floor sample locations and five (5) sidewall sample locations were used during the remedial activities. Confirmation sidewall sample locations were labeled with "SW"-#, and confirmation floor sample locations were labeled with "FS"-#. Analytical results for all confirmation soil samples (floor and sidewall) were below the respective RRALs for chloride, BTEX, and TPH. The results of the May 2023 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.

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 me at (512) 739-7874.

Sincerely,

Tetra Tech, Inc.



Samantha K. Abbott, P.G.
Project Manager



Christian M. Llull, P.G.
Program Manager

cc:

Mr. Moises H. Cantu Garcia, PBU – ConocoPhillips

LIST OF ATTACHMENTS

Figures:

- Figure 1 – Overview Map
- Figure 2 – Topographic Map
- Figure 3 – Approximate Release Extent and Site Assessment (TRC)
- Figure 4 – Remediation Extent and Confirmation Sampling (Tetra Tech 2023)

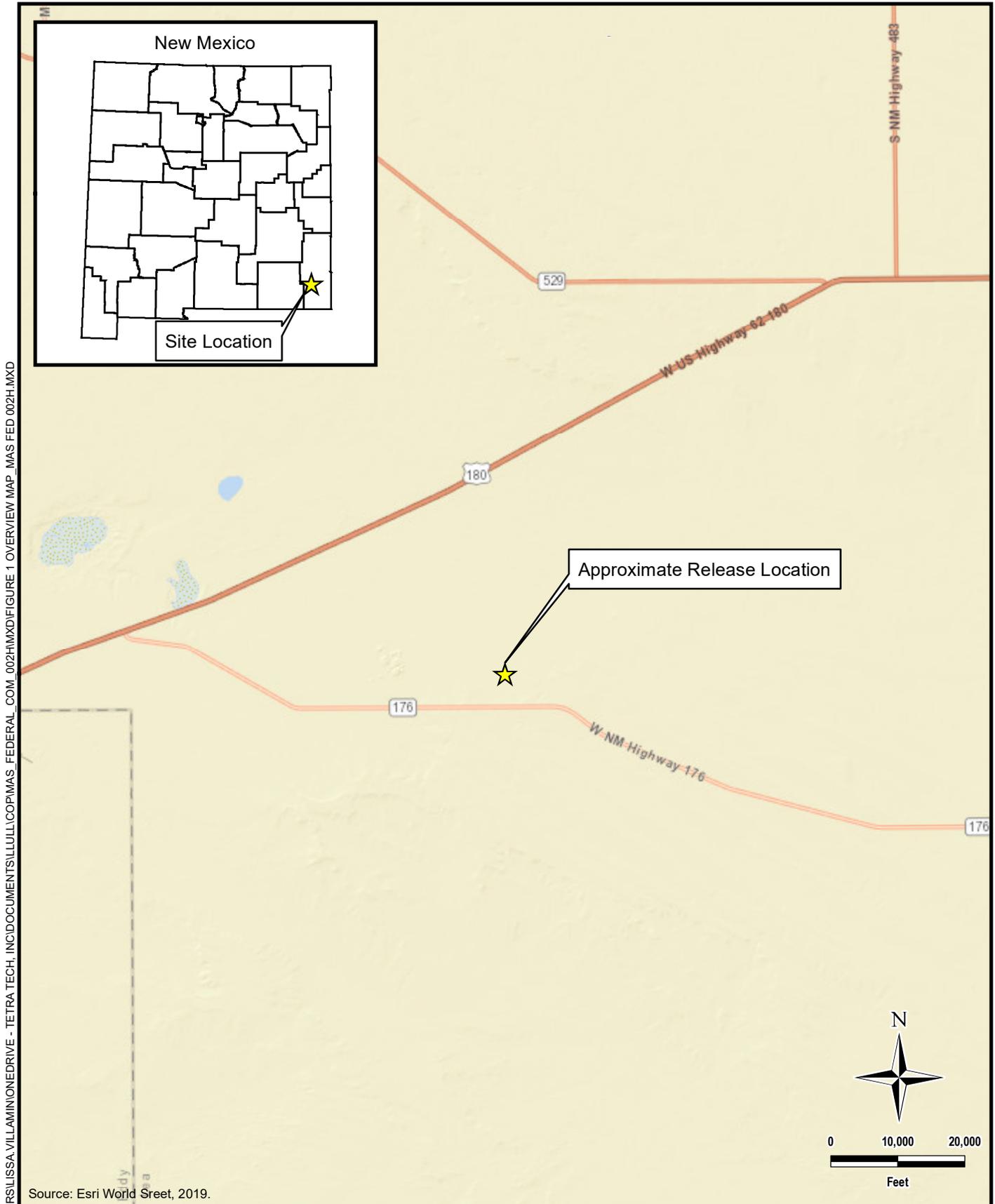
Tables:

- 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 – Regulatory Correspondence
- Appendix D – Photographic Documentation
- Appendix E – Waste Manifests
- Appendix F – Laboratory Analytical Report

FIGURES



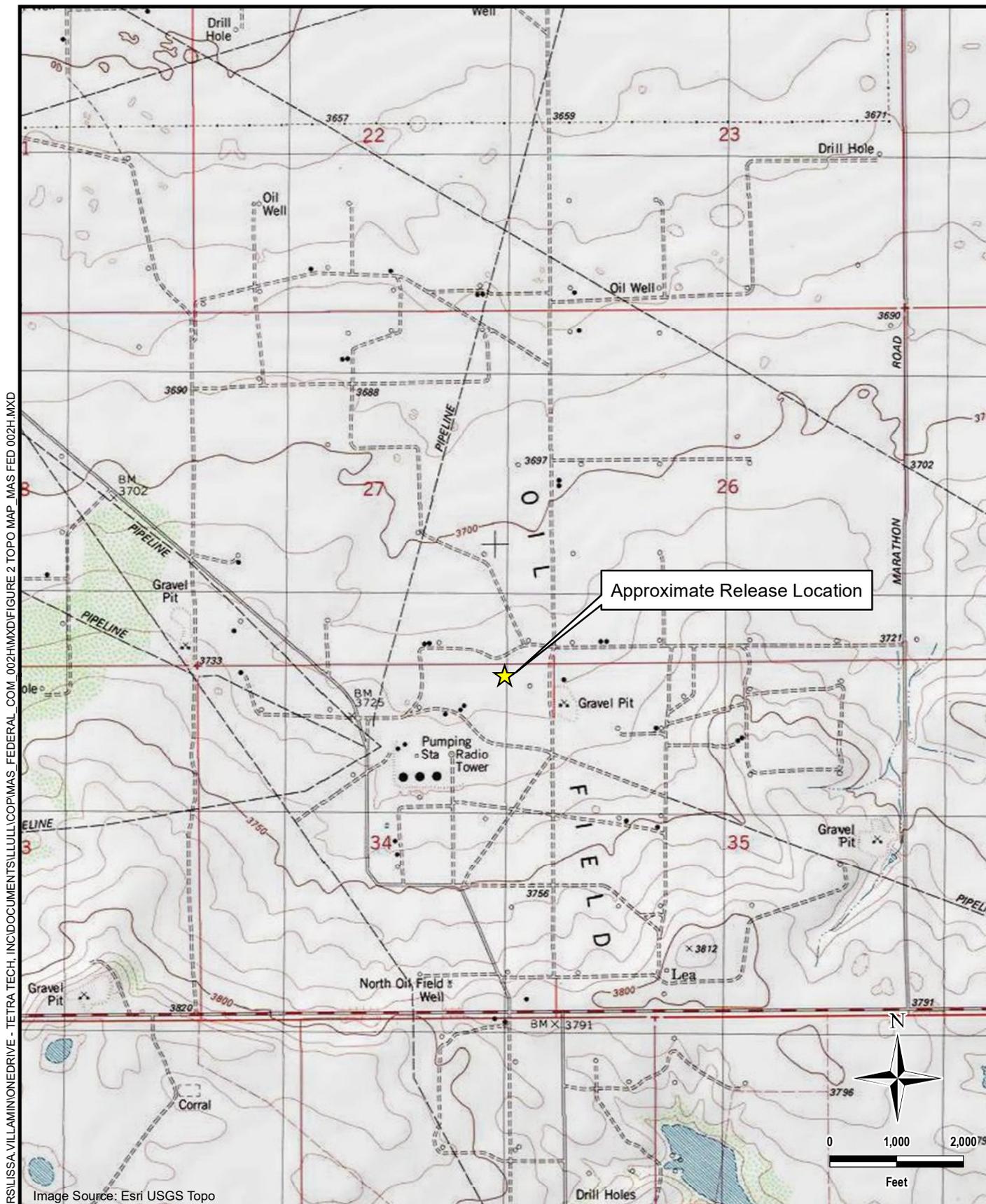
DOCUMENT PATH: C:\USERS\LISSA.VILLAMINIONEDRIVE - TETRA TECH\INCIDENTS\ILLULLI\COPIMAS_FEDERAL_COM_002H\MXD\FIGURE 1 OVERVIEW MAP_MAS FED 002H.MXD

Source: Esri World Street, 2019.

Tt TETRA TECH
 www.tetratech.com
 901 West Wall Street, Suite 100
 Midland, Texas 79701
 Phone: (432) 682-4559
 Fax: (432) 682-3946

CONOCOPHILLIPS
 NCH1821237385
 (32.53632°, -103.54164°)
 LEA COUNTY, NEW MEXICO
 DOR: 7/29/2018
**MAS FEDERAL COM #002H
 OVERVIEW MAP**

PROJECT NO.:	212C-MD-03069
DATE:	APRIL 27, 2023
DESIGNED BY:	LMV
Figure No.	1



DOCUMENT PATH: C:\USERS\LISSA.VILLAMINONEDRIVE - TETRA TECH\INCIDENTS\ILLULLUCOPI\MAS FEDERAL COM #002H\MXDIFIGURE 2 TOPO MAP - MAS FED 002H.MXD

Image Source: Esri USGS Topo



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

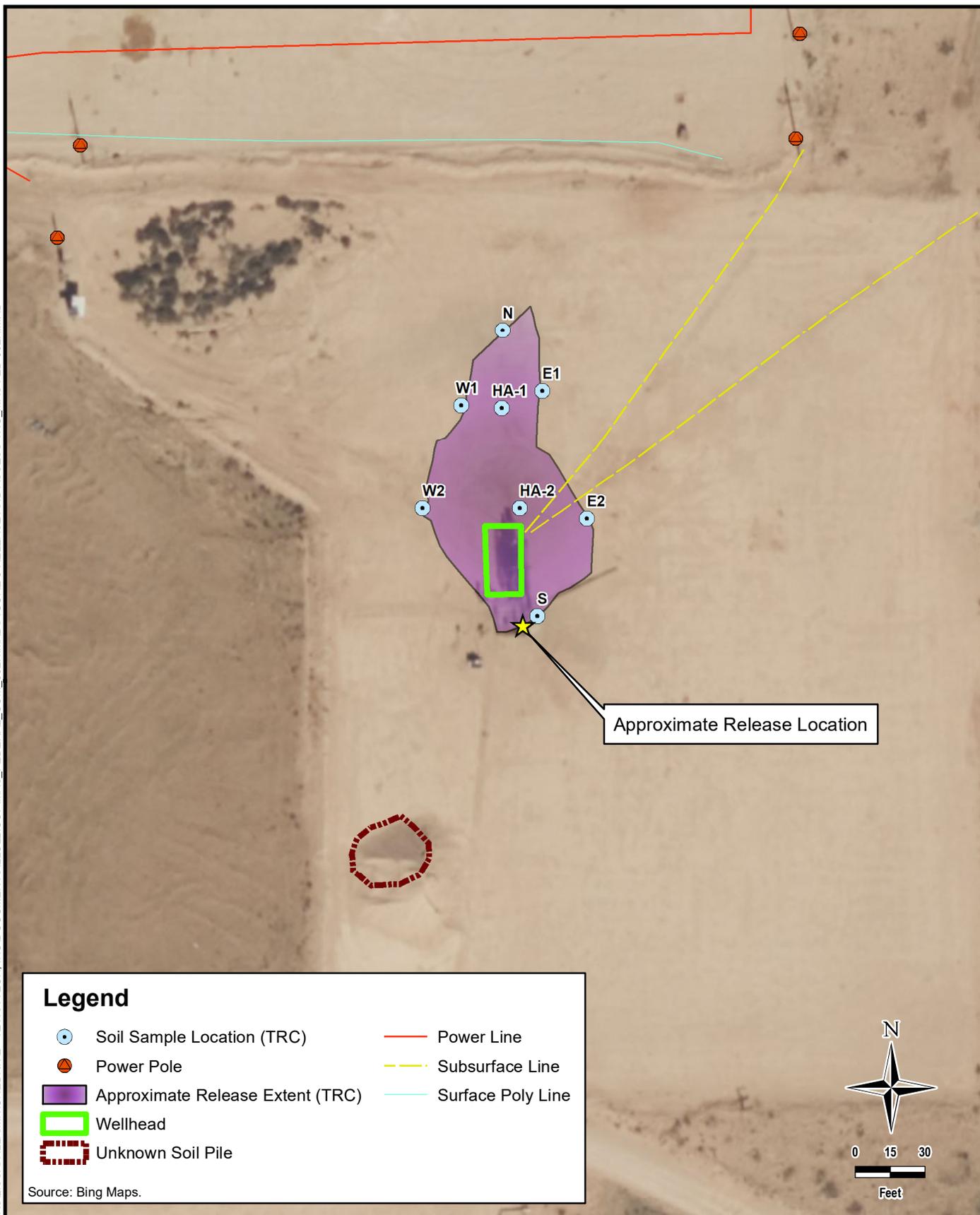
CONOCOPHILLIPS
 NCH1821237385
 (32.53632°, -103.54164°)
 LEA COUNTY, NEW MEXICO
 DOR: 7/29/2018

**MAS FEDERAL COM #002H
 TOPOGRAPHIC MAP**

PROJECT NO.: 212C-MD-03069
 DATE: APRIL 27, 2023
 DESIGNED BY: LMV

Figure No.
2

DOCUMENT PATH: C:\USERS\LISSA.VILLAMINIONEDRIVE - TETRA TECH\INCIDENTS\ILLULLI\COPIAS\FEDERAL_COM_002H\MXD\FIGURE 3 RELEASE AND ASSESS TRC.MAS FED 002H.MXD



Legend

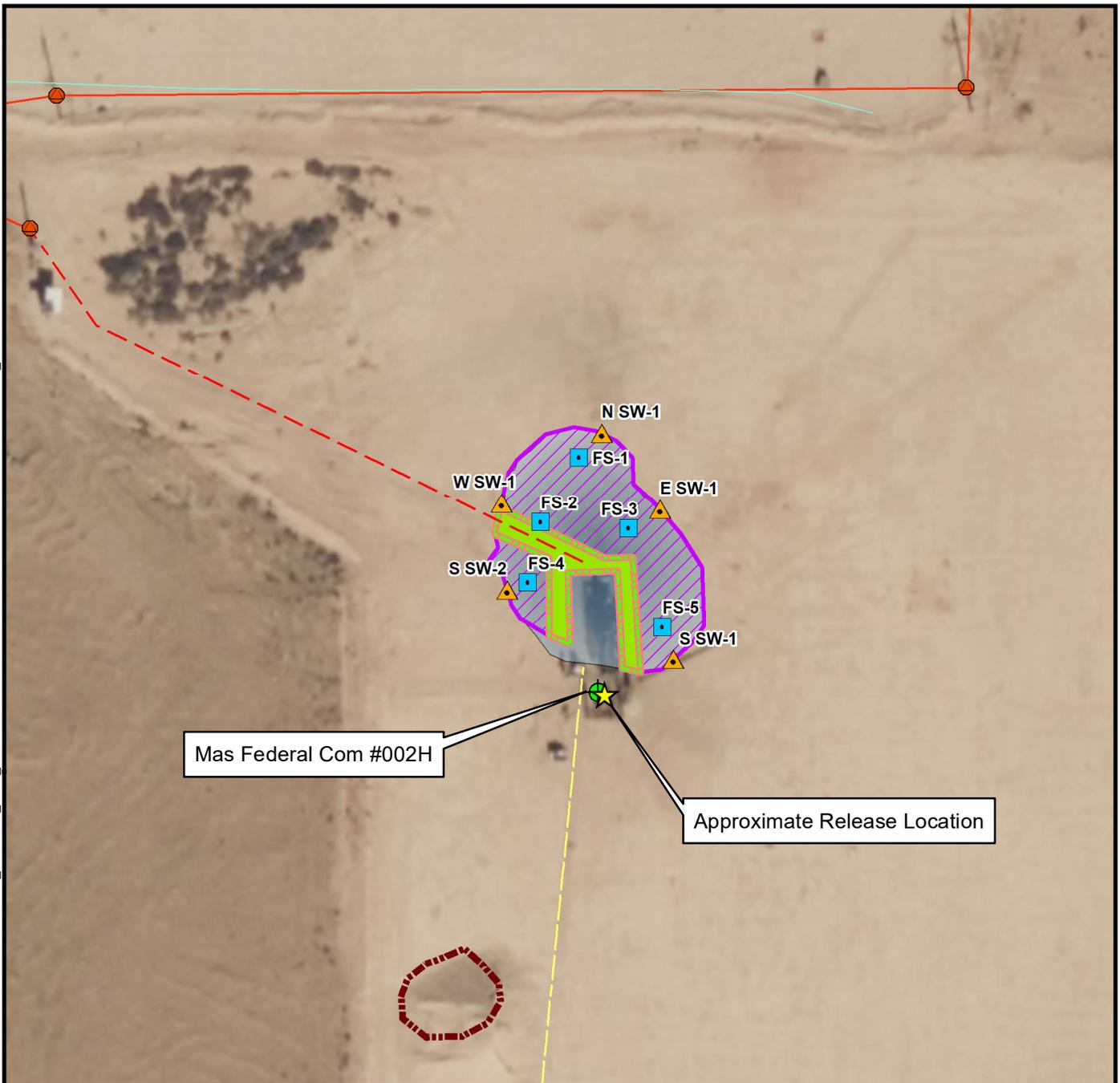
	Soil Sample Location (TRC)		Power Line
	Power Pole		Subsurface Line
	Approximate Release Extent (TRC)		Surface Poly Line
	Wellhead		
	Unknown Soil Pile		

Source: Bing Maps.



<p>TETRA TECH</p> <p>www.tetratech.com</p> <p>901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946</p>	<p>CONOCOPHILLIPS</p> <p>NCH1821237385 (32.53632°, -103.54164°) LEA COUNTY, NEW MEXICO DOR: 7/29/2018</p>	<p>PROJECT NO.: 212C-MD-03069</p> <p>DATE: APRIL 27, 2023</p> <p>DESIGNED BY: LMV</p>
	<p>MAS FEDERAL COM #002H</p> <p>APPROXIMATE RELEASE EXTENT AND SITE ASSESSMENT (TRC)</p>	

DOCUMENT PATH: C:\USERS\LISSA.VILLAMINON\DRIVE - TETRA TECH\INC\DOCUMENTS\LISSA.VILLAMINON\COP\MAS_FEDERAL_COM_002H\MXD\FIGURE 4 REMEDIATION AND CONFIRMATION TT 2023.MAS FED 002H.MXD



Mas Federal Com #002H

Approximate Release Location

Legend

	Wellhead		Tetra Tech- Excavation - 1' BGS
	Floor Confirmation Sample Location		Exclusion Zone
	Sidewall Confirmation Sample Location		Unknown Soil Pile
	Power Pole		Power Line
	Approximate Release Extent Tetra Tech		Subsufac Electrical Line
			Surface Poly Line
			Subsurface flowline

BGS: Below Ground Surface
Source: Bing Maps.



<p>TETRA TECH</p> <p>www.tetratech.com</p> <p>901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946</p>	<p>CONOCOPHILLIPS</p> <p>NCH1821237385 (32.53632°, -103.54164°) LEA COUNTY, NEW MEXICO DOR: 7/29/2018</p>	<p>PROJECT NO.: 212C-MD-03069</p> <p>DATE: MAY 22, 2023</p> <p>DESIGNED BY: LMV</p>
	<p>MAS FEDERAL COM #002H</p> <p>REMEDICATION EXTENT AND CONFIRMATION SAMPLING (TETRA TECH 2023)</p>	

TABLES

TABLE 1
 SUMMARY OF ANALYTICAL RESULTS
 SOIL ASSESSMENT - nCH1821237385
 CONOCOPHILLIPS
 MAS FEDERAL COM #002H
 LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³											
					Benzene		Toluene		Ethylbenzene		m,p-Xylenes		o-Xylene		Total Xylenes		Total BTEX		GRO		DRO		MRO		Total TPH	
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q
HA-1	8/6/2018	6"	798		<0.0193		<0.0193		<0.0193		<0.0386		<0.0193		<3.86		<0.0193		<3.86		631		99.2		730.2	
		1	76.4		<0.0200		<0.0200		<0.0200		<0.0400		<0.0200		<0.0200		<0.0200		<4.00		76.5		<25.1		76.5	
		2	17		<0.0196		<0.0196		<0.0196		<0.0391		<0.0196		<0.0196		<0.0196		<3.91		<25.2		<25.2		-	
HA-2	8/6/2018	6"	2910		<0.0880		<0.0880		<0.0880		<0.176		<0.0880		<0.0880		<0.0880		<17.6		4,370		278		4,648	
		1	1330		<0.0181		<0.0181		<0.0181		<0.0362		<0.0181		<0.0181		<0.0181		<3.62		251		<24.9		251	
		2	141		<0.0184		<0.0184		<0.0184		<0.0368		<0.0184		<0.0184		<0.0184		<3.68		136		<24.9		136	
N	8/6/2018	1	76		<0.0192		<0.0192		<0.0192		<0.0385		<0.0192		<0.0192		<0.0192		<3.85		<25.1		<25.1		-	
E1	8/6/2018	1	20.6		<0.0193		<0.0193		<0.0193		<0.0386		<0.0193		<0.0193		<0.0193		<3.86		<24.9		<24.9		-	
E2	8/6/2018	1	53.5		<0.0174		<0.0174		<0.0174		<0.0348		<0.0174		<0.0174		<0.0174		<3.48		32.5		<25.2		32.5	
S	8/6/2018	1	198		<0.0193		<0.0193		<0.0193		<0.0385		<0.0193		<0.0193		<0.0193		<3.85		130		<24.9		130	
W1	8/6/2018	1	93.3		<0.0194		<0.0194		<0.0194		<0.0388		<0.0194		<0.0194		<0.0194		<3.88		<25.2		<25.2		-	
W2	8/6/2018	1	165		<0.0172		<0.0172		<0.0172		<0.0344		<0.0172		<0.0172		<0.0172		<3.44		<25.1		<25.1		-	

NOTES:

- ft. Feet
- bgs Below ground surface
- mg/kg Milligrams per kilogram
- TPH Total Petroleum Hydrocarbons
- GRO Gasoline range organics
- DRO Diesel range organics
- MRO Motor Oil range organics
- NS Sample not analyzed for parameter
- 1 EPA Method 300.0
- 2 EPA Method 8021B
- 3 Method SW8015 Mod

Bold and italicized values indicate exceedance of proposed Remediation RRALs.

QUALIFIERS:

TABLE 2
 SUMMARY OF ANALYTICAL RESULTS
 SOIL REMEDIATION- NCH1821237385
 CONOCOPHILLIPS
 MAS FEDERAL COM #002H
 LEA COUNTY, NEW MEXICO

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	
NSW-1	5/16/2023	-	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
ESW-1	5/16/2023	-	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
SSW-1	5/16/2023	-	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
SSW-2	5/16/2023	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
WSW-1	5/16/2023	-	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
FS-1	5/16/2023	1	272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
FS-2	5/16/2023	1	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
FS-3	5/16/2023	1	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
FS-4	5/16/2023	1	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
FS-5	5/16/2023	1	272		<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

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 April 3, 2017

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 (OGRID #)	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-683-7443
Facility Name: Mas Federal Com #002H	Facility Type: Well
Surface Owner: Private	Mineral Owner: Federal API No. 30-025-44214

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	34	20S	34E	190	North	660	East	Lea

Latitude 32.536324 Longitude -103.54164 NAD83

NATURE OF RELEASE

Type of Release: Oil & Produced Water	Volume of Release: 2 bbl. Oil 4 bbl. Produced Water	Volume Recovered: 0 bbl. Oil 0 bbl. Produced Water
Source of Release: Hole in housing	Date and Hour of Occurrence: July 29, 2018 8:00am	Date and Hour of Discovery: July 29, 2018 8:00am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" 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.	

RECEIVED
By CHernandez at 10:07 am, Jul 31, 2018

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
The release was caused by a hole in the housing, which is being repaired or replaced.

Describe Area Affected and Cleanup Action Taken.*
The release was on location. A vacuum truck was dispatched to remove all freestanding fluids. Concho will have the spill area sampled to delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant 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 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: <i>DeAnn Grant</i>	OIL CONSERVATION DIVISION	
Printed Name: DeAnn Grant	Approved by Environmental Specialist: <i>SH</i>	
Title: HSE Administrative Assistant	Approval Date: 7/31/2018	Expiration Date:
E-mail Address: agrant@concho.com	Conditions of Approval: See attached directive	Attached <input checked="" type="checkbox"/>
Date: July 30, 2018	Phone: 432-253-4513	

* Attach Additional Sheets If Necessary

1RP-5138 **nCH1821237385**
pCH1821237601

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 7/31/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1RP-5138 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 8/31/2018. 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

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 165539

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 165539
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Work plan approved.	12/8/2022
amaxwell	Sampling variance denied. OCD approves conformation samples to be collected every 400 square feet on the sidewalls and base.	12/8/2022
amaxwell	Submit closure report via the OCD permitting portal by March 10, 2023.	12/8/2022

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Moises H Cantu Garcia Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 06/07/2023

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: Moises H Cantu Garcia Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 06/07/2023

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

Closure Approved by: Ashley Maxwell Date: _____

Printed Name: _____ Title: _____

APPENDIX B

Site Characterization Data

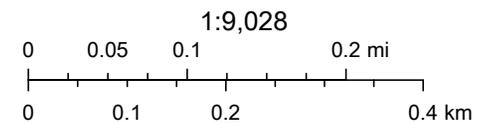
Water Bodies



5/31/2023, 2:50:03 PM

 Override 1

 OSW Water Bodys



Maxar, NM OSE

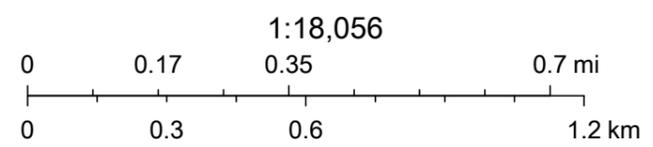
OCD Karst Map



4/25/2023, 5:10:46 PM

Karst Occurrence Potential

Low



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



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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP.01289 POD1		CP	LE	4	4	2	34	20S	34E	637037	3600261	582	1222	651	571
CP.01288 POD1		CP	LE	4	4	2	34	20S	34E	637134	3600204	660	1255	758	497

Average Depth to Water: **704 feet**
 Minimum Depth: **651 feet**
 Maximum Depth: **758 feet**

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 636948.688 **Northing (Y):** 3600838 **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.

4/21/23 3:02 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

APPENDIX C

Regulatory Correspondence

From: OCDOnline@state.nm.us
To: [Beauvais, Charles R](#)
Subject: [EXTERNAL]The Oil Conservation Division (OCD) has approved the application, Application ID: 165539
Date: Thursday, December 8, 2022 3:26:28 PM

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 approved the submitted *Internal Manual Incident File Supporting Documentation (ENV)* (IM-BNF), for incident ID (n#) nCH1821237385, with the following conditions:

- **Work plan approved.**
- **Sampling variance denied. OCD approves conformation samples to be collected every 400 square feet on the sidewalls and base.**
- **Submit closure report via the OCD permitting portal by March 10, 2023.**

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

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

Thank you,
Ashley Maxwell
Projects Environmental Specialist - A
505-635-5000
Ashley.Maxwell@emnrd.nm.gov

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

From: [Maxwell, Ashley, EMNRD](#)
To: [Chavira, Lisbeth](#)
Cc: [Beauvais, Charles R](#); [Llull, Christian](#); [Abbott, Sam](#); [Moises.H.CantuGarcia@conocophillips.com](#)
Subject: RE: [EXTERNAL] RE: Extension Request - Application ID 165539 (nCH1821237385)
Date: Tuesday, April 11, 2023 2:47:32 PM
Attachments: [image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)
[image010.png](#)
[image011.png](#)

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Good Afternoon,

Your extension request of June 3, 2023 is approved.

Thanks,
Ashley

Ashley Maxwell • Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.635.5000 | Ashley.Maxwell@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Chavira, Lisbeth <LISBETH.CHAVIRA@tetrattech.com>
Sent: Tuesday, April 11, 2023 1:45 PM
To: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Cc: Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>; Llull, Christian <Christian.Llull@tetrattech.com>; Abbott, Sam <Sam.Abbott@tetrattech.com>; Moises.H.CantuGarcia@conocophillips.com
Subject: [EXTERNAL] RE: Extension Request - Application ID 165539 (nCH1821237385)

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Ms. Maxwell:

Following up on the requested 90-day extension (until June 3, 2023) below.

Tetra Tech would like to complete the remedial action and associated closure reporting for the Mas Federal Com #002H Release site (**nCH1821237385**) in the next 3 months.

Please let me know if you have any questions or need any additional information.

Thank you,

Lisbeth Chavira | Staff Geoscientist
Direct Mobile +1 (512) 596-8201 | Lisbeth.chavira@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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From: Abbott, Sam <Sam.Abbott@tetrattech.com>
Sent: Friday, March 10, 2023 12:46 PM
To: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Cc: Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>; Lull, Christian <Christian.Lull@tetrattech.com>; Chavira, Lisbeth <LISBETH.CHAVIRA@tetrattech.com>
Subject: Extension Request - Application ID 165539 (nCH1821237385)

Ms. Maxwell:

On behalf of ConocoPhillips, Tetra Tech is requesting a 90-day extension (until June 3, 2023) to complete the remedial action and associated closure reporting for the Mas Federal Com #002H Release site (**nCH1821237385**).

ConocoPhillips recently received a large volume of NMOCD determinations related to unresolved releases from ConocoPhillips' predecessor-in-interest ("COG") via the *Internal Manual Incident File Supporting Documentation (ENV)* (IM-BNF) process.

Given the difficulties inherent with available resource allocation for several projects with similar deadlines within a short period of time, this schedule is not currently practical. ConocoPhillips plans to conduct remediation in the coming month however, and once the confirmation sampling data is collected, tabulated, and evaluated, a closure report will be submitted to the OCD.

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

Sam

Samantha Abbott, PG | Project Manager

Direct Mobile +1 (512) 739-7874 | Business +1 (512) 338-1667 | Sam.Abbott@tetrattech.com

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Poole, Nicholas

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Tuesday, May 16, 2023 11:50 AM
To: Poole, Nicholas; Maxwell, Ashley, EMNRD
Cc: Chavira, Lisbeth; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] Incident ID: nCH1821237385- Confirmation Sampling

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Nicholas,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion 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](http://www.emnrd.nm.gov)



From: Poole, Nicholas <NICHOLAS.POOLE@tetrattech.com>
Sent: Monday, May 15, 2023 3:54 PM
To: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Cc: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Chavira, Lisbeth <LISBETH.CHAVIRA@tetrattech.com>
Subject: [EXTERNAL] Incident ID: nCH1821237385- Confirmation Sampling

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Incident ID (n#) **nCH1821237385** (Mas Federal Com #002H)

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, May 16, 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 conducted at this site Wednesday, May 17, 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: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Sent: Monday, May 15, 2023 4:58 PM
To: Poole, Nicholas
Cc: Enviro, OCD, EMNRD; Chavira, Lisbeth
Subject: RE: [EXTERNAL] Incident ID: nCH1821237385- Confirmation Sampling

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Thank you for the notification. Please include all sampling notification correspondence in your final report.

Thanks,
Ashley

Ashley Maxwell • Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.635.5000 | Ashley.Maxwell@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Poole, Nicholas <NICHOLAS.POOLE@tetrattech.com>
Sent: Monday, May 15, 2023 3:54 PM
To: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Cc: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Chavira, Lisbeth <LISBETH.CHAVIRA@tetrattech.com>
Subject: [EXTERNAL] Incident ID: nCH1821237385- Confirmation Sampling

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

Incident ID (n#) **nCH1821237385** (Mas Federal Com #002H)

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, May 16, 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 conducted at this site Wednesday, May 17, 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

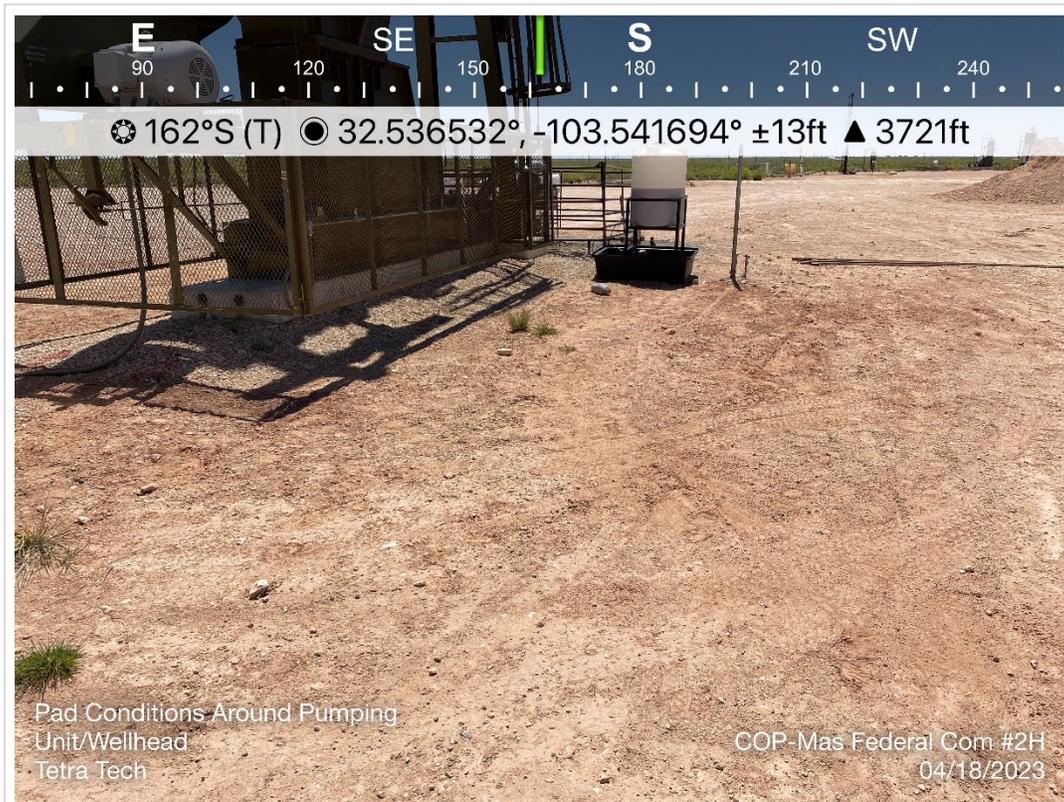
Photographic Documentation



TETRA TECH, INC. PROJECT NO. 212C-MD-03069	DESCRIPTION	View west. Site signage.	1
	SITE NAME	Mas Federal Com #002H Release	4/18/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03069	DESCRIPTION	View west northwest. View of wellhead and approximate release area.	2
	SITE NAME	Mas Federal Com #002H Release	4/18/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03069	DESCRIPTION	View southeast. Approximate release area. Pumping unit equipment.	3
	SITE NAME	Mas Federal Com #002H Release	4/18/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03069	DESCRIPTION	View southeast. View of pad conditions, approximate release area.	4
	SITE NAME	Mas Federal Com #002H Release	4/18/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03069	DESCRIPTION	View east. Excavation area marked.	5
	SITE NAME	Mas Federal Com #002H Release	5/16/2023



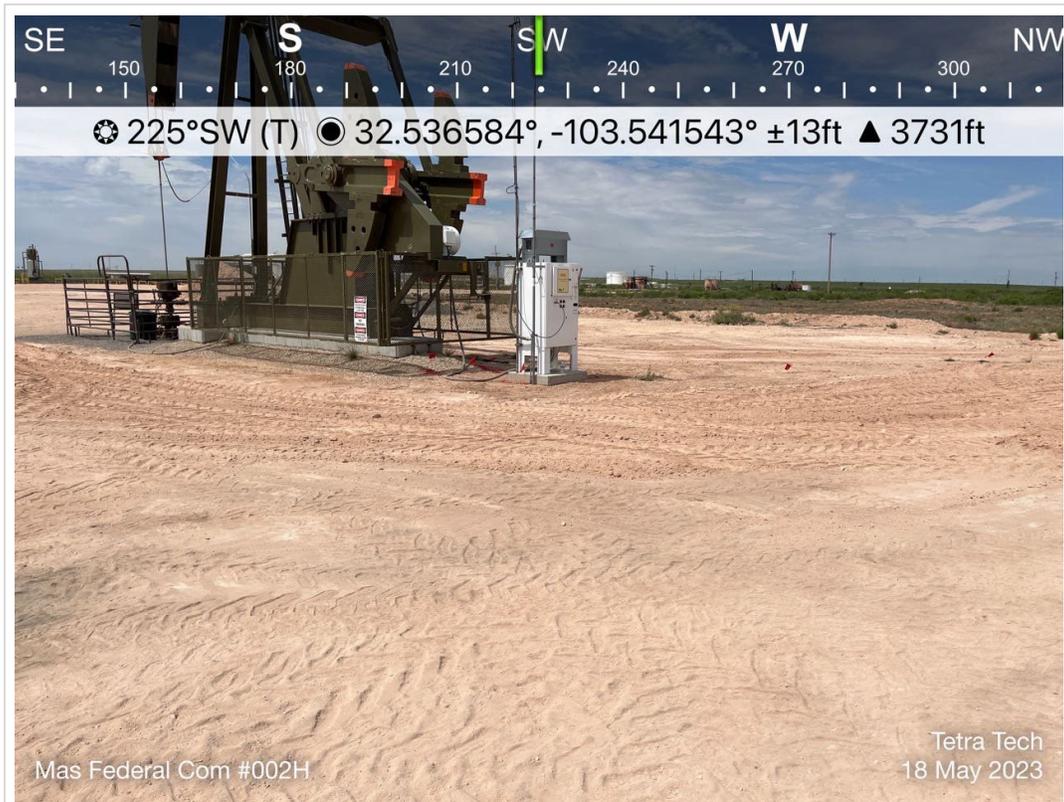
TETRA TECH, INC. PROJECT NO. 212C-MD-03069	DESCRIPTION	View northwest. Excavation activities depicted.	6
	SITE NAME	Mas Federal Com #002H Release	5/17/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03069	DESCRIPTION	View west. Excavation activities depicted.	7
	SITE NAME	Mas Federal Com #002H Release	5/17/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03069	DESCRIPTION	View northwest. Excavation activities depicted.	8
	SITE NAME	Mas Federal Com #002H Release	5/17/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03069	DESCRIPTION	View southwest. Backfill completed following excavation.	9
	SITE NAME	Mas Federal Com #002H Release	5/18/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03069	DESCRIPTION	View west. Backfill completed following excavation.	10
	SITE NAME	Mas Federal Com #002H Release	5/18/2023

APPENDIX E

Waste Manifests



Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: IKE TAVAREZ
 AFE #:
 PO #:
 Manifest #: 01
 Manif. Date: 5/16/2023
 Hauler: MCNABB PARTNERS LLC
 Driver: JOEL
 Truck #: M33
 Card #
 Job Ref #

Ticket #: 700-1430723
 Bid #: O6UJ9A000JEC
 Date: 5/16/2023
 Generator: CONOCOPHILLIPS
 Generator #: 40946
 Well Ser. #: 44214
 Well Name: MAS FEDERAL COM
 Well #: 002H
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Permian Basin

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	14.00 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 #: 02
 Manif. Date: 5/16/2023
 Hauler: MCNABB PARTNERS LLC
 Driver: JR
 Truck #: M76
 Card #
 Job Ref #

Ticket #: 700-1430725
 Bid #: O6UJ9A000JEC
 Date: 5/16/2023
 Generator: CONOCOPHILLIPS
 Generator #: 40946
 Well Ser. #: 44214
 Well Name: MAS FEDERAL COM
 Well #: 002H
 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):
- MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

Driver/ Agent Signature _____ **R360 Representative Signature** _____

[Handwritten Signature]

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____ Date: _____



Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: ANDRES GARCIA
 AFE #:
 PO #:
 Manifest #: 03
 Manif. Date: 5/16/2023
 Hauler: MCNABB PARTNERS LLC
 Driver: JOEL
 Truck #: M33
 Card #
 Job Ref #

Ticket #: 700-1430785
 Bid #: O6UJ9A000JEC
 Date: 5/16/2023
 Generator: CONOCOPHILLIPS
 Generator #: 40946
 Well Ser. #: 44214
 Well Name: MAS FEDERAL COM
 Well #: 002H
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Permian Basin

Facility: CRI

Product / Service	Quantity Units
-------------------	----------------

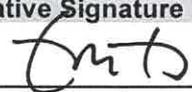
Contaminated Soil (RCRA Exempt)	14.00 yards
---------------------------------	-------------

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: ANDRES GARCIA
 AFE #:
 PO #:
 Manifest #: 04
 Manif. Date: 5/16/2023
 Hauler: MCNABB PARTNERS LLC
 Driver: JR
 Truck #: M76
 Card #
 Job Ref #

Ticket #: 700-1430798
 Bid #: O6UJ9A000JEC
 Date: 5/16/2023
 Generator: CONOCOPHILLIPS
 Generator #: 40946
 Well Ser. #: 44214
 Well Name: MAS FEDERAL COM
 Well #: 002H
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

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

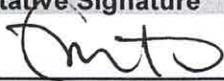
Generator Certification Statement of Waste Status

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: ANDRES GARCIA
 AFE #:
 PO #:
 Manifest #: 05
 Manif. Date: 5/16/2023
 Hauler: MCNABB PARTNERS LLC
 Driver: JOEL
 Truck #: M33
 Card #
 Job Ref #

Ticket #: 700-1430836
 Bid #: O6UJ9A000JEC
 Date: 5/16/2023
 Generator: CONOCOPHILLIPS
 Generator #: 40946
 Well Ser. #: 44214
 Well Name: MAS FEDERAL COM
 Well #: 002H
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Permian Basin

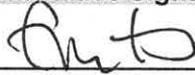
Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	14.00 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: ANDRES GARCIA
 AFE #:
 PO #:
 Manifest #: 06
 Manif. Date: 5/16/2023
 Hauler: MCNABB PARTNERS LLC
 Driver: JR
 Truck #: M76
 Card #
 Job Ref #

Ticket #: 700-1430846
 Bid #: O6UJ9A000JEC
 Date: 5/16/2023
 Generator: CONOCOPHILLIPS
 Generator #: 40946
 Well Ser. #: 44214
 Well Name: MAS FEDERAL COM
 Well #: 002H
 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: ANDREW GARCIA
 AFE #:
 PO #:
 Manifest #: 07
 Manif. Date: 5/16/2023
 Hauler: MCNABB PARTNERS LLC
 Driver: JOEL
 Truck #: M33
 Card #
 Job Ref #

Ticket #: 700-1430875
 Bid #: O6UJ9A000JEC
 Date: 5/16/2023
 Generator: CONOCOPHILLIPS
 Generator #: 40946
 Well Ser. #: 44214
 Well Name: MAS FEDERAL COM
 Well #: 002H
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Permian Basin

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	14.00 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 Emt

Customer Approval _____

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: ANDREW GARCIA
 AFE #:
 PO #:
 Manifest #: 08
 Manif. Date: 5/17/2023
 Hauler: MCNABB PARTNERS
 Driver: JR
 Truck #: M76
 Card #
 Job Ref #

Ticket #: 700-1431153
 Bid #: O6UJ9A000JEC
 Date: 5/17/2023
 Generator: CONOCOPHILLIPS
 Generator #: 40946
 Well Ser. #: 44214
 Well Name: MAS FEDERAL COM
 Well #: 002H
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

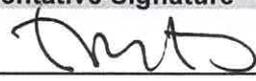
Facility: CRI

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 #: 09
 Manif. Date: 5/17/2023
 Hauler: MCNABB PARTNERS LLC
 Driver: JR
 Truck #: M76
 Card #
 Job Ref #

Ticket #: 700-1431206
 Bid #: O6UJ9A000JEC
 Date: 5/17/2023
 Generator: CONOCOPHILLIPS
 Generator #: 40946
 Well Ser. #: 44214
 Well Name: MAS FEDERAL COM
 Well #: 002H
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
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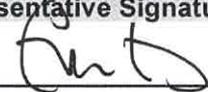
Contaminated Soil (RCRA Exempt)	20.00 yards 18
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Generator Certification Statement of Waste Status

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

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Approved By: _____

Date: _____

APPENDIX F

Laboratory Analytical Data



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

May 17, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MAS FEDERAL COM #002H

Enclosed are the results of analyses for samples received by the laboratory on 05/16/23 16:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	MAS FEDERAL COM #002H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-03069	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM		

Sample ID: NSW - 1 (H232458-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	128	16.0	05/17/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	161	80.4	200	2.08		
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	184	92.0	200	1.05		
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND						

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 170 % 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:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	MAS FEDERAL COM #002H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-03069	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM		

Sample ID: ESW - 1 (H232458-02)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/17/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	161	80.4	200	2.08		
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	184	92.0	200	1.05		
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND						

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 169 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	MAS FEDERAL COM #002H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-03069	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM		

Sample ID: SSW - 1 (H232458-03)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	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	80.0	16.0	05/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	161	80.4	200	2.08		
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	184	92.0	200	1.05		
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND						

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 166 % 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:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	MAS FEDERAL COM #002H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-03069	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM		

Sample ID: SSW - 2 (H232458-04)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	161	80.4	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	184	92.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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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:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	MAS FEDERAL COM #002H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-03069	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM		

Sample ID: WSW - 1 (H232458-05)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	161	80.4	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	184	92.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 143 % 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:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	MAS FEDERAL COM #002H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-03069	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM		

Sample ID: FS - 1 (H232458-06)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	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	272	16.0	05/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	161	80.4	200	2.08		
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	184	92.0	200	1.05		
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND						

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 160 % 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:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	MAS FEDERAL COM #002H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-03069	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM		

Sample ID: FS - 2 (H232458-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2023	ND	2.34	117	2.00	1.26	
Toluene*	<0.050	0.050	05/17/2023	ND	2.32	116	2.00	0.571	
Ethylbenzene*	<0.050	0.050	05/17/2023	ND	2.25	113	2.00	1.59	
Total Xylenes*	<0.150	0.150	05/17/2023	ND	6.87	114	6.00	2.27	
Total BTEX	<0.300	0.300	05/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	256	16.0	05/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	196	98.2	200	5.20	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	183	91.4	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 65.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.5 % 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:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	MAS FEDERAL COM #002H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-03069	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM		

Sample ID: FS - 3 (H232458-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2023	ND	2.34	117	2.00	1.26	
Toluene*	<0.050	0.050	05/17/2023	ND	2.32	116	2.00	0.571	
Ethylbenzene*	<0.050	0.050	05/17/2023	ND	2.25	113	2.00	1.59	
Total Xylenes*	<0.150	0.150	05/17/2023	ND	6.87	114	6.00	2.27	
Total BTEX	<0.300	0.300	05/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	256	16.0	05/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	196	98.2	200	5.20	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	183	91.4	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.0 % 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:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	MAS FEDERAL COM #002H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-03069	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM		

Sample ID: FS - 4 (H232458-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2023	ND	2.34	117	2.00	1.26	
Toluene*	<0.050	0.050	05/17/2023	ND	2.32	116	2.00	0.571	
Ethylbenzene*	<0.050	0.050	05/17/2023	ND	2.25	113	2.00	1.59	
Total Xylenes*	<0.150	0.150	05/17/2023	ND	6.87	114	6.00	2.27	
Total BTEX	<0.300	0.300	05/17/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	196	98.2	200	5.20	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	183	91.4	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.0 % 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:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	MAS FEDERAL COM #002H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-03069	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM		

Sample ID: FS - 5 (H232458-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2023	ND	2.34	117	2.00	1.26	
Toluene*	<0.050	0.050	05/17/2023	ND	2.32	116	2.00	0.571	
Ethylbenzene*	<0.050	0.050	05/17/2023	ND	2.25	113	2.00	1.59	
Total Xylenes*	<0.150	0.150	05/17/2023	ND	6.87	114	6.00	2.27	
Total BTEX	<0.300	0.300	05/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	05/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	196	98.2	200	5.20	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	183	91.4	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 76.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.8 % 49.1-148

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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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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 1

Company Name: Conoco Phillips Project Manager: Christian Luvu Address: City: State: Zip: Phone #: Fax #: Project #: 212-ND-03069 Project Owner: Project Name: Mas Federal Com #302H Project Location: Lea Co, NM Sampler Name: Andrew Garcia <small>FOR LAB USE ONLY</small>		P.O. #: Company: Tetra Tech Attn: Christian Luvu Address: City: State: Zip: Phone #: Fax #: Project #:	
Lab I.D. H033458 Sample I.D.		BILL TO	
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.		ANALYSIS REQUEST	
Relinquished By: Andrew Garcia Date: 6/15/23 Time: 11:15 Received By: [Signature] Date: 6/15/23 Time:		(G)RAB OR (C)OMP. # CONTAINERS MATRIX: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER: PRESERV: ACID/BASE, ICE / COOL, OTHER: SAMPLING: DATE, TIME	
Delivered By: (Circle One) Observed Temp. °C 11.4 Sampler - UPS - Bus - Other: Corrected Temp. °C 10.8 Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked By: (Initials) [Signature]		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: REMARKS: Nicholas. Poole@TetraTech.com Christian.Luvu@TetraTech.com Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Thermometer ID #113 Correction Factor -0.6°C 24 HR Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Sample Condition Observed Temp. °C Corrected Temp. °C	
1 NSW-1 6 1 2 ESW-1 X 3 SSW-1 4 SSW-2 5 WSW-1 6 FS-1 7 FS-2 8 FS-3 9 FS-4 10 FS-5		X Chlorides 4500 X BTEX X TPH	

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

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 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 225247

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 225247
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	6/8/2023