

March 25, 2024

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

Re: Release Characterization and Remediation Work Plan ConocoPhillips (Heritage COG Operating LLC) On behalf of Spur Energy Partners, LLC (328947) Folk Federal #002 Release Unit Letter H, Section 17, Township 17 South, Range 29 East Eddy County, New Mexico Incident ID NAB1630550256

Ms. Hall:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (COP) to assess a historical COG Operating, LLC (COG) release that occurred at the Folk Federal #002 (API # 30-015-20198). The release footprint is located in Public Land Survey System (PLSS) Unit Letter H, Section 17, Township 17 South, Range 29 East, in Eddy County, New Mexico (Site). The approximate release point occurred at coordinates 32.8361122°, -104.090549°, as shown on Figures 1 and 2.

#### **BACKGROUND**

According to the State of New Mexico C-141 Initial Report, the release was discovered on October 14, 2016. The release was caused by a hole in the bottom of the oil tank, this resulted in a release of approximately 18 barrels (bbls) of oil, of which 16 bbls were recovered. Vacuum trucks were immediately dispatched to recover all standing fluid. This release occurred and remained within the bermed area of the facility. The contaminated gravel has been removed and replaced with fresh gravel. The NMOCD approved the initial C-141 on October 26, 2016, and subsequently assigned the release the Incident ID NAB1630550256. The initial C-141 form is included in Appendix A.

This incident is included in an Agreed Compliance Order-Releases (ACO-R) between COG Operating LLC (Concho) and the NMOCD signed on November 20 and 26, 2018, respectively.

#### **LAND OWNERSHIP**

According to the NMOCD Oil and Gas Map, the Site is located on land owned by the Bureau of Land Management (BLM). The BLM approved access to the Site for drilling a groundwater determination boring and additional activities on January 2, 2024. Regulatory correspondence is included in Appendix B.

#### SITE CHARACTERIZATION

A contemporaneous site characterization was performed in accordance with 19.15.29.11 New Mexico State Administrative Code (NMAC) and the guidance document Process Updates re: Submissions of Form C-141 Release Notification and Corrective Actions (12/01/2023).

Tetra Tech

901 West Wall St., Suite 100, Midland, TX 79701
Tel 432.682.4559 Fax 432.682.3946 www.tetratech.com

ConocoPhillips

A summary of the site characterization is presented below
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Shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (feet bgs)	>105 feet bgs
Method used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water?	No
What is the minimum distance between the closest lateral extents of the release and	the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Greater than 5 miles
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	1.03 miles
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 miles
A spring or private domestic fresh water well used by less than five households for domestic or stock watering purposes	1.86 miles
Any other fresh water well or spring	>5 miles
Incorporated municipal boundaries or a defined municipal fresh water well field	>5 miles
A wetland	1.03 miles
A subsurface mine	Greater than 5 miles
A (non-karst) unstable area	Greater than 5 miles
Categorized risk of this well / site being in a karst geology	High
A 100-year floodplain	1.02 miles
Did the release impact areas not on an exploration, development, production, or storage site?	No

There are no 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. The nearest well with recent groundwater data is located approximately 1.86 miles from the Site with a depth to water of 76 feet below ground surface (bgs). The site characterization data are presented in Appendix C.

#### **DTW DETERMINATION**

As the available water level information is from a well farther than ½-mile away from the site and based on NMOCD guidance, ConocoPhillips elected to drill a boring to verify depth to groundwater. The proposed location of the depth to groundwater boring is located on Bureau of Land Management (BLM) lands. Tetra Tech contacted Shelly Tucker of the BLM via email to obtain approval of the location. An Application for Permit to Drill (WD-07) was submitted to the NMOSE on December 18, 2023. Approval was granted by the NMOSE on January 10, 2024 (RA-13407-POD1); a copy of the approved permit is included in Appendix B.

On February 5, 2024, ConocoPhillips contracted a licensed well drilling subcontractor to drill a groundwater determination borehole (DTW) to 105 feet bgs east of the pad. The borehole was temporarily set and screened using 2-inch PVC well materials. No water was present in the well during or after drilling. The well screen and casing were removed, and the borehole was plugged with 3/8-inch bentonite chips. The borehole coordinates are 32.836350°, -104.090378° and the boring location is indicated in Figure 3. The site characterization data, boring log, and temporary well diagram are included in Appendix C.

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#### 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 (high karst potential) and in accordance with Table I of 19.15.29.12 NMAC, the RRALs for the Site are as follows:

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

#### HISTORICAL ASSESSMENT AND REPORTING

The battery facility has one previous assessment event for an associated release within the firewall. Tetra Tech conducted initial site assessment activities on behalf of COG Operating LLC (COG) in 2009. Tetra Tech installed hand augers inside the facility firewalls, however only one (1) sample was collected from the surface interval of 0-1' as deeper samples could not be obtained due to the shallow dense formation at the site.

#### **MARCH 2017 DEFERMENT REPORT**

On January 26, 2017, Tetra Tech personnel were onsite to inspect the release area for access and safety concerns for assessment associated with the NAB1630550256 release. Based on the inspection, it was determined that backhoe trenches or boreholes could not be installed due to access issues with the facility equipment and active lines located inside and outside the facility firewalls. Due to access issues and limited hydrocarbon impact, COG proposed to defer the spill area until abandonment, however, the top six inches of the release area were proposed to be hand excavated to remove the heavily impacted soils. The area would then be treated by adding a Micro-Blaze product to remediate the hydrocarbon impact to the soils.

Tetra Tech prepared a Deferral Report dated March 9, 2017, which was submitted to the NMOCD via email on March 10, 2017. The Deferral was rejected by Mike Bratcher of the NMOCD via email on March 14, 2017. The reason for the rejection were as follows:

• At this time, your request for deferment is <u>not</u> approved. OCD does approve the proposal to remove 6" of impacted material in the affected area. For deferral consideration. OCD requests the removal of impacted material to the extent practicable, and delineation to the extent practicable. Please obtain samples after the excavation event, as practicable, for documentation. Microblaze application may then be applied and the site considered for deferment.

A copy of the Deferral Report is available in the NMOCD online incident files. A copy of the regulatory correspondence is included in Appendix B.

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#### **JUNE 2017 REVISED DEFERMENT REPORT**

In June 2017, COG conducted remedial activities at the site that consisted of excavation and removal of the top six inches of impacted soils. Deeper excavation could not be performed due to the dense subsurface formation encountered at depth.

On June 7, 2017, Tetra Tech was on site to collect soil samples from the release area. Seven (7) sample locations were installed to a maximum depth of 6" bgs. A total of seven (7) samples were collected from the sample locations and sent to Xenco Laboratories in Midland, Texas to be analyzed for TPH via EPA Method 8015M and BTEX via EPA Method 8021B. Sample locations are presented in Figure 3

Analytical results from the June 2017 assessment activities are summarized in Table 1. All analytical results exceeded the TPH RRAL of 100 mg/kg. Analytical results were exceeding the BTEX RRAL of 10 mg/kg at SP-4, SP-6 and SP-7.

On behalf of COG, Tetra Tech prepared a Revised Deferment Report dated June 26, 2017, that summarized the assessment and remedial activities and requested the impact or release be deferred until abandonment as numerous underground and above ground lines, as well as equipment inside and outside the battery pose safety and access issues for sampling or remediation of soils.

The NMOCD responded to the 2017 Revised Deferment Report via email on October 16, 2017, with the following comments:

After a review of the proposal to defer the above referenced release, based on analytical data and
potential relatively shallow depth to ground water, OCD requests a boring be installed, as close to
the impacted area as possible, to determine actual depth to ground water at this site. Water quality
and a determination of impact may be required. Please advise once this activity has been
scheduled.

A copy of the 2017 Report is available in the NMOCD online incident files. A copy of the regulatory correspondence is included in Appendix B.

#### **FEBRUARY 2018 REVISED DEFERMENT REPORT**

Based on the NMOCD's rejection and ensuing request, Tetra Tech re-evaluated the access at the site and was able to determine one area in the vicinity of the footprint that was accessible to the drilling rig. The earthen berm was removed to allow drilling of one borehole for vertical delineation on the eastern side of the battery facility.

On December 20, 2017, Tetra Tech was onsite to supervise the installation of one borehole (BH-1) to attempt to attain vertical delineation of the release area footprint. Based on site access, production equipment and site hazards, one borehole was installed roughly between the former locations of SP-1 and SP-2. Selected samples were analyzed for TPH analysis by EPA method 8015 modified and BTEX by EPA Method 8021B. C The borehole location is indicated on Figure 4. The sampling results were summarized and included in the February 2018 revised report.

Based on the results of the additional drilling activities, a Revised Deferment Report was completed by Tetra Tech and submitted to NMOCD, on behalf of COG, via email in 2018. The February 2018 Revised Deferment had not been approved nor rejected by the NMOCD. Therefore, the report was resubmitted via the NMOCD Fee Application Portal. On September 28, 2023, the NMOCD rejected the Revised Deferment via email (Appendix B). The following comments were included in the email:

 Application submitted under incorrect operator OGRID. A C-145 was submitted and approved by the OCD for a change in operator for this site on 12/2/2019. Spur Energy Partners, LLC (328947) is the current operator this application was submitted under COG Operating LLC (229137). Previous submissions for this release have been reviewed. Deferral of the contamination have been denied by the OCD on 3/14/2017 and 10/16/2017. Based on these denials and the transitional

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provisions that can be found in 19.15.29.16 NMAC, this release will need to meet all the requirements of 19.15.29 NMAC (effective 8/14/2018). The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater. Deferral is denied. The release is not fully delineated. Per 19.15.29.12 C. (2) NMAC "...The deferral may be granted so long as the contamination is fully delineated and does not cause an imminent risk to human health, the environment, or ground water. Final remediation and reclamation shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations." Horizontal and vertical delineation will need to be completed before a deferral is approved. Submit a complete report through the OCD Permitting website by 12/29/2023.

#### **C-145 CHANGE IN OPERATOR**

Spur Energy Partners, LLC (328947) acquired select properties formerly operated by COG Operating LLC (229137). However, COG retained some of the environmental liabilities and most of the acquired locations are Agreed Compliance Order ("ACO") sites. The Folk Federal #002 Release (NAB1630550256) is such a site, and is included in an ACO with the NMOCD, related to unresolved releases from ConocoPhillips's predecessor-in-interest ("COG"). A C-145 was submitted and approved by the OCD for a change in operator from COG to Spur.

#### 2023 ADDITIONAL SITE ASSESSMENT AND SAMPLING RESULTS

Tetra Tech conducted additional assessment sampling at the Site on behalf of COP to evaluate current conditions within and around the release footprint and assess remaining concentration levels in soil. On December 19-20, 2023, Tetra Tech oversaw the installation of four (4) hand auger borings (HA-1 through HA-5) to 0-1' bgs around the approximate release extent to obtain horizontal delineation. One additional trench was installed (T-1) to 2.25' bgs within the earthen berm in an accessible area of the release footprint to obtain vertical delineation. The mini-excavator met refusal at approximately 2-2.25 feet bgs. The additional sampling locations are indicated in Figure 5.

A total of ten (10) soil samples were collected from the five hand auger borings and trench location and sent to Cardinal Laboratories in Hobbs, NM to be analyzed for chloride via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8261B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix D.

Analytical results from the December 2023 soil sampling event are summarized in Table 2. Analytical results associated with trench location T-1 exceeded the RRAL of 100 mg/kg TPH down to 2' bgs. All other analytical results were below the chloride, TPH, benzene and Total BTEX reclamation requirements of 600 mg/kg, 100 mg/kg, 10 mg/kg and 50 mg/kg, respectively. Vertical delineation was achieved. The release extent observed by Tetra Tech and sample locations are presented in Figure 5.

#### **REMEDIATION WORK PLAN**

Based on ongoing correspondence with Spur EHS Manager Braidy Moulder, this battery facility is scheduled for decommissioning in March 2024. Thus, prior to beginning remedial action proposed below, the tank battery and related production equipment will have been removed from the release area footprint.

Based on the analytical results, COP proposes to remove the remaining impacted material as shown in Figure 6. Impacted soils will be excavated to a maximum depth of 2 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation is below the Site RRALs. Heavy equipment (backhoe and track hoe) will be utilized to excavate areas outside the immediate vicinity of pressurized lines and will come no more than 4 feet from any pressurized lines.

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Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation bottom and sidewall samples will be collected for verification of remedial activities, and analyzed for TPH, BTEX, and chlorides. In accordance with subsection D of 19.15.29.12 NMAC, the responsible party will notify the appropriate division district office prior to conducting confirmation sampling. The estimated volume of material to be remediated is approximately 226 cubic yards.

#### **CONFIRMATION SAMPLING PLAN**

In accordance with 19.15.29.12(D)(1)© NMAC, confirmation samples will be collected to adhere with NMOCD requirements. Eight (8) confirmation floor sample and four (4) confirmation sidewall samples will be collected for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 3049 square feet.

These confirmation sidewall and floor samples will be representative of no more than approximately 400 square feet of excavated area. Confirmation samples will be sent to an accredited analytical laboratory for analysis of chloride, TPH, and BTEX. Once acceptable results are received, the excavation will then be backfilled with clean material to surface grade.

#### SITE RECLAMATION PLAN

In summary, in accordance with 19.15.29.13 NMAC, all areas disturbed by the remediation will be reclaimed. Collected confirmation samples will placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed within appropriate holding times by an accredited laboratory. The soil samples will be analyzed for TPH (GRO+DRO+MRO) by EPA Method 8015M, BTEX by EPA Method 8021B, and chlorides by SM4500Cl-B.

In accordance with 19.15.29.12 NMAC, the reclaimed area will contain non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by SM4500Cl-B in the upper 4' feet. Photographs will include pictures of the top layer, which is one foot of suitable material to establish vegetation at the site.

Once acceptable confirmation sample results are received, the excavation will be backfilled with clean material to pre-release grade. The backfilled areas in the pasture will be seeded to aid in revegetation. Based on the soils of the site the BLM seed mixture for LPC Sand/Shinnery Sites and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

Site inspections will be performed annually to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the BLM will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. The BLM seed mixture details in corresponding pounds per live seed per acre are included in Appendix F.

#### CONCLUSION

ConocoPhillips proposes to begin remediation activities at the Site within 120 days of NMOCD and NMSLO plan approval. Upon completion of the proposed work, a final closure report detailing the remediation and reclamation activities and the results of the confirmation sampling will be submitted to both NMOCD and NMSLO.

ConocoPhillips

If you have any questions concerning the soil assessment or the proposed remedial activities for the Site, please call me at (512) 560-9064 or Christian at (512) 338-2861.

Sincerely,

Tetra Tech, Inc.

Nicholas M. Poole Project Lead

CC

Mr. Ike Tavarez, PBU – RMR Program Manager Mr. Braidy Moulder, Spur Energy Partners – EHS Manager Christian M. Llull, P.G. Program Manager

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#### **LIST OF ATTACHMENTS**

#### Figures:

Figure 1 – Overview Map

Figure 2 – Topographic Map

Figure 3 – Depth-To-Water Boring Location

Figure 4 – Approximate Release Extent and Initial Response

Figure 5 – Additional Site Assessment (2023)

Figure 6 – Proposed Remediation Extent

Figure 7 – Alternative Confirmation Sampling Plan

#### Tables:

Table 1 – Summary of Analytical Results – 2017 Soil Assessment

Table 2 – Summary of Analytical Results – 2023 Soil Assessment

#### Appendices:

Appendix A – C-141 Forms

Appendix B - Regulatory Correspondence

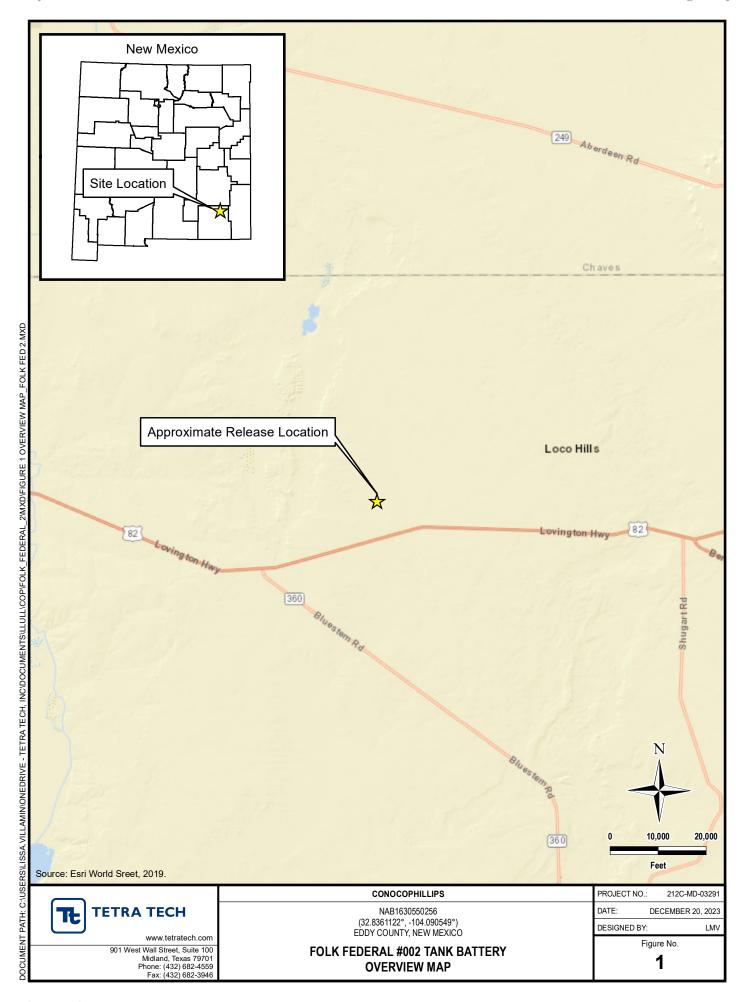
Appendix C – Site Characterization Data

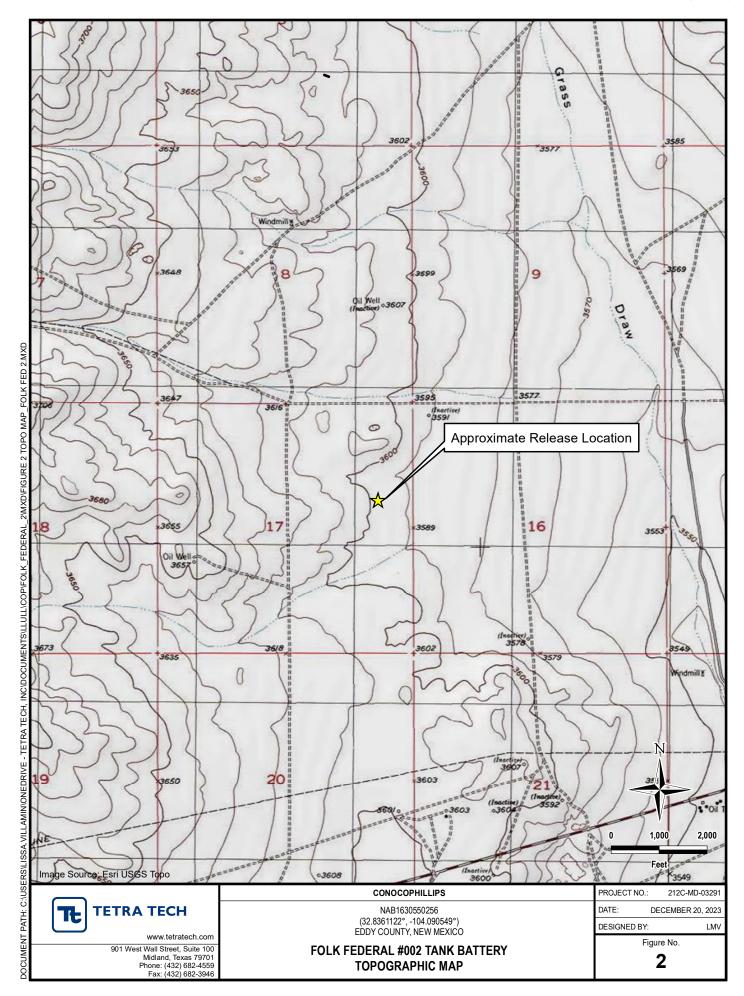
Appendix D - Laboratory Analytical Data

Appendix E – Photographic Documentation

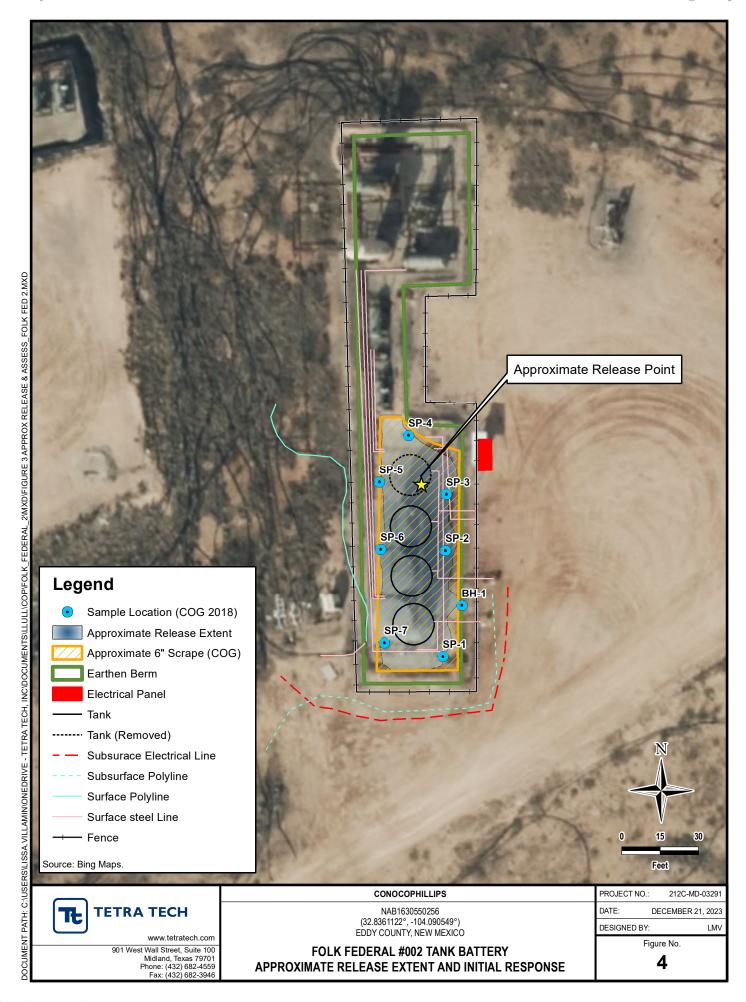
Appendix F - BLM Seed Mixture Details

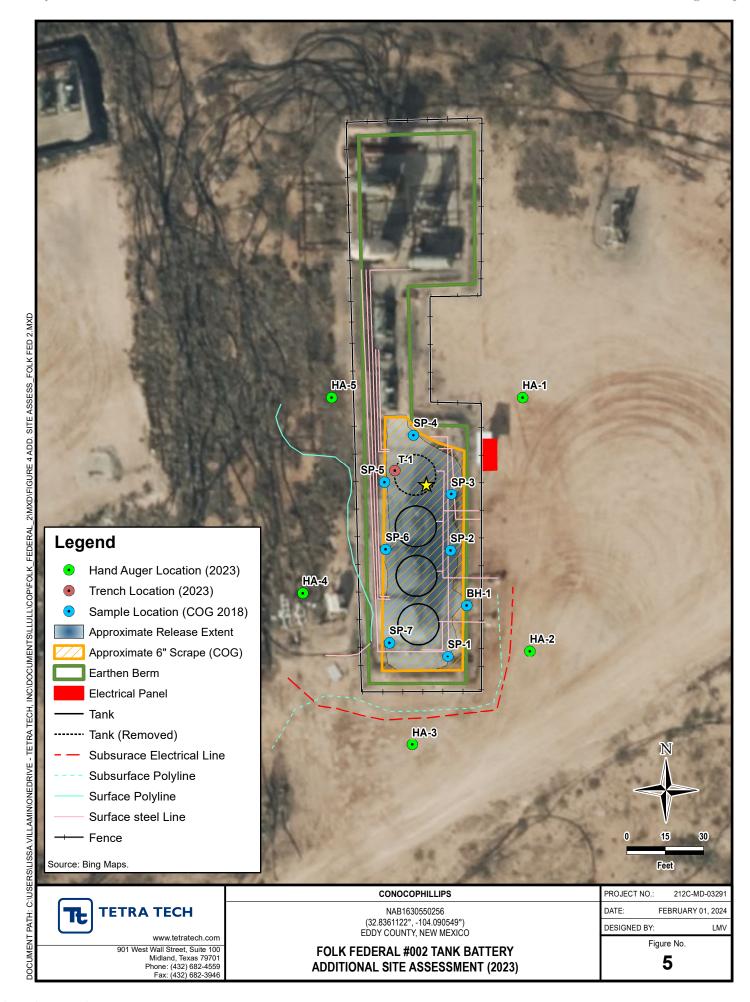
# **FIGURES**

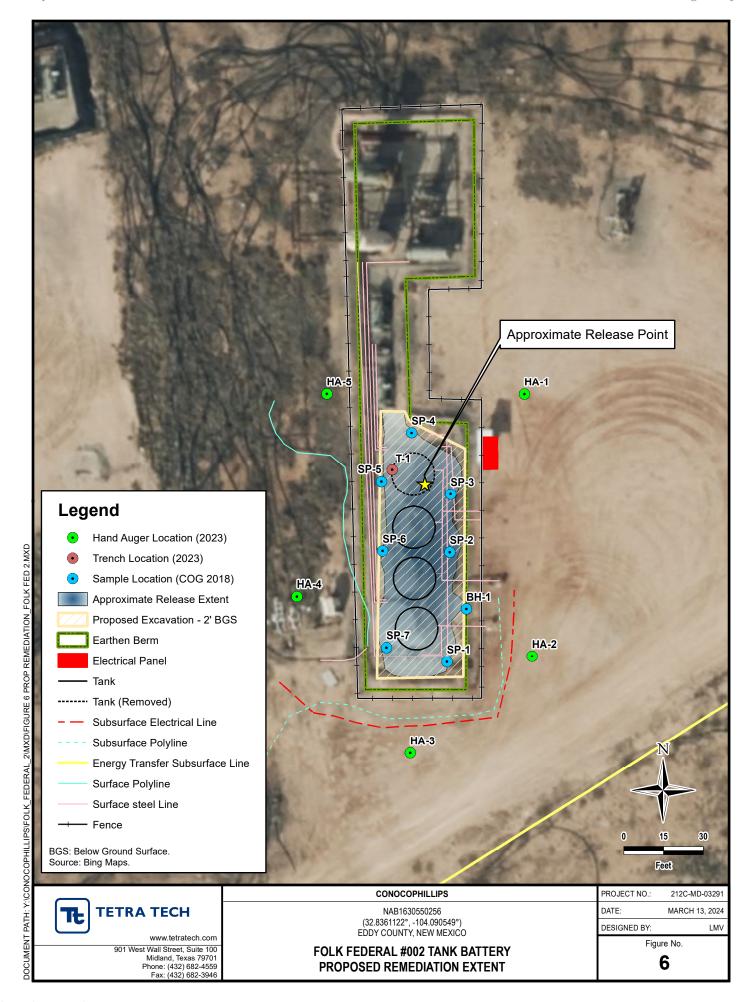












# **TABLES**

# TABLE 1 SUMMARY OF ANALYTICAL RESULTS 2017 SOIL ASSESSMENT - NAB1630550256 CONOCOPHILLIPS FOLK FEDERAL #002

	EDDY COUNTY, NM																		
				BTEX <sup>2</sup>									TPH <sup>3</sup>						
Sample ID	Sample Date	Sample Depth	Benzei	20	Toluer		Ethylben	7000	Xylen	•	Total B	TEV	GRO		DRO		EXT DE	RO	Total TPH
Sample 1D	Sample Date		Delize	ile	Toluei	ie	Ethylben	zene	Ayleli	e	Total B	IEA	C <sub>6</sub> - C	10	> C <sub>10</sub> -	C <sub>28</sub>	> C <sub>28</sub> - (	C <sub>36</sub>	(GRO+DRO+EXT DRO)
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
SP-1	6/7/2017	0-0.5	<0.00372		<0.00372		<0.00372		<0.00372		<0.00372		379		3,350		355		4,080
SP-2	6/7/2017	0-0.3	<0.00356		<0.00356		0.00731		0.00772		0.015		349		4,840		533		5,720
SP-3	6/7/2017	0-0.3	<0.00380		<0.00380		0.0428		0.0438		0.0866		501		4,810		504		5,820
SP-4	6/7/2017	0-0.3	0.404		1.01		25.6		78.2		105		1,280		4,520		363		6,160
SP-5	6/7/2017	0-0.3	<0.00389		<0.00389		<0.00389		<0.00389		<0.00389		215		2,900		283		3,400
SP-6	6/7/2017	0-0.5	7.69		59.2		93.4		344		504		6,410		7,520		952		14,900
SP-7	6/7/2017	0-0.5	7.69		99.3		111		203		421		4,450		5,330		607		10,400
		0-1	<0.00199		<0.00199		<0.00199		<0.00199		<0.00199		<15.0		<15.0		<15.0		<15.0
BH-1	12/20/2017	2-3	<0.00198		<0.00198		<0.00198		<0.00198		<0.00198		<15.0		<15.0		<15.0		<15.0
		4-5	<0.00201		<0.00201		<0.00201		<0.00201		<0.00201		<15.0		<15.0		<15.0		<15.0

NOTES:

ft. Feet

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

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

Method 8021B

2 Method 8015M

#### TABLE 2

#### SUMMARY OF ANALYTICAL RESULTS 2023 SOIL ASSESSMENT - NAB1630550256

#### CONOCOPHILLIPS FOLK FEDERAL #002 EDDY COUNTY, NM

			Field Screen	ing Poculte			BTEX <sup>2</sup>									TPH <sup>3</sup>							
Sample ID	Sample Date	Sample Depth	rieia screen	ing Kesuits	Chlorid	le¹	Benzer		Toluer		Ethylber	zono	Total Xyl	onor	Total B	TEV	GRO		DRO	)	EXT DE	RO .	Total TPH
	Sample Date		Chloride	PID			benzer	ie	Toluer	ie	Ethylben	zene	TOTAL AND	enes	TOTALD	IEA	C <sub>6</sub> - C <sub>1</sub>	10	> C <sub>10</sub> - 0	C <sub>28</sub>	> C <sub>28</sub> -	C <sub>36</sub>	(GRO+DRO+EXT DRO)
		ft. bgs	ррі	m	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
HA-1	12/19/2023	0-1	72.1		32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
HA-2	12/19/2023	0-1	69.7		32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
HA-3	12/19/2023	0-1	63.8		<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
HA-4	12/19/2023	0-1	65.2		<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		10.0		10.0
HA-5	12/19/2023	0-1	98		16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		22.7		17.0		39.7
		0-0.5			<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		1440	QM-07	732		2172
		0.5-1			32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		1270		585		1855
T-1	12/20/2023	1-1.5			32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		656		377		1033
		1.5-2			48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		458		242		700
		2-2.25			16.0		< 0.050		<0.050		< 0.050		<0.150		< 0.300		<10.0		68.9		21.9		90.8

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 SM4500CI-B

2 Method 8021B

3 Method 8015M

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

#### 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.

# **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.

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Form C-141 Revised August 8, 2011

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

### Santa Fe, NM 87505 Release Notification and Corrective Action

	OPERATOR		ıl Report		Final Report			
Name of Company: COG Operating LLC	Contact: Robert McNeill							
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-230-0077							
Facility Name: FOLK FEDERAL TANK BATTERY	Facility Type: Battery							
Surface Owner: Federal Mineral Owne	r: Federal	API No	30-015	5-2019	8			
LOCATIO	ON OF RELEASE							
Unit Letter Section Township Range Feet from the No L 17 17S 29E	rth/South Line   Feet from the   Eas	t/West Line		County Eddy	,			
	062 Longitude -104.090789	1		Ludy				
	E OF RELEASE							
Type of Release: Oil	Volume of Release:	Volume R	ecovered:					
	18 bbls of Oil	16 bbls of						
Source of Release: Hole in Tank	Date and Hour of Occurrence: 10/14/2016 unknown		Hour of Disc 6 12:00 PM					
Was Immediate Notice Given?	If YES, To Whom?	10/14/201	0 12.00 1 141					
☐ Yes ☐ No ☒ Not Require								
By Whom?	Date and Hour:							
Was a Watercourse Reached?	If YES, Volume Impacting the W	atercourse.						
☐ Yes ☒ No								
If a Watercourse was Impacted, Describe Fully.*								
Describe Cause of Problem and Remedial Action Taken.*	de como della constanta della contra				- 1.5			
This release was caused by a hole in the bottom of the oil tank. The tan were immediately dispatched to recover all standing fluid.	ik was taken out of service and the valv	es going to it	were closed.	. Vacui	ım trucks			
the similarity disparence to recover an stateming state.								
Describe Area Affected and Cleanup Action Taken.*  This release occurred and remained within the bermed area of the facili	ty. The contominated genual has been	comoved and	ما المعمل ساله	a Gazala a	masus!			
Concho will have the spill site sampled to delineate any possible contar	nination from the release and we will n	resent a remed	epiaced with diation work	a tresa g anlan to	the			
NMOCD for approval prior to any significant remediation work.				F 1000				
I hereby certify that the information given above is true and complete to	the best of my knowledge and unders	and that nurs	iant to NMC	CD rul	ec and			
regulations all operators are required to report and/or file certain release	notifications and perform corrective a	ctions for rele	ases which r	nay end	anger			
public health or the environment. The acceptance of a C-141 report by	the NMOCD marked as "Final Report"	does not relie	eve the opera	ator of li	iability			
should their operations have failed to adequately investigate and remedior the environment. In addition, NMOCD acceptance of a C-141 report	late contamination that pose a threat to	ground water,	surface wat	er, hum	an health			
federal, state, or local laws and/or regulations.	rudes not teneve the operator of respot	isionity for co	inpliance wi	iui any t	ottiei			
	OIL CONSER	VATION	DIVISIO	N				
Signature:		1		7				
Signature.	Approved by Environmental Special	//	/	,				
Printed Name: Dakota Neel	Approved by Environmental Special	isi. Acr						
Title: Environmental Coordinator	Approval Date: 10/26/2016	Expiration D	Date: N/A	A				
E-mail Address decal?@	CdivisC A							
E-mail Address: dneel2@concho.com	Conditions of Approval:		Attached	X				
Date: October 24, 2016 Phone: 575-748-6933	see attached							
Attach Additional Sheets If Necessary			2DD 20	16.1				

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 10/25/2016 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number **2RP-3964** 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 <u>division-approved corrective action</u> 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 II office in Artesia on or before 11/26/2016. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

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

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized to the following concentrations: benzene 10 mg/kg, total BTEX 50 mg/kg, TPH (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>) 100 mg/kg, chloride 600 mg/kg. 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 to the following concentrations: benzene 10 mg/kg, total BTEX 50 mg/kg, TPH (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>) 100 mg/kg, chloride 250 mg/kg. 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.
- No inference should be made concerning the minimum characterization concentrations expressed above as to the ultimate remediation levels which might be approved. 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 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 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 Received by OCD: 3/25/2024 1:14:34 PM Form C-141 State of New Mexico
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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?	☐ Yes ☐ No						
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ 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)?	☐ Yes ☐ No						
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ 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?	☐ Yes ☐ No						
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No						
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No						
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No						
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No						
Are the lateral extents of the release overlying an unstable area such as karst geology?							
Are the lateral extents of the release within a 100-year floodplain?							
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ☐ 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.							
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 ⅓-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.

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			_

Incident ID		
District RP		
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thraddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	oCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name:	_ Title:
Signature: NATS	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

Received by OCD: 3/25/2024 1:14:34 PM Form C-141 State of New Mexico Page 5 Oil Conservation Division

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Incident ID		
District RP		
Facility ID		
Application ID		

## **Remediation Plan**

Remediation Plan Checklist: Each of the following items must b	e 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 con	afirmed as part of any request for deferral of remediation.						
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility						
Extents of contamination must be fully delineated.							
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.						
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of						
Printed Name:	Title:						
Signature:							
email:	Telephone:						
OCD O. I							
OCD Only							
Received by:	Date:						
Approved Deferral Approved Deferral Approved							
Signature:	Date:						

# **APPENDIX B Regulatory Correspondence**

#### Chama, Sam

From: Taylor, Shelly J <sjtaylor@blm.gov>
Sent: Tuesday, January 2, 2024 8:57 AM

To: Chama, Sam

Subject: Re: [EXTERNAL] RE: Access Request - Folk Federal #002 Tank Battery Release (NAB1630550256)

You don't often get email from sjtaylor@blm.gov. Learn why this is important

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

 $\wedge$ 

BLM grants authorization to drill the borehole to determine water depth.

Sincerely,

Shelly J Taylor Assistant Field Manager Lands & Minerals - Acting

Bureau of Land Management Pecos District/Roswell Field Office 2909 W 2<sup>nd</sup> St Roswell, NM 88201

Direct 575.627.0250 Mobile 575.200.0614 sjtaylor@blm.gov



From: Chama, Sam <SAM.CHAMA@tetratech.com>

**Sent:** Monday, January 1, 2024 8:06 PM **To:** Taylor, Shelly J <sjtaylor@blm.gov>

Subject: [EXTERNAL] RE: Access Request - Folk Federal #002 Tank Battery Release (NAB1630550256)

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

Hi Shelly,

I wanted to follow up with you and confirm we had received approval to perform a depth to water borehole on BLM land at the previously mentioned site.

Thank you,

Sam Chama, G.I.T. | Sci. Geologist III

Mobile +1 (509) 768-2191 | Business +1 (512) 338-1667 | Fax +1 (512) 338-1331 | sam.chama@tetratech.com

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

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From: Chama, Sam

**Sent:** Monday, December 18, 2023 10:26 AM

To: sjtaylor@blm.gov

Subject: RE: Access Request - Folk Federal #002 Tank Battery Release (NAB1630550256)

Hi Shelly,

Thank you for taking my call this morning. We have authorization from Spur to drilling the boring for the depth-to-water boring on their pad. This email is to follow up on our conversation where you gave me verbal authorization for access.

#### Thank you,

Sam Chama, G.I.T. | Sci. Geologist III

Mobile +1 (509) 768-2191 | Business +1 (512) 338-1667 | Fax +1 (512) 338-1331 | sam.chama@tetratech.com

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Please consider the environment before printing. Read more



From: Chama, Sam

Sent: Monday, December 18, 2023 10:20 AM

To: sjtaylor@blm.gov

Subject: Access Request - Folk Federal #002 Tank Battery Release (NAB1630550256)

Importance: High

Shelly,

Tetra Tech is assisting ConocoPhillips with assessment activities associated with an older historical release (occurred on October 14, 2016) on BLM land.

The **Folk Federal #002 Tank Battery Release** released approximately 18 barrels (bbls) of crude oil, of which 16 bbls of oil were recovered.

It was an on pad release footprint, and remained within the berm of the tank battery.

In order to complete the assessment and the submittal process we are requesting verbal approval to install a Depth to water borehole (DTW) off a right of way (ROW) on BLM Land, on the east side of the pad.

KMZ file attached and screengrab below.

To comply with the New Mexico Office of State Engineer (OSE) permit requirements, we must include landowner approval when submitting the *Application for Permit to Drill* (WR-07).

We have the application ready, we just need your approval.

Please let me know if you require any other permitting or compliance items in addition to this email approval before we begin work.

Folk Federal #002 Tank Battery Release Unit Letter H, Section 17, Township 17 South, Range 29 East Eddy County, New Mexico Incident Identification (ID) NAB1630550256

Approximate Release Location: 32.836131°, -104.090794°

Date Release Discovered: October 14, 2016

Volume Released: Approximately 18 barrels (bbls) of crude oil.

Release on Pad, inside tank battery berm.



Thank you,

Sam Chama, G.I.T. | Sci. Geologist III

Mobile +1 (509) 768-2191 | Business +1 (512) 338-1667 | Fax +1 (512) 338-1331 | sam.chama@tetratech.com

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File No. RA- 13407

## **NEW MEXICO OFFICE OF THE STATE ENGINEER**



# WR-07 APPLICATION FOR PERMIT TO DRILL A WELL WITH NO WATER RIGHT



(check applicable box):

Purpose	Pollution Control And/Or Recovery	☐ Ground Source Heat Pump					
☐ Exploratory Well*(Pump test)	Construction Site/Publi Works Dewatering	Other(Describe): Borchole					
☐ Monitoring Well	☐ Mine Dewatering						
A separate permit will be required to ap *New Mexico Environment Department			tive. tory well is used for public water supply.				
Temporary Request - Request	ted Start Date: 1/2/2024	Requested E	End Date: 1/2/2025				
Plugging Plan of Operations Subi	mitted?  Yes No						
450104417(0)							
		<del></del>					
. APPLICANT(S)		Name:					
Name: Tetra Tech on behalf of ConocoPh			check here if Agent □-				
Name:	nillips check here if Agent	Name:  Contact or Agent:	check here if Agent □-				
Name: Tetra Tech on behalf of ConocoPh Contact or Agent:	check here if Agent		check here if Agent □-				
Name: Tetra Tech on behalf of ConocoPh Contact or Agent: Christian Llull Mailing Address:	check here if Agent	Contact or Agent:	check here if Agent □-				
Name: Tetra Tech on behalf of ConocoPh Contact or Agent: Christian Llull Mailing Address: 3911 N Capital of Texas Hwy #23: City:	check here if Agent	Contact or Agent:  Mailing Address:	check here if Agent □-				
Name: Tetra Tech on behalf of ConocoPt Contact or Agent: Christian Llull Mailing Address: 3911 N Capital of Texas Hwy #23* City: Austin State:	check here if Agent   10  Zip Code:	Contact or Agent:  Mailing Address:  City:					

FOR OSE INTERNAL USE	Application for Permit, Form WR-07, Rev 07/12/22							
File No.: RH-13407	Tm. No.: 154831	Receipt No.: 2-4 6490						
Trans Description (optional):	N							
Sub-Basin: RM	PCW/LOG Due	Date:  - 10 - 25						

Page 1 of 3

(Lat/Long - WGS84).

NM West Zone
NM East Zone
NM Central Zone

Well Number (if known):

☐ NM State Plane (NAD83) (Feet)

2. WELL(S) Describe the well(s) applicable to this application.

Folk Federal #2_DTW	32.836223°	-104.090379°	Unit	t Letter H, Section 17, Township 17S, Range 29E		
	<u> </u>					
	<u>.</u>					
NOTE: If more well location	s need to be descri	bed, complete for	m WR-08 (A	ttachment 1 – POD Descriptions)		
Additional well descriptions				s, how many		
Other description relating well	i to common landman	ks, streets, or othe	r:			
Well is on land owned by::						
Well Information: NOTE: If r	more than one (1) we	ell needs to be de	scribed, pro	ovide attachment. Attached? 🔲 Yes 🔳 No		
If yes, how many				C. H		
Approximate depth of well (fe			Outside diameter of well casing (inches):  Driller License Number: WD1188			
Driller Name: John Scarborou	igh		Driller Licen	se Number. WD [168		
. ADDITIONAL STATEMENTS	S OR EXPLANATION	IS		OSC OT JAN 3 2024 M11.12/3		
Orilling borehole to determine	depth to groundwater					
The borehole will be installed o	on pad on land owned	by the Bureau of	Land Manag	ement, however, the facilities were formerly operated		
Concho Operating Group are a	are now onerated by 9	Spur Energy Parth	ers. The BLN	If has been contacted in order to coordinate approval to perations is included with the application.		
access and drilling the borehol	e. The correspondent	ce giving approvai	ioi dililing of	ociations is included with the application.		
		FOR OSE INTERNA	LUSE	Application for Permit, Form WR-07 Version 07/12/22		
		File No.: RA -	13407	Tm No.: 754831		
	L	Elle 140"   1/14-	10101	Page 2 of		

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude

Provide if known:

- Land Grant Name

-Public Land Survey System (PLSS)

- Lot, Block & Subdivision; OR

- Hydrographic Survey Map & Tract; OR

(Quarters or Halves , Section, Township, Range) OR

Lat/Long (WGS84) (to the nearest 1/10<sup>th</sup> of second)

District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

☐Zone 12N ☐Zone 13N

X or Easting or

Longitude:

UTM (NAD83) (Meters)

Y or Northing

or Latitude:

4. SPECIFIC REG boxes, to indicate	UIREMENTS: The applicant must include the information has been included and/or a	the following, as applicable to each ttached to this application:	h well type. Please check the appropriate
Exploratory: Is proposed well a future public water supply well?  Yes NO If Yes, an application must be filed with NMED-DWB, concurrently.  Include a description of the requested pump test if applicable.  Monitoring The reason and duration of the monitoring is required.	Pollution Control and/or Recovery:  Include a plan for pollution control/recovery, that includes the following:  A description of the need for the pollution control or recovery operation.  The estimated maximum period of time for completion of the operation.  The annual diversion amount.  The annual consumptive use amount.  The maximum amount of water to be diverted and injected for the duration of the operation.  The method and place of discharge.  The method of measurement of water produced and discharged.  The source of water to be injected.  The method of measurement of water injected.  The characteristics of the aquifer.  The method of determining the resulting annual consumptive use of water and depletion from any related stream system.  Proof of any permit required from the New Mexico Environment Department.  An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	Construction  De-Watering:  Include a description of the proposed dewatering operation,  The estimated duration of the operation,  The maximum amount of water to be diverted,  A description of the need for the dewatering operation, and,  A description of how the diverted water will be disposed of.  Ground Source Heat Pump:  Include a description of the geothermal heat exchange project,  The number of boreholes for the completed project and required depths.  The time frame for constructing the geothermal heat exchange project, and,  The duration of the project.  Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	Mine De-Watering:  Include a plan for pollution control/recovery, that includes the following.  A description of the need for mine dewatering.  The estimated maximum period of time for completion of the operation.  The source(s) of the water to be diverted.  The geohydrologic characteristics of the aquifer(s).  The maximum amount of water to be diverted per annum.  The maximum amount of water to be diverted for the duration of the operation.  The quality of the water.  The method of measurement of water diverted.  The recharge of water to the aquifer.  Description of the estimated area of hydrologic effect of the project.  The method and place of discharge.  An estimation of the effects on surface water rights and underground water rights from the mine dewatering project.  A description of the methods employed to estimate effects on surface water rights and underground water rights.  Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
		CKNOWLEDGEMENT	
I, We (name of a	applicant(s)), CHRISTIAN M. LLULL	rint Name(s)	
affirm that the fo	pregoing statements are true to the best of	* *	
(	Ch		
Applicant Signa	ture	Applicant Signature	e
	ACTION	OF THE STATE ENGINEER	
Mexico nor de	trimental to the public welfare and further s	having existing rights, and is not oubject to the attached conditions of	
Witness my han	nd and seal this day of	anuary 20 24.	for the State Engineer,
Mik	le A. Hamman,	P.E., State Engineer KA5W	OSE DIT JAN 3 2024 MILLIZS
By: Signature		Print	The following
Title: WM	ter Resources M	anagerI	
	FOR O	SE INTERNAL USE Appli	cation for Permit, Form WR-07 Version 07/12/22

File No.:

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Tm No.:

Released to Imaging: 4/1/2024 3:43:52 PM

# NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

#### SPECIFIC CONDITIONS OF APPROVAL

- 17-16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.
- 17-1A Depth of the well shall not exceed the thickness of the valley fill.
- 17-4 No water shall be appropriated and beneficially used under this permit.
- 17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

Trn Desc: RA 13407 POD1 File Number: RA 13407
Trn Number: 754831

# NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

#### SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.

  The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- 17-Q The State Engineer retains jurisdiction over this permit.
- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

Trn Desc: RA 13407 POD1 File Number: RA 13407

Trn Number: <u>754831</u>

#### NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

#### SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion RA 13407 POD1 must be completed and the Well Log filed on or before 01/09/2025.

> IT IS THE PERMITEE'S RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

#### **ACTION OF STATE ENGINEER**

Notice of Intention Rcvd: Date Rcvd. Corrected: Formal Application Rcvd: 01/03/2024 Pub. of Notice Ordered: Date Returned - Correction: Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witn	ess	my	hand	and	seal	this	10	day	of _	Jan	A.D.,	2024	
Mike	. A.	Han	nman,	P.E.			, Sta	te En	gine	er			
			Ja						3				
-2.			PARI										

Trn Desc: RA 13407 POD1 File Number: RA 13407 Trn Number: 754831

Released to Imaging: 4/1/2024 3:43:52 PM

#### **Bratcher, Mike, EMNRD**

**From:** Bratcher, Mike, EMNRD

**Sent:** Tuesday, March 14, 2017 9:23 AM

**To:** 'Tavarez, Ike'; Weaver, Crystal, EMNRD; Tucker, Shelly (stucker@blm.gov)

Cc: Robert McNeill; Rebecca Haskell; Robert Grubbs; Gonzales, Clair

Subject: RE: COG Operating - Folk Federal Tank Battery - Eddy County, New Mexico - Deferment Report

RE: COG \* Folk Federal Tank Battery \* 2RP-3964 \* DOR: 10/14/16

Greetings,

At this time, your request for deferment is <u>not</u> approved. OCD does approve the proposal to remove 6" of impacted material in the affected area. For deferral consideration, OCD requests the removal of impacted material to the extent practicable, and delineation to the extent practicable. Please obtain samples after the excavation event, as practicable, for documentation. Microblaze application may then be applied and the site reconsidered for deferment.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, please contact me.

Mike Bratcher NMOCD District 2 811 S. First St. Artesia NM 88210 575-748-1283 Ext 108 mike.bratcher@state.nm.us

**From:** Tavarez, Ike [mailto:Ike.Tavarez@tetratech.com]

Sent: Friday, March 10, 2017 2:18 PM

**To:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; Tucker, Shelly (stucker@blm.gov) <stucker@blm.gov>

**Cc:** Robert McNeill <RMcNeill@concho.com>; Rebecca Haskell <RHaskell@concho.com>; Robert Grubbs <RGrubbs@concho.com>; Gonzales, Clair <Clair.Gonzales@tetratech.com>

Subject: COG Operating - Folk Federal Tank Battery - Eddy County, New Mexico - Deferment Report

All,

Here is the COG Operating Deferment Report for the Folk Federal Tank Battery located in Eddy County, New Mexico. Please review and contact me if you a have any questions or comment on the deferment, thanks

Ike Tavarez, PG | Senior Project Manager

Main: 432.682.4559 | Fax: 432.682.3946 | Cell: 432.425.3878

#### Ike.Tavarez@tetratech.com

Tetra Tech | Complex World, Clear Solutions™

4000 North Big Spring, Suite 401 | Midland, TX 79705 | www.tetratech.com

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#### Bratcher, Mike, EMNRD

**From:** Bratcher, Mike, EMNRD

**Sent:** Monday, October 16, 2017 9:00 AM **To:** Gonzales, Clair; Tucker, Shelly

Cc: Tavarez, Ike; Rebecca Haskell; Dakota Neel; Robert McNeill; Weaver, Crystal, EMNRD

**Subject:** RE: COG - Folk Federal Tank Battery - 2RP-3964 - Deferment Report

RE: COG \* Folk Federal Tank Battery \* 2RP-3964 \* DOR: 10/14/16

Greetings,

After a review of the proposal to defer the above referenced release, based on analytical data and potential relatively shallow depth to ground water, OCD requests a boring be installed, as close to the impacted area as possible, to determine actual depth to ground water at this site. Water quality and a determination of impact may be required. Please advise once this activity has been scheduled.

If you have any questions or concerns, please contact me.

Mike Bratcher NMOCD District 2 811 South First Street Artesia, NM 88210 575~748~1283 Ext 108

From: Gonzales, Clair [mailto:Clair.Gonzales@tetratech.com]

**Sent:** Monday, July 10, 2017 8:22 AM

To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Tucker, Shelly <stucker@blm.gov>

Cc: Tavarez, Ike <Ike.Tavarez@tetratech.com>; Rebecca Haskell <RHaskell@concho.com>; Dakota Neel

<DNeel2@concho.com>; Robert McNeill <RMcNeill@concho.com>
Subject: COG - Folk Federal Tank Battery - 2RP-3964 - Deferment Report

#### Good Morning,

Attached is the Deferment Report for the above mentioned site in Eddy County, New Mexico. Please review and let me know if you have any questions or concerns.

Thank you,

#### Clair Gonzales

Clair Gonzales | Geologist III

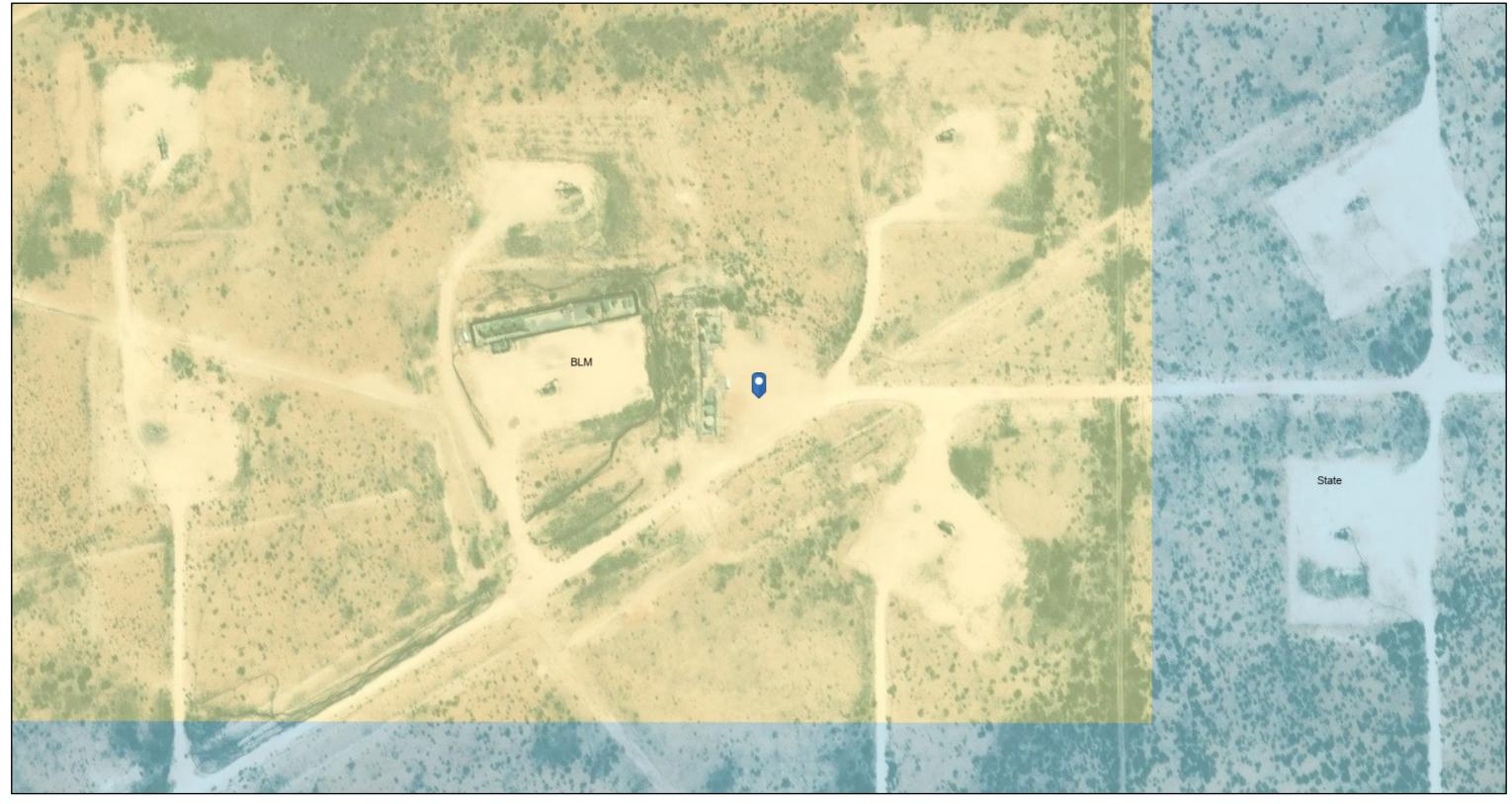
Phone: 432.687.8123| Mobile 432.260.8634 | Fax:432.682.3946 clair.gonzales@tetratech.com

Tetra Tech | Complex World, CLEAR SOLUTIONS™ 4000 N. Big Spring | Midland, TX 79705 | www.tetratech.com

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# **APPENDIX C Site Characterization Data**

# **OCD Land Ownership**



3/12/2024, 10:40:16 AM Land Ownership

BLM

S

1:2,257 0.04 0.09 mi 0.02 0.04 0.07 0.15 km

U.S. BLM, Maxar, Microsoft, Esri, HERE, Garmin, iPC



# 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

 Sub Q Q Q
 Depth Depth Water

 POD Number
 Code basin County 64 16 4 Sec Tws Rng
 X
 Y
 Distance
 Well Water Column

 RA 11807 POD1
 RA ED 1 2 3 22 17S 29E 587360 3631585
 2958 131 76 55
 55

Average Depth to Water:

76 feet

Minimum Depth: 76 feet

Maximum Depth: **76 feet** 

**Record Count: 1** 

**UTMNAD83** Radius Search (in meters):

**Easting (X):** 585092.38 **Northing (Y):** 3633486.76 **Radius:** 3200

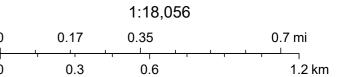
# **OCD - USGS Groundwater Wells**



12/4/2023, 1:02:01 PM

USGS Historical GW Wells

OSE Streams



USGS, Esri, HERE, Garmin, iPC, Maxar, NM OSE

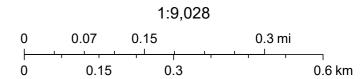
Sampler Types: Operation Split Acetate Liner Auger Types: Hollow Stem Surface elevation is an approximate value obtained from Google Shelby Vane Shear Air Rotary Auger Earth data. Continuous Bulk California Flight Auger Push Sample Mud Drive Grab Test Pit Casing Rotary Sample Drilling Equipment: Air Rotary Driller: Scarborough Drilling Logger: Colton Bickerstaff Released to Imaging: 4/1/2024 3:43:52 PM

# **OCD** Waterbodies



3/12/2024, 10:41:49 AM

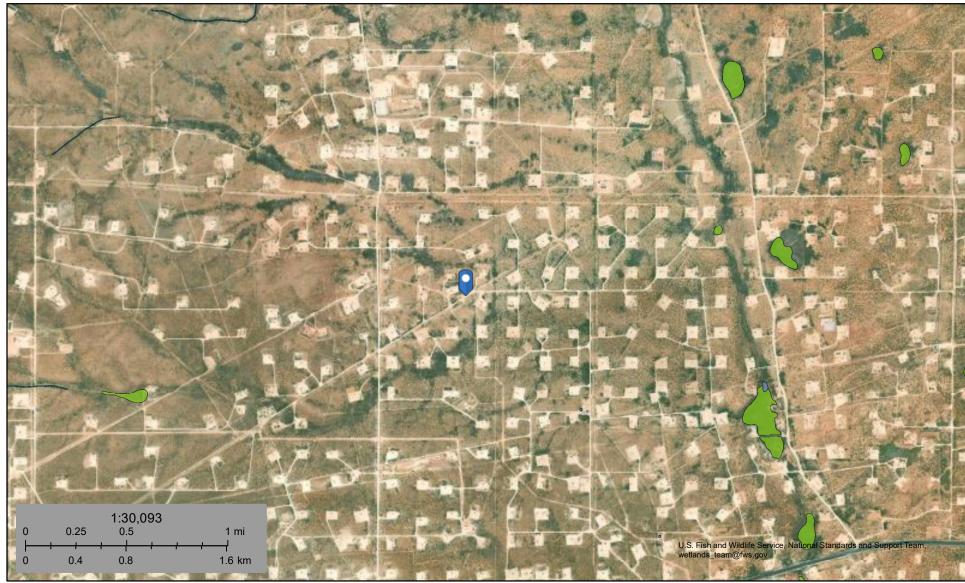
**OSE Streams** 



Esri, HERE, Garmin, iPC, Maxar, NM OSE



# National Wetland Inventory Map



March 12, 2024



Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

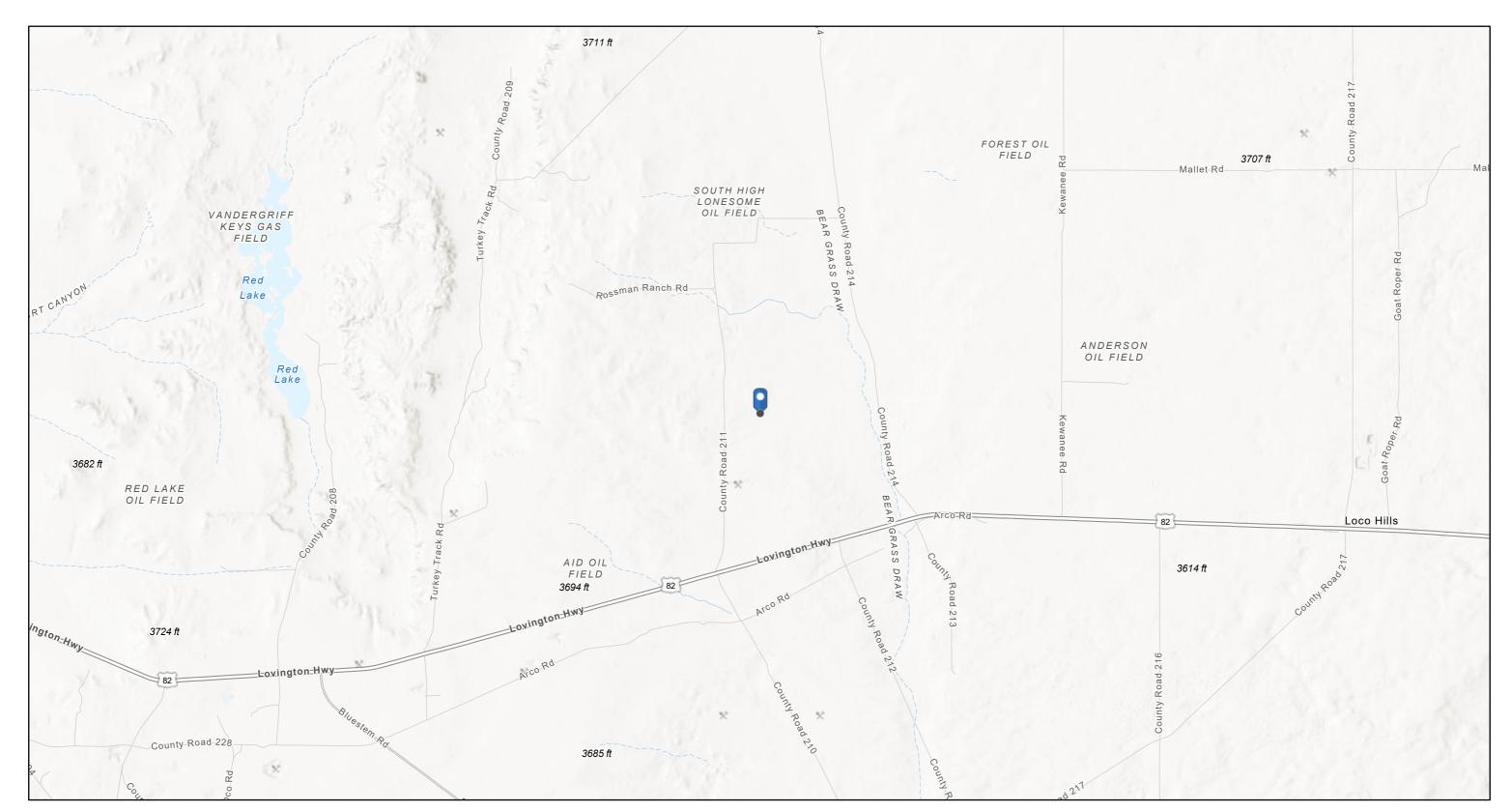
Other

Riverine



This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

# Active Mines in New Mexico

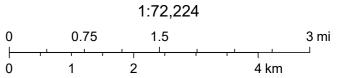


3/12/2024, 10:50:19 AM

### Registered Mines

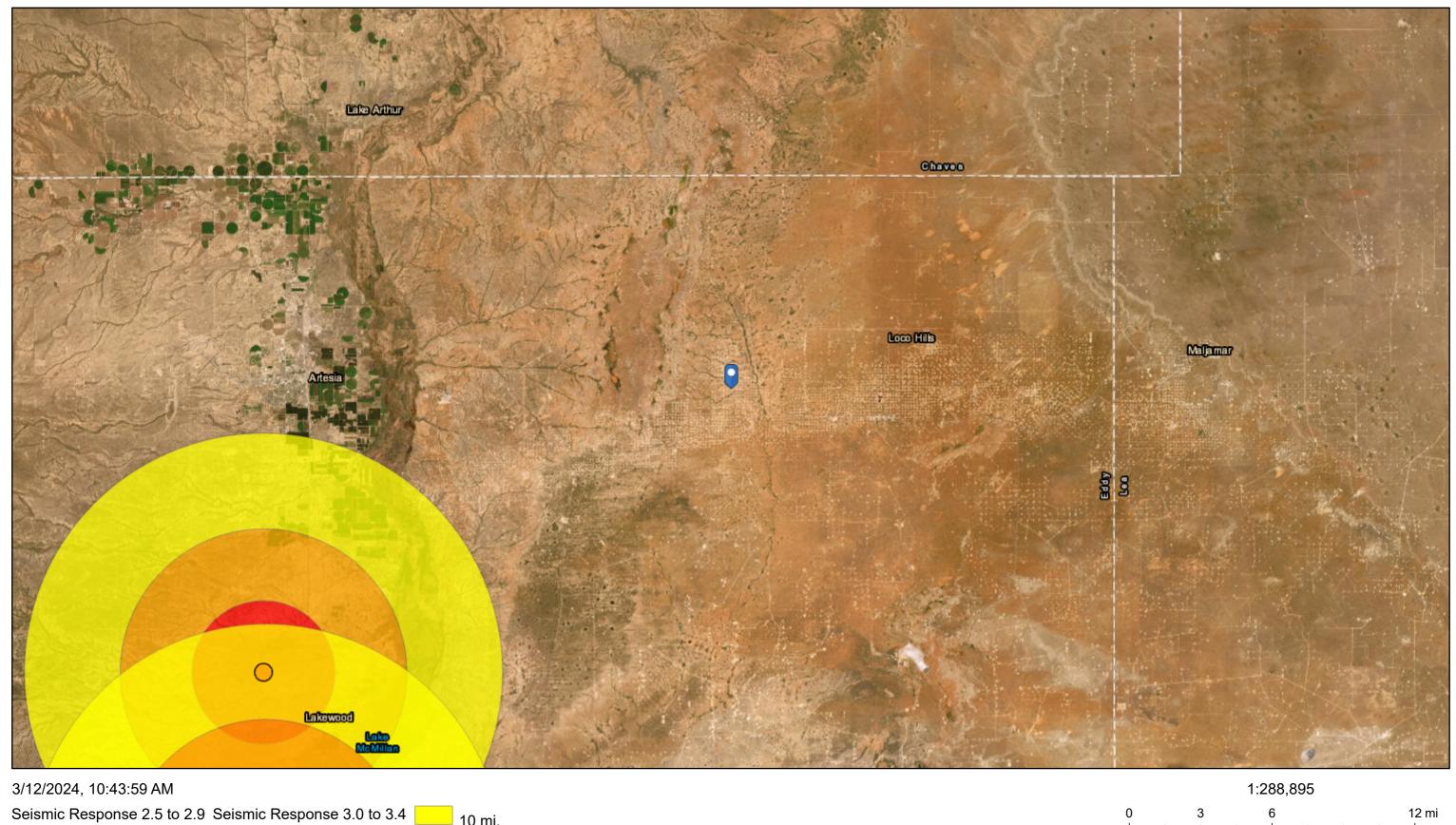
\* Aggregate, Stone etc.

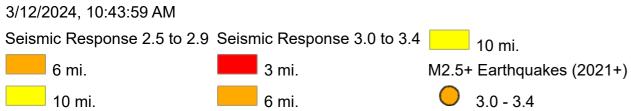
- \* Aggregate, Stone etc.
- \* Aggregate, Stone etc.

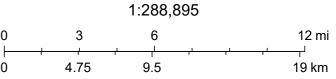


Texas Parks & Wildlife, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS, Esri, NASA, NGA, USGS, FEMA

# **OCD Seismicity**

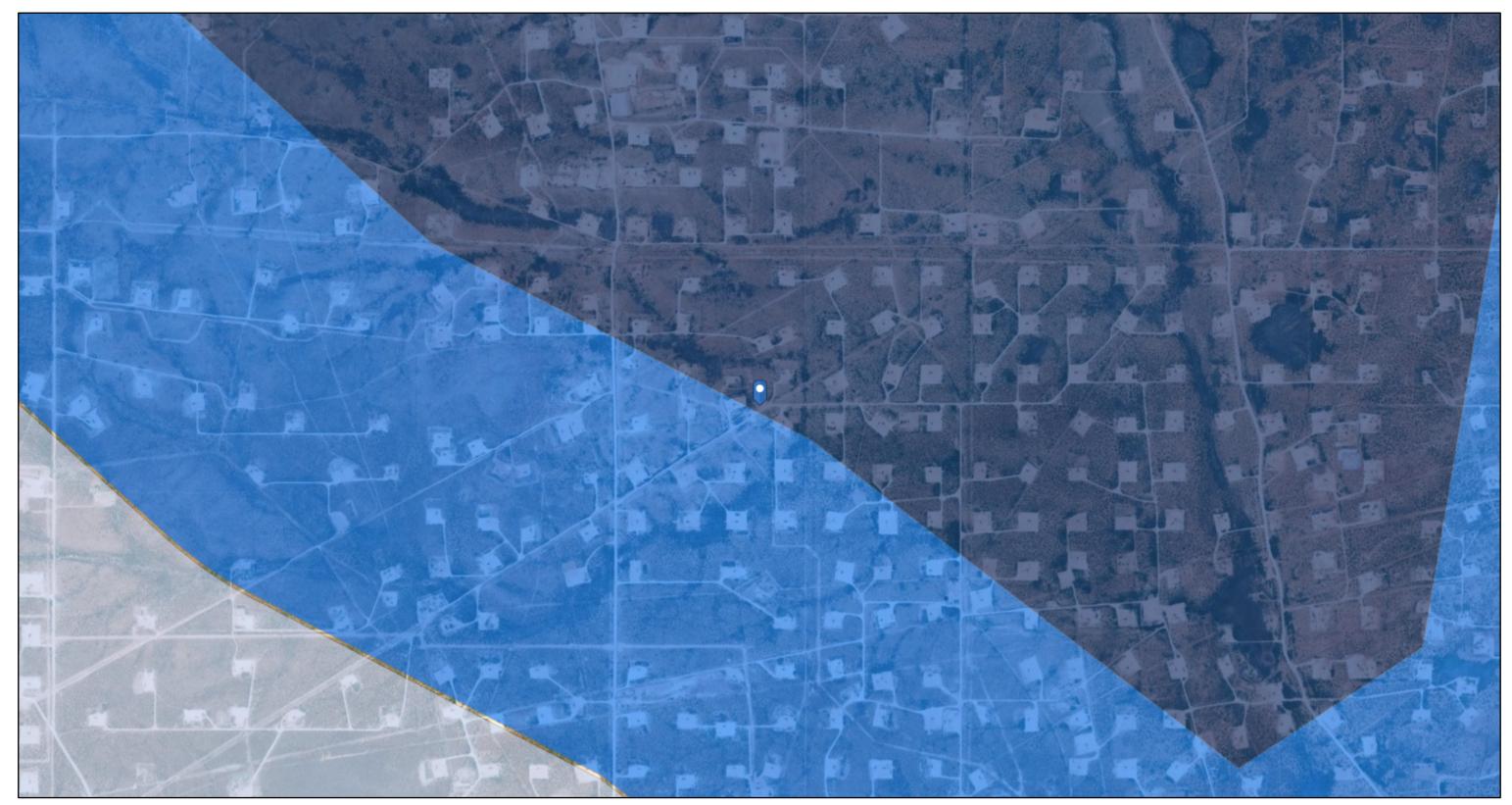






Oil Conservation Division (OCD), Energy, Minerals and Natural Resources Department (EMNRD), Esri, HERE, Garmin, Earthstar Geographics

# **OCD Karst Occurrence Potential**



3/12/2024, 10:45:00 AM

Karst Occurrence Potential

High

Medium

Low

1:18,056 0 0.17 0.35 0.7 mi 0 0.3 0.6 1.2 km

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

# National Flood Hazard Layer FIRMette





Legend SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD **HAZARD AREAS** Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF FLOOD HAZARD Area with Flood Risk due to Levee Zone D NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLI Levee, Dike, or Floodwall

> 17.5 Water Surface Elevation **Coastal Transect** www 513 www Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary **Coastal Transect Baseline** OTHER Profile Baseline **FEATURES** Hydrographic Feature

> > Digital Data Available No Digital Data Available Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

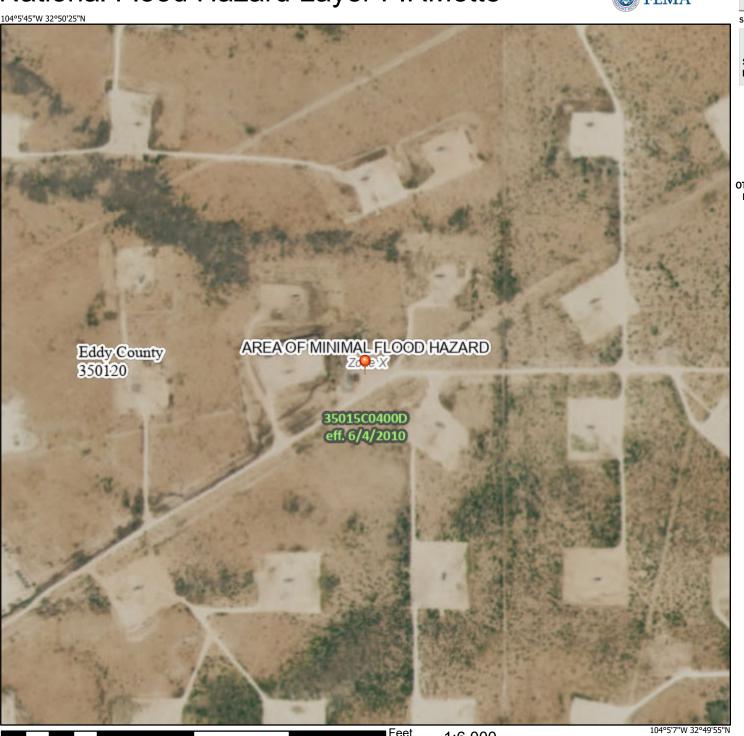
20.2 Cross Sections with 1% Annual Chance

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

MAP PANELS

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/12/2024 at 11:46 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



# APPENDIX D Laboratory Analytical Data

# **Analytical Report 555002**

for Tetra Tech- Midland

Project Manager: Ike Tavarez
Concho-Folk Federal Tank Battery
212C-MD-00679
15-JUN-17

Collected By: Client





#### 1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)

Xenco-San Antonio: Texas (T104704534)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





15-JUN-17

Project Manager: **Ike Tavarez Tetra Tech- Midland**4000 N. Big Spring Suite 401
Midland, TX 79705

Reference: XENCO Report No(s): **555002** 

Concho-Folk Federal Tank Battery Project Address: Eddy Co NM

#### Ike Tavarez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 555002. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 555002 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

**Kelsey Brooks** 

Knus Koah

Project Manager

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# **Sample Cross Reference 555002**



#### Tetra Tech- Midland, Midland, TX

Concho-Folk Federal Tank Battery

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
SP #1 (0-6") 6" BEB	S	06-07-17 00:00		555002-001
SP #2 (0-4") 6" BEB	S	06-07-17 00:00		555002-002
SP #3 (0-4") 6" BEB	S	06-07-17 00:00		555002-003
SP #4 (0-4") 6" BEB	S	06-07-17 00:00		555002-004
SP #5 (0-4") 6" BEB	S	06-07-17 00:00		555002-005
SP #6 (0-6") 6" BEB	S	06-07-17 00:00		555002-006
SP #7 (0-6") 6" BEB	S	06-07-17 00:00		555002-007

#### CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Concho-Folk Federal Tank Battery

 Project ID:
 212C-MD-00679
 Report Date:
 15-JUN-17

 Work Order Number(s):
 555002
 Date Received:
 06/08/2017

#### Sample receipt non conformances and comments:

#### Sample receipt non conformances and comments per sample:

None

#### Analytical non conformances and comments:

Batch: LBA-3019540 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3019644 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030. o-Xylene Relative Percent Difference (RPD) between matrix spike and duplicate was above quality control limits.

Samples in the analytical batch are: 555002-003, -005

Lab Sample ID 555002-005 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 555002-003, -005.

The Laboratory Control Sample for Toluene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3019769 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



**Project Id: Contact:** 

**Project Location:** 

212C-MD-00679

Ike Tavarez

Eddy Co NM

### Certificate of Analysis Summary 555002

#### Tetra Tech- Midland, Midland, TX

Project Name: Concho-Folk Federal Tank Battery

Date Received in Lab: Thu Jun-08-17 10:16 am

Page 56 of 110

**Report Date:** 15-JUN-17 **Project Manager:** Kelsey Brooks



Lab Id: 555002-001 555002-002 555002-003 555002-004 555002-005 555002-006 SP #1 (0-6") 6" BEB SP #2 (0-4") 6" BEB SP #3 (0-4") 6" BEB SP #4 (0-4") 6" BEB SP #5 (0-4") 6" BEB SP #6 (0-6") 6" BEB Field Id: Analysis Requested Depth: Matrix: SOIL SOIL SOIL SOIL SOIL SOIL Jun-07-17 00:00 Jun-07-17 00:00 Jun-07-17 00:00 Jun-07-17 00:00 Jun-07-17 00:00 Jun-07-17 00:00 Sampled: BTEX by EPA 8021B Jun-12-17 11:00 Jun-12-17 11:00 Jun-13-17 07:00 Jun-13-17 15:00 Jun-13-17 07:00 Jun-13-17 15:00 Extracted: Analyzed: Jun-12-17 20:27 Jun-12-17 20:11 Jun-13-17 08:55 Jun-14-17 10:37 Jun-13-17 09:11 Jun-14-17 11:09 RL mg/kg RL RL RL RL RLUnits/RL: mg/kg mg/kg mg/kg mg/kg mg/kg < 0.00372 0.00372 < 0.00356 0.00356 < 0.00380 0.00380 0.404 0.398 < 0.00389 0.00389 7.69 1.00 Benzene Toluene < 0.00372 0.00372 < 0.00356 0.00356 < 0.00380 0.00380 1.01 0.398 < 0.00389 0.00389 59.2 1.00 < 0.00372 0.00372 0.00731 0.00356 0.0428 0.00380 25.6 0.398 < 0.00389 0.00389 93.4 1.00 Ethylbenzene 0.00743 0.00772 227 2.01 0.00712 0.0438 0.00760 39.8 0.797 < 0.00778 0.00778 m,p-Xylenes < 0.00743 o-Xylene < 0.00372 0.00372 < 0.00356 0.00356 < 0.00380 0.00380 38.4 0.398 < 0.00389 0.00389 117 1.00 < 0.00372 0.00372 0.00772 0.00356 0.0438 0.00380 78.2 0.398 < 0.00389 0.00389 344 1.00 Total Xylenes Total BTEX < 0.00372 0.00372 0.0150 0.00356 0.0866 0.00380 105 0.398 < 0.00389 0.00389 504 1.00 TPH By SW8015 Mod Extracted: Jun-09-17 18:00 Jun-09-17 18:00 Jun-09-17 18:00 Jun-09-17 18:00 Jun-09-17 18:00 Jun-09-17 18:00 Analyzed: Jun-10-17 16:44 Jun-10-17 17:45 Jun-10-17 18:05 Jun-10-17 18:26 Jun-10-17 18:47 Jun-10-17 19:07 Units/RL. mg/kg RL mg/kg RL mg/kg RL mg/kg RLmg/kg RL mg/kg RLGasoline Range Hydrocarbons 379 74.9 349 74.7 501 74.8 1280 75.0 215 74.8 6410 74.9 7520 Diesel Range Organics 3350 74.9 4840 74.7 4810 74.8 4520 75.0 2900 74.8 74.9 74.9 74.7 504 74.8 363 75.0 283 74.8 952 74.9 Oil Range Hydrocarbons 355 533 74.9 5820 14900 74.9 Total TPH 4080 5720 74.7 74.8 6160 75.0 3400 74.8

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Kins froak Kelsey Brooks Project Manager



## **Certificate of Analysis Summary 555002**

#### Tetra Tech- Midland, Midland, TX

Project Name: Concho-Folk Federal Tank Battery



**Project Id:** 212C-MD-00679

Contact: Ike Tavarez

Project Location: Eddy Co NM

**Date Received in Lab:** Thu Jun-08-17 10:16 am

**Report Date:** 15-JUN-17 **Project Manager:** Kelsey Brooks

	Lab Id:	555002-0	07			
4 1 · D	Field Id:	SP #7 (0-6") 6	" BEB			
Analysis Requested	Depth:					
	Matrix:	SOIL				
	Sampled:	Jun-07-17 (	00:00			
BTEX by EPA 8021B	Extracted:	Jun-13-17 1	5:00			
	Analyzed:	Jun-14-17 1	0:53			
	Units/RL:	mg/kg	RL			
Benzene	·	7.96	1.01			
Toluene		99.3	1.01			
Ethylbenzene		111	1.01			
m,p-Xylenes		140	2.02			
o-Xylene		62.8	1.01			
Total Xylenes		203	1.01			
Total BTEX		421	1.01			
TPH By SW8015 Mod	Extracted:	Jun-09-17 1	8:00			
	Analyzed:	Jun-10-17 1	9:27			
	Units/RL:	mg/kg	RL			
Gasoline Range Hydrocarbons		4450	74.9			
Diesel Range Organics		5330	74.9			
Oil Range Hydrocarbons		607	74.9			
Total TPH		10400	74.9			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Kelsey Brooks



### **Flagging Criteria**



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- \*\* Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit.
- **RL** Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

**DL** Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- \* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
1211 W Florida Ave, Midland, TX 79701	(432) 563-1800	(432) 563-1713
2525 W. Huntington Dr Suite 102, Tempe AZ 85282	(602) 437-0330	



Project Name: Concho-Folk Federal Tank Battery

Work Orders: 555002,

Sample: 555002-001 / SMP

**Project ID:** 212C-MD-00679

**Lab Batch #:** 3019459

Matrix: Soil Batch: 1

Units:	mg/kg	<b>Date Analyzed:</b> 06/10/17 16:44	SURROGATE RECOVERY STUDY					
	ТРН	By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooct	ane		97.8	99.8	98	70-135		
o-Terphenyl	1		48.4	49.9	97	70-135		

**Lab Batch #:** 3019459 Sample: 555002-002 / SMP Batch: Matrix: Soil

Units:	mg/kg	<b>Date Analyzed:</b> 06/10/17 17:45	SU	RROGATE RI	ECOVERY S	STUDY	
	ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooct	tane		102	99.6	102	70-135	
o-Terpheny	1		47.3	49.8	95	70-135	

Sample: 555002-003 / SMP Lab Batch #: 3019459 Batch: 1 Matrix: Soil

**Units:** Date Analyzed: 06/10/17 18:05 mg/kg SURROGATE RECOVERY STUDY

TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	99.7	100	70-135	
o-Terphenyl	47.7	49.9	96	70-135	

**Lab Batch #:** 3019459 Sample: 555002-004 / SMP Batch: Matrix: Soil

Units:	mg/kg	<b>Date Analyzed:</b> 06/10/17 18:26	SURROGATE RECOVERY STUDY					
	ТРН	By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooc	tane		112	100	112	70-135		
o-Terpheny	<sup>1</sup> 1		58.1	50.0	116	70-135		

Sample: 555002-005 / SMP **Lab Batch #:** 3019459 Batch: Matrix: Soil

Units:	mg/kg	<b>Date Analyzed:</b> 06/10/17 18:47	SURROGATE RECOVERY STUDY					
	ТРН	By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooct	tane		103	99.7	103	70-135		
o-Terpheny	1		51.2	49.9	103	70-135		

<sup>\*</sup> Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



Project Name: Concho-Folk Federal Tank Battery

Work Orders: 555002,

**Project ID:** 212C-MD-00679

**Lab Batch #:** 3019459

Sample: 555002-006 / SMP

Matrix: Soil Batch:

Units:	mg/kg	<b>Date Analyzed:</b> 06/10/17 19:07	SURROGATE RECOVERY STUDY					
	ТРН	By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooct	ane		109	99.8	109	70-135		
o-Terpheny	Į.		48.0	49.9	96	70-135		

**Lab Batch #:** 3019459

Sample: 555002-007 / SMP

Batch: 1

Matrix: Soil

**Units:** 

mg/kg

**Date Analyzed:** 06/10/17 19:27

SURROGATE RECOVERY STUDY

	50	MICOLILE IN	JOO VEILL	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	108	99.8	108	70-135	
o-Terphenyl	50.8	49.9	102	70-135	

Lab Batch #: 3019540

Sample: 555002-002 / SMP

Batch:

Matrix: Soil

**Units:** 

mg/kg

Date Analyzed: 06/12/17 20:11

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0286	0.0300	95	80-120	
4-Bromofluorobenzene	0.0308	0.0300	103	80-120	

**Lab Batch #:** 3019540

Sample: 555002-001 / SMP

Batch:

Matrix: Soil

Units:	mg/kg	<b>Date Analyzed:</b> 06/12/17 20:27	SURROGATE RECOVERY STUDY						
	ВТЕ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1,4-Difluor	robenzene		0.0272	0.0300	91	80-120			
4-Bromoflu	uorobenzene		0.0284	0.0300	95	80-120			

Lab Batch #: 3019644

Sample: 555002-003 / SMP

Batch:

Matrix: Soil

Units:	mg/kg	<b>Date Analyzed:</b> 06/13/17 08:55	SURROGATE RECOVERY STUDY						
	ВТЕ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1.4-Difluor	uch angana	Analytes	0.0275	0.0200		00.120	1		
,			0.0275	0.0300	92	80-120			
4-Bromoflu	ıorobenzene		0.0349	0.0300	116	80-120			

<sup>\*</sup> Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



**Project Name: Concho-Folk Federal Tank Battery** 

Work Orders: 555002,

**Project ID: 212C-MD-00679** 

**Lab Batch #:** 3019644

Sample: 555002-005 / SMP

Matrix: Soil Batch:

Units:	mg/kg	<b>Date Analyzed:</b> 06/13/17 09:11	SURROGATE RECOVERY STUDY					
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
		Analytes			[D]			
1,4-Difluorob	enzene		0.0293	0.0300	98	80-120		
4-Bromofluor	obenzene		0.0273	0.0300	91	80-120		

**Lab Batch #:** 3019769 Sample: 555002-004 / SMP Batch: Matrix: Soil

**Units:** mg/kg Date Analyzed: 06/14/17 10:37 SURROGATE RECOVERY STUDY **Amount** True Control BTEX by EPA 8021B Found Limits Amount Recovery Flags [A] [B] %R %R [D] **Analytes** 1,4-Difluorobenzene 0.0244 0.0300 81 80-120 4-Bromofluorobenzene 0.0297 0.0300 99 80-120

**Lab Batch #:** 3019769 Sample: 555002-007 / SMP Batch: Matrix: Soil

**Units:** mg/kg Date Analyzed: 06/14/17 10:53 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0297	0.0300	99	80-120	
4-Bromofluorobenzene	0.0349	0.0300	116	80-120	

**Lab Batch #:** 3019769 Sample: 555002-006 / SMP Batch: Matrix: Soil

Units:	mg/kg	<b>Date Analyzed:</b> 06/14/17 11:09	SURROGATE RECOVERY STUDY							
	вте	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
		Analytes			[D]					
1,4-Difluor	robenzene		0.0343	0.0300	114	80-120				
4-Bromoflu	ıorobenzene		0.0340	0.0300	113	80-120				

Lab Batch #: 3019459 Sample: 725909-1-BLK / BLK Batch: Matrix: Solid

Units:	mg/kg	<b>Date Analyzed:</b> 06/10/17 15:36	SURROGATE RECOVERY STUDY						
	ТРН	By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooc	tane		110	100	110	70-135			
o-Terpheny	·1		57.2	50.0	114	70-135			

<sup>\*</sup> Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



Project Name: Concho-Folk Federal Tank Battery

Work Orders: 555002,

**Sample:** 725998-1-BLK / BLK

**Project ID:** 212C-MD-00679

**Lab Batch #:** 3019540

Matrix: Solid Batch: 1

<b>Units:</b> mg/kg	<b>Date Analyzed:</b> 06/12/17 15:11	SURROGATE RECOVERY STUDY					
B	ΓΕΧ by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
	Analytes			[D]			
1,4-Difluorobenzene		0.0276	0.0300	92	80-120		
4-Bromofluorobenzene		0.0305	0.0300	102	80-120		

**Lab Batch #:** 3019644 **Sample:** 726036-1-BLK / BLK Batch: 1 Matrix: Solid

Units:	mg/kg	<b>Date Analyzed:</b> 06/13/17 08:39	SU	RROGATE RI	ECOVERY S	STUDY	
	ВТЕ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluor	obenzene		0.0256	0.0300	85	80-120	
4-Bromoflu	iorobenzene		0.0282	0.0300	94	80-120	

Sample: 726090-1-BLK / BLK **Lab Batch #:** 3019769 Batch: 1 Matrix: Solid

Date Analyzed: 06/14/17 01:16 **Units:** mg/kg SURROGATE RECOVERY STUDY

BTEX by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0289	0.0300	96	80-120	
4-Bromofluorobenzene	0.0290	0.0300	97	80-120	

**Lab Batch #:** 3019459 Sample: 725909-1-BKS / BKS Batch: 1 Matrix: Solid

Units:	mg/kg	<b>Date Analyzed:</b> 06/10/17 15:58	SURROGATE RECOVERY STUDY						
	ТРН	By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooc	ctane		101	100	101	70-135			
o-Terpheny	yl		49.4	50.0	99	70-135			

Batch: Lab Batch #: 3019540 Sample: 725998-1-BKS / BKS Matrix: Solid

Units:	mg/kg	<b>Date Analyzed:</b> 06/12/17 13:09	SURROGATE RECOVERY STUDY						
	ВТЕ	X by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluoro	benzene		0.0293	0.0300	98	80-120			
4-Bromofluo	orobenzene		0.0292	0.0300	97	80-120			

<sup>\*</sup> Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



Project Name: Concho-Folk Federal Tank Battery

Work Orders: 555002,

**Project ID:** 212C-MD-00679

**Lab Batch #:** 3019644 Matrix: Solid **Sample:** 726036-1-BKS / BKS Batch: 1

Units:	mg/kg	<b>Date Analyzed:</b> 06/13/17 07:01	SURROGATE RECOVERY STUDY							
	ВТЕ	X by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1,4-Difluoro	benzene		0.0289	0.0300	96	80-120				
4-Bromoflu	orobenzene		0.0326	0.0300	109	80-120				

**Lab Batch #:** 3019769 **Sample:** 726090-1-BKS / BKS Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 06/13/17 23:40 SURROGATE RECOVERY STUDY								
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]					
1,4-Difluorobenzene	0.0285	0.0300	95	80-120				
4-Bromofluorobenzene	0.0287	0.0300	96	80-120				

Sample: 725909-1-BSD / BSD **Lab Batch #:** 3019459 Batch: Matrix: Solid

**Units:** mg/kg Date Analyzed: 06/10/17 16:22 SURROGATE RECOVERY STUDY

TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	103	100	103	70-135	
o-Terphenyl	50.9	50.0	102	70-135	

**Lab Batch #:** 3019540 **Sample:** 725998-1-BSD / BSD Batch: 1 Matrix: Solid

Units:	mg/kg	<b>Date Analyzed:</b> 06/12/17 13:25	SURROGATE RECOVERY STUDY						
	ВТЕ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1,4-Difluor	robenzene		0.0295	0.0300	98	80-120			
4-Bromoflu	uorobenzene		0.0307	0.0300	102	80-120			

Lab Batch #: 3019644 **Sample:** 726036-1-BSD / BSD Batch: Matrix: Solid

Units:	ng/kg	<b>Date Analyzed:</b> 06/13/17 07:17	SURROGATE RECOVERY STUDY					
	BTE	X by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1,4-Difluorobenz	ene	<u>-</u>	0.0287	0.0300	96	80-120		
4-Bromofluorobenzene			0.0292	0.0300	97	80-120		

<sup>\*</sup> Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



**Project Name: Concho-Folk Federal Tank Battery** 

Work Orders: 555002,

**Project ID:** 212C-MD-00679

**Lab Batch #:** 3019769 Matrix: Solid **Sample:** 726090-1-BSD / BSD Batch: 1

Units:	mg/kg	<b>Date Analyzed:</b> 06/13/17 23:56	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B  Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorobenzene			0.0278	0.0300	93	80-120		
4-Bromofluo	orobenzene		0.0287	0.0300	96	80-120		

**Lab Batch #:** 3019459 **Sample:** 555002-001 S / MS Batch: 1 Matrix: Soil

**Units:** mg/kg Date Analyzed: 06/10/17 17:04 SURROGATE RECOVERY STUDY **Amount** True Control TPH By SW8015 Mod Found Limits Amount Recovery Flags [A] [B] %R %R [D] **Analytes** 1-Chlorooctane 99.7 70-135 116 116 o-Terphenyl 56.7 49.9 114 70-135

Lab Batch #: 3019540 Sample: 554743-001 S / MS Batch: Matrix: Soil

**Units:** mg/kg Date Analyzed: 06/12/17 14:05 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0327	0.0300	109	80-120	
4-Bromofluorobenzene	0.0299	0.0300	100	80-120	

**Lab Batch #:** 3019644 **Sample:** 555002-005 S / MS Batch: Matrix: Soil

Units:	mg/kg	<b>Date Analyzed:</b> 06/13/17 07:34	SURROGATE RECOVERY STUDY					
	ВТЕ	X by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1.4-Difluor	ohenzene	Analytes	0.0347	0.0300	116	80-120		
,	ıorobenzene		0.0344	0.0300	115	80-120		

Lab Batch #: 3019769 **Sample:** 555092-011 S / MS Batch: Matrix: Soil

Units:	mg/kg	<b>Date Analyzed:</b> 06/14/17 00:12	SURROGATE RECOVERY STUDY					
	ВТЕ	X by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1,4-Difluorob	enzene	Analy Co	0.0250	0.0300	83	80-120		
4-Bromofluor	robenzene		0.0332	0.0300	111	80-120		

<sup>\*</sup> Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



Project Name: Concho-Folk Federal Tank Battery

Work Orders: 555002,

**Project ID:** 212C-MD-00679

**Lab Batch #:** 3019459

**Sample:** 555002-001 SD / MSD

Matrix: Soil Batch: 1

Units:	mg/kg	<b>Date Analyzed:</b> 06/10/17 17:24	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod			Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
		Analytes			[2]			
1-Chloroocta	ane		115	99.8	115	70-135		
o-Terphenyl			57.8	49.9	116	70-135		

**Lab Batch #:** 3019540 **Sample:** 554743-001 SD / MSD Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 06/12/17 14:21 SURROGATE RECOVERY STUDY								
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]					
1,4-Difluorobenzene	0.0317	0.0300	106	80-120				
4-Bromofluorobenzene	0.0344	0.0300	115	80-120				

**Lab Batch #:** 3019644 **Sample:** 555002-005 SD / MSD Batch: Matrix: Soil

**Units:** mg/kg Date Analyzed: 06/13/17 07:49 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0308	0.0300	103	80-120	
4-Bromofluorobenzene	0.0299	0.0300	100	80-120	

**Lab Batch #:** 3019769 **Sample:** 555092-011 SD / MSD Batch: 1 Matrix: Soil

Units:	mg/kg	<b>Date Analyzed:</b> 06/14/17 00:28	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B  Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluoro	obenzene	Time y ecs	0.0291	0.0300	97	80-120		
4-Bromoflu	orobenzene		0.0357	0.0300	119	80-120		

Surrogate Recovery [D] = 100 \* A / B

<sup>\*</sup> Surrogate outside of Laboratory QC limits

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



mg/kg

**Units:** 

#### **BS / BSD Recoveries**

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY



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Project Name: Concho-Folk Federal Tank Battery

Work Order #: 555002 **Project ID:** 212C-MD-00679

**Date Prepared:** 06/12/2017 **Date Analyzed:** 06/12/2017 **Analyst:** ALJ

**Lab Batch ID:** 3019540 **Sample:** 725998-1-BKS **Batch #:** 1 Matrix: Solid

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag			
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]							
Benzene	< 0.00200	0.100	0.0880	88	0.101	0.0854	85	3	70-130	35				
Toluene	< 0.00200	0.100	0.0833	83	0.101	0.0812	80	3	70-130	35				
Ethylbenzene	< 0.00200	0.100	0.0931	93	0.101	0.0905	90	3	71-129	35				
m,p-Xylenes	< 0.00401	0.200	0.163	82	0.201	0.159	79	2	70-135	35				
o-Xylene	< 0.00200	0.100	0.0877	88	0.101	0.0863	85	2	71-133	35				

**Date Prepared:** 06/13/2017 ALJ **Date Analyzed:** 06/13/2017 **Analyst:** 

**Lab Batch ID:** 3019644 **Batch #:** 1 Matrix: Solid **Sample:** 726036-1-BKS

**Units:** mg/kg BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B  Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00200	0.0998	0.0974	98	0.101	0.0885	88	10	70-130	35	
Toluene	< 0.00200	0.0998	0.0962	96	0.101	0.0839	83	14	70-130	35	
Ethylbenzene	< 0.00200	0.0998	0.108	108	0.101	0.0972	96	11	71-129	35	
m,p-Xylenes	< 0.00399	0.200	0.191	96	0.201	0.169	84	12	70-135	35	
o-Xylene	< 0.00200	0.0998	0.101	101	0.101	0.0903	89	11	71-133	35	

Relative Percent Difference RPD = 200\*|(C-F)/(C+F)| Blank Spike Recovery [D] = 100\*(C)/[B]Blank Spike Duplicate Recovery [G] = 100\*(F)/[E]All results are based on MDL and Validated for QC Purposes



mg/kg

**Units:** 

#### **BS / BSD Recoveries**

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY



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Project Name: Concho-Folk Federal Tank Battery

Work Order #: 555002 **Project ID:** 212C-MD-00679

**Date Prepared:** 06/13/2017 **Date Analyzed:** 06/13/2017 **Analyst:** ALJ

**Lab Batch ID:** 3019769 **Sample:** 726090-1-BKS **Batch #:** 1 Matrix: Solid

BTEX by EPA 8021B  Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	< 0.00200	0.0998	0.0856	86	0.100	0.0795	80	7	70-130	35	
Toluene	< 0.00200	0.0998	0.0813	81	0.100	0.0815	82	0	70-130	35	
Ethylbenzene	< 0.00200	0.0998	0.0916	92	0.100	0.0845	85	8	71-129	35	
m,p-Xylenes	< 0.00399	0.200	0.158	79	0.200	0.145	73	9	70-135	35	
o-Xylene	< 0.00200	0.0998	0.0858	86	0.100	0.0821	82	4	71-133	35	

**Date Prepared:** 06/09/2017 **Date Analyzed:** 06/10/2017 **Analyst:** ARM

**Lab Batch ID:** 3019459 **Batch #:** 1 Matrix: Solid Sample: 725909-1-BKS

**Units:** mg/kg BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Gasoline Range Hydrocarbons	<15.0	1000	962	96	1000	990	99	3	70-135	35	
Diesel Range Organics	<15.0	1000	941	94	1000	979	98	4	70-135	35	

Relative Percent Difference RPD = 200\*|(C-F)/(C+F)| Blank Spike Recovery [D] = 100\*(C)/[B]Blank Spike Duplicate Recovery [G] = 100\*(F)/[E]All results are based on MDL and Validated for QC Purposes



#### Form 3 - MS / MSD Recoveries



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Project Name: Concho-Folk Federal Tank Battery

Work Order #: 555002 **Project ID:** 212C-MD-00679

Lab Batch ID:

3019540

**QC- Sample ID:** 554743-001 S

Batch #:

Matrix: Soil

Date Analyzed:

06/12/2017

**Date Prepared:** 06/12/2017

Analyst: ALJ

**Reporting Units:** mg/kg MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	< 0.00336	0.168	0.104	62	0.173	0.0905	52	14	70-130	35	X
Toluene	< 0.00336	0.168	0.0817	49	0.173	0.0767	44	6	70-130	35	X
Ethylbenzene	0.00875	0.168	0.0818	43	0.173	0.0755	39	8	71-129	35	X
m,p-Xylenes	0.0116	0.336	0.132	36	0.346	0.122	32	8	70-135	35	X
o-Xylene	< 0.00336	0.168	0.0811	48	0.173	0.0846	49	4	71-133	35	X

Lab Batch ID:

3019644

**QC- Sample ID:** 555002-005 S

Batch #:

Matrix: Soil

Date Analyzed:

06/13/2017

**Date Prepared:** 06/13/2017

Analyst: ALJ

**Reporting Units:** 

mg/kg

#### MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	< 0.00380	0.190	0.148	78	0.186	0.146	78	1	70-130	35	
Toluene	< 0.00380	0.190	0.117	62	0.186	0.109	59	7	70-130	35	X
Ethylbenzene	< 0.00380	0.190	0.116	61	0.186	0.0977	53	17	71-129	35	X
m,p-Xylenes	< 0.00760	0.380	0.190	50	0.372	0.154	41	21	70-135	35	X
o-Xylene	< 0.00380	0.190	0.128	67	0.186	0.0843	45	41	71-133	35	XF

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B Relative Percent Difference RPD = 200\*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E



#### Form 3 - MS / MSD Recoveries



Page 69 of 110

Project Name: Concho-Folk Federal Tank Battery

Work Order #: 555002 **Project ID:** 212C-MD-00679

Lab Batch ID:

3019769

**QC- Sample ID:** 555092-011 S

Batch #:

Matrix: Soil

Date Analyzed:

06/14/2017

**Date Prepared:** 06/13/2017

Analyst: ALJ

**Reporting Units:** 

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	< 0.00202	0.101	0.0518	51	0.101	0.0436	43	17	70-130	35	X
Toluene	< 0.00202	0.101	0.0452	45	0.101	0.0568	56	23	70-130	35	X
Ethylbenzene	< 0.00202	0.101	0.0385	38	0.101	0.0399	40	4	71-129	35	X
m,p-Xylenes	< 0.00404	0.202	0.0603	30	0.203	0.0707	35	16	70-135	35	X
o-Xylene	< 0.00202	0.101	0.0338	33	0.101	0.0519	51	42	71-133	35	XF

Lab Batch ID:

3019459

**QC- Sample ID:** 555002-001 S

Batch #:

Matrix: Soil

Date Analyzed: **Reporting Units:**  06/10/2017

mg/kg

**Date Prepared:** 06/09/2017

Analyst: ARM

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]	[C]	[D]	[E]	Kesuit [F]	[G]	70	/0K	70KI D	
Gasoline Range Hydrocarbons	379	997	1470	109	998	1440	106	2	70-135	35	
Diesel Range Organics	3350	997	4440	109	998	4450	110	0	70-135	35	

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B Relative Percent Difference RPD = 200\*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy	PHONE:	∺∺	RELINQUISHED BY: (Signature)  Date: RECEIVED BY: (Signature)  Time: RECEIVED BY: (Signature)  Time: Received BY: (Signature)	Time: HECEIVED BY: (Signature)	Time: 6-8-1-7 RECEIVED BY: (Signature)		\$\frac{1}{2}  \frac{1}{2}   \frac{1}{2}   \frac{1}{2}   \frac{1}{2}   \frac{1}{2}   \frac{1}{2}   \frac{1}{2}	6 (0-6") 6" 1853 1N	/ SP# S (0-4") 6"BEB IN X	>   SP# 4 (0-4") 6"BEB IN X	Sp# 3 (0-4") 6"BEB IN X	( SP# 2 (0-4") 6"BERS IN X	1/7/17 S X SP#1 (0-6") 6"BEB 1 N X	0 - 00079 DATE TIME	CLIENT NAME:  SITE MANAGER:  Oncho  PROJECT NAME:  SITE MANAGER:  June 1  PROJECT NAME:  SITE MANAGER:  ONCHO  PROJECT NAME:  SITE MANAGER:  ONCHO  PROJECT NAME:  ONCHO  ONCHO  PROJECT NAME:  ONCHO  ON	1910 N. Big Spring St. Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946		Analysis Request of Chain of Custody Record
Manager retains Pink copy - Accounting receives Gold copy.	the lavert Authorized: Yes		PERSON:	SAMPLE SHIPPED BY: (Girole)  FEDEX  FEDEX  HAND DE IVERED  IPS  OTHER:	SAMPLED BY: (Print & Initial)  Time: 6-7	CF:(0-6: -0.2°C) (6-23: +0.2°C) Corrected Temp:	×	X X	***	, X.	***		* * * * * * * * * * * * * * * * * * * *	BTEX 8021B TPH 8015 MO PAH 8270 RCRA Metals Ag TCLP Metals Ag TCLP Volatiles TCLP Semi Volat RCI GC.MS Vol. 8240 GC.MS Semi. Vo PCB's 8080/608 Pest. 808/608 Chloride Gamma Spec. Alpha Beta (Air) PLM (Asbestos) Major Anions/Ca	DD.) TX1000 J As Ba Cc J As Ba Cc tilles	I Cr Pb Hg Se	ANALYSIS REQUEST (Circle or Specify Method No.)	



# XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Tetra Tech- Midland

Date/ Time Received: 06/08/2017 10:16:00 AM

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Work Order #: 555002

Temperature Measuring device used: R8

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	5.5	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seal present on shipping cont	tainer/ cooler? N/A	
#5 *Custody Seals intact on shipping conta	ainer/ cooler? N/A	
#6 Custody Seals intact on sample bottles	? <b>N/A</b>	
#7 *Custody Seals Signed and dated?	N/A	
#8 *Chain of Custody present?	Yes	
#9 Sample instructions complete on Chain	of Custody? Yes	
#10 Any missing/extra samples?	No	
#11 Chain of Custody signed when relinqu	ished/ received? Yes	
#12 Chain of Custody agrees with sample	label(s)? Yes	
#13 Container label(s) legible and intact?	Yes	
#14 Sample matrix/ properties agree with (	Chain of Custody? Yes	
#15 Samples in proper container/ bottle?	Yes	
#16 Samples properly preserved?	Yes	
#17 Sample container(s) intact?	Yes	
#18 Sufficient sample amount for indicated	test(s)? Yes	
#19 All samples received within hold time?	Yes	
#20 Subcontract of sample(s)?	N/A	
#21 VOC samples have zero headspace?	N/A	

* Must be com	pleted for after-hours de	livery of samples prior to pla	acing in the refrigerator
Analyst:		PH Device/Lot#:	
c	Checklist completed by:	Jessica Warner Jessica Kramer	Date: 06/09/2017
	Checklist reviewed by:	Mmy Moah Kelsey Brooks	Date: 06/09/2017

# **Analytical Report 571930**

for Tetra Tech- Midland

Project Manager: Ike Tavarez
Folk Federal Tank Battery
212C-MD-00679.02
28-DEC-17

Collected By: Client





#### 1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco-Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





28-DEC-17

Project Manager: **Ike Tavarez Tetra Tech- Midland**4000 N. Big Spring Suite 401
Midland, TX 79705

Reference: XENCO Report No(s): 571930

**Folk Federal Tank Battery** Project Address: Eddy Co, NM

#### Ike Tavarez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 571930. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 571930 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Mike Kimmel

Client Services Manager

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# **Sample Cross Reference 571930**



## Tetra Tech- Midland, Midland, TX

Folk Federal Tank Battery

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
BH-1 0-1	S	12-20-17 00:00		571930-001
BH-1 2-3	S	12-20-17 00:00		571930-002
BH-1 4-5	S	12-20-17 00:00		571930-003
BH-1 6-7	S	12-20-17 00:00		Not Analyzed
BH-1 9-10	S	12-20-17 00:00		Not Analyzed
BH-1 14-15	S	12-20-17 00:00		Not Analyzed
BH-1 19-20	S	12-20-17 00:00		Not Analyzed

### CASE NARRATIVE

Client Name: Tetra Tech- Midland Project Name: Folk Federal Tank Battery

Project ID: 212C-MD-00679.02 Report Date: 28-DEC-17

Work Order Number(s): 571930 Date Received: 12/21/2017

#### Sample receipt non conformances and comments:

12/28/17: Revision to project name.

#### Sample receipt non conformances and comments per sample:

None

#### Analytical non conformances and comments:

Batch: LBA-3036802 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Final 1.001



# Certificate of Analysis Summary 571930

Tetra Tech- Midland, Midland, TX

**Project Name: Folk Federal Tank Battery** 



**Project Id:** 212C-MD-00679.02

**Contact:** Ike Tavarez **Project Location:** Eddy Co, NM

**Date Received in Lab:** Thu Dec-21-17 02:48 pm

**Report Date:** 28-DEC-17 **Project Manager:** Kelsey Brooks

	Lab Id:	571930-0	001	571930-0	002	571930-0	003		
Analusia Paguastad	Field Id:	BH-1 0	-1	BH-1 2	-3	BH-1 4	-5		
Analysis Requested	Depth:								
	Matrix:	SOIL		SOIL	,	SOIL			
	Sampled:	Dec-20-17	00:00	Dec-20-17	00:00	Dec-20-17	00:00		
BTEX by EPA 8021B	Extracted:	Dec-22-17	09:30	Dec-22-17	09:30	Dec-22-17	09:30		
	Analyzed:	Dec-22-17	14:38	Dec-22-17	14:57	Dec-22-17	15:15		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene	·	< 0.00199	0.00199	< 0.00198	0.00198	< 0.00201	0.00201		
Toluene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00201	0.00201		
Ethylbenzene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00201	0.00201		
m,p-Xylenes		< 0.00398	0.00398	< 0.00396	0.00396	< 0.00402	0.00402		
o-Xylene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00201	0.00201		
Total Xylenes		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00201	0.00201		
Total BTEX		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00201	0.00201		
TPH By SW8015 Mod	Extracted:	Dec-21-17	16:00	Dec-21-17	16:00	Dec-21-17	16:00		
	Analyzed:	Dec-22-17	05:13	Dec-22-17	05:33	Dec-22-17	05:53		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0		
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0		
Oil Range Hydrocarbons (ORO)		<15.0	15.0	<15.0	15.0	<15.0	15.0		
Total TPH		<15.0	15.0	<15.0	15.0	<15.0	15.0		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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MbeKiC



# **Flagging Criteria**



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- \*\* Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit.
- **RL** Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

**DL** Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- \* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
1211 W Florida Ave, Midland, TX 79701	(432) 563-1800	(432) 563-1713
2525 W. Huntington Dr Suite 102, Tempe AZ 85282	(602) 437-0330	



**Project Name: Folk Federal Tank Battery** 

Work Orders: 571930, 571930

Sample: 571930-001 / SMP

**Project ID:** 212C-MD-00679.02

**Lab Batch #:** 3036677 Matrix: Soil Batch: 1

Units:	mg/kg	<b>Date Analyzed:</b> 12/22/17 05:13	SURROGATE RECOVERY STUDY					
	ТРН	By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooct	ane		86.4	99.7	87	70-135		
o-Terphenyl			44.7	49.9	90	70-135		

**Lab Batch #:** 3036677 Sample: 571930-002 / SMP Batch: Matrix: Soil

**Units:** mg/kg Date Analyzed: 12/22/17 05:33 SURROGATE RECOVERY STUDY **Amount** True Control TPH By SW8015 Mod Found Limits Amount Recovery Flags [A] [B] %R %R [D] **Analytes** 1-Chlorooctane 85.3 99.9 85 70-135 o-Terphenyl 43.5 50.0 87 70-135

**Lab Batch #:** 3036677 Sample: 571930-003 / SMP Batch: Matrix: Soil

**Units:** mg/kg Date Analyzed: 12/22/17 05:53 SURROGATE RECOVERY STUDY

TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.7	99.8	87	70-135	
o-Terphenyl	44.3	49.9	89	70-135	

**Lab Batch #:** 3036802 Sample: 571930-001 / SMP Batch: Matrix: Soil

Units:	mg/kg	<b>Date Analyzed:</b> 12/22/17 14:38	SURROGATE RECOVERY STUDY							
	вте	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
		Analytes			[D]					
1,4-Difluor	robenzene		0.0272	0.0300	91	80-120				
4-Bromoflu	uorobenzene		0.0265	0.0300	88	80-120				

Lab Batch #: 3036802 Sample: 571930-002 / SMP Batch: Matrix: Soil

Units:	mg/kg	<b>Date Analyzed:</b> 12/22/17 14:57	SURROGATE RECOVERY STUDY							
	ВТЕ	X by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1,4-Difluorobenz	zene	Analy Co	0.0268	0.0300	89	80-120				
4-Bromofluorob	enzene		0.0271	0.0300	90	80-120				

<sup>\*</sup> Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



**Project Name: Folk Federal Tank Battery** 

Work Orders: 571930, 571930

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TT... \*4 ...

**Project ID:** 212C-MD-00679.02

**Lab Batch #:** 3036802 Matrix: Soil Sample: 571930-003 / SMP Batch: 1

Units: mg/kg	<b>Date Analyzed:</b> 12/22/17 15:15	SURROGATE RECOVERY STUDY						
B	ΓΕΧ by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorobenzene		0.0280	0.0300	93	80-120			
4-Bromofluorobenzene		0.0256	0.0300	85	80-120			

**Lab Batch #: 3036677 Sample:** 7636450-1-BLK / BLK Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 12/22/17 02:51 SURROGATE RECOVERY STUDY									
	ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1-Chlorooct	ane		80.3	100	80	70-135			
o-Terpheny	1		41.5	50.0	83	70-135			

**Lab Batch #:** 3036802 Sample: 7636560-1-BLK / BLK Batch: Matrix: Solid

**Units:** mg/kg Date Analyzed: 12/22/17 13:03 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0287	0.0300	96	80-120	
4-Bromofluorobenzene	0.0252	0.0300	84	80-120	

**Lab Batch #:** 3036677 **Sample:** 7636450-1-BKS / BKS Batch: 1 Matrix: Solid

Units:	mg/kg	<b>Date Analyzed:</b> 12/22/17 03:10	SURROGATE RECOVERY STUDY							
	ТРН	By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooc	ctane	<del>_</del>	77.3	100	77	70-135				
o-Terpheny	yl		40.7	50.0	81	70-135				

**Lab Batch #:** 3036802 Sample: 7636560-1-BKS / BKS Batch: Matrix: Solid

Units: mg/kg	<b>Date Analyzed:</b> 12/22/17 11:10	SURROGATE RECOVERY STUDY									
В	TEX by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1,4-Difluorobenzene		0.0292	0.0300	97	80-120						
4-Bromofluorobenzene		0.0291	0.0300	97	80-120						

<sup>\*</sup> Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



**Project Name: Folk Federal Tank Battery** 

Work Orders: 571930, 571930 Project ID: 212C-MD-00679.02

**Lab Batch #:** 3036677 **Sample:** 7636450-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units: Date Analyzed:** 12/22/17 03:32 mg/kg SURROGATE RECOVERY STUDY True Control Amount TPH By SW8015 Mod Recovery **Found** Amount Limits Flags [A] [B] %R %R [D]**Analytes** 1-Chlorooctane 79.2 100 79 70-135 o-Terphenyl 50.0 70-135 41.8 84

Lab Batch #: 3036802 Sample: 7636560-1-BSD / BSD Batch: 1 Matrix: Solid

**Units:** mg/kg **Date Analyzed:** 12/22/17 11:28 SURROGATE RECOVERY STUDY **Amount** True Control BTEX by EPA 8021B Found Limits Amount Recovery Flags [A] [B] %R %R [D] **Analytes** 1,4-Difluorobenzene 0.0292 0.0300 97 80-120 4-Bromofluorobenzene 0.0284 0.0300 95 80-120

Units: mg/kg Date Analyzed: 12/22/17 04:14 SURROGATE RECOVERY STUDY

TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	74.4	99.8	75	70-135	
o-Terphenyl	40.5	49.9	81	70-135	

<b>Units:</b>	mg/kg	Date Analyzed: 12/22/17 11:47 SURROGATE RECOVERY STUDY								
	ВТЕ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
		Analytes			[D]					
1,4-Difluor	robenzene		0.0313	0.0300	104	80-120				
4-Bromoflu	uorobenzene		0.0329	0.0300	110	80-120				

Units:	mg/kg	<b>Date Analyzed:</b> 12/22/17 04:34	SURROGATE RECOVERY STUDY								
	ТРН	By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1-Chlorooct	ane		82.6	99.9	83	70-135					
o-Terphenyl			43.6	50.0	87	70-135					

<sup>\*</sup> Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 \* A / B

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



**Project Name: Folk Federal Tank Battery** 

**Work Orders :** 571930, 571930 **Project ID:** 212C-MD-00679.02

**Lab Batch #:** 3036802 **Sample:** 571876-002 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units: Date Analyzed:** 12/22/17 12:06 mg/kg SURROGATE RECOVERY STUDY Amount True Control BTEX by EPA 8021B Found Amount Limits Flags Recovery [A] [B] %R %R [D] **Analytes** 1,4-Difluorobenzene 0.0322 0.0300 107 80-120 4-Bromofluorobenzene 103 0.0309 0.0300 80-120

Surrogate Recovery [D] = 100 \* A / B

<sup>\*</sup> Surrogate outside of Laboratory QC limits

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



mg/kg

**Units:** 

## **BS / BSD Recoveries**

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY



Page 82 of 110

Project Name: Folk Federal Tank Battery

**Work Order #:** 571930, 571930 **Project ID:** 212C-MD-00679.02

**Date Prepared:** 12/22/2017 **Date Analyzed:** 12/22/2017 **Analyst:** ALJ

**Lab Batch ID:** 3036802 Sample: 7636560-1-BKS **Batch #:** 1 Matrix: Solid

								1120011			
BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Benzene	< 0.00198	0.0990	0.0915	92	0.0994	0.0894	90	2	70-130	35	
Toluene	< 0.00198	0.0990	0.0852	86	0.0994	0.0831	84	2	70-130	35	
Ethylbenzene	< 0.00198	0.0990	0.0925	93	0.0994	0.0913	92	1	71-129	35	
m,p-Xylenes	< 0.00396	0.198	0.182	92	0.199	0.180	90	1	70-135	35	
o-Xylene	< 0.00198	0.0990	0.0851	86	0.0994	0.0849	85	0	71-133	35	

**Date Prepared:** 12/21/2017 ARM **Date Analyzed:** 12/22/2017 **Analyst:** 

**Lab Batch ID:** 3036677 **Batch #:** 1 Matrix: Solid **Sample:** 7636450-1-BKS

**Units:** mg/kg BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	813	81	1000	851	85	5	70-135	35	
Diesel Range Organics (DRO)	<15.0	1000	845	85	1000	866	87	2	70-135	35	

Relative Percent Difference RPD = 200\*|(C-F)/(C+F)| Blank Spike Recovery [D] = 100\*(C)/[B]Blank Spike Duplicate Recovery [G] = 100\*(F)/[E]All results are based on MDL and Validated for QC Purposes



#### Form 3 - MS / MSD Recoveries



Page 83 of 110

Project Name: Folk Federal Tank Battery

**Work Order #:** 571930

**Project ID:** 212C-MD-00679.02

Lab Batch ID:

3036802

**QC- Sample ID:** 571876-002 S

Batch #:

Matrix: Soil

Date Analyzed:

12/22/2017

**Date Prepared:** 12/22/2017

Analyst: ALJ

**Reporting Units:** 

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	< 0.00198	0.0990	0.0745	75	0.0994	0.0688	69	8	70-130	35	X
Toluene	< 0.00198	0.0990	0.0674	68	0.0994	0.0613	62	9	70-130	35	X
Ethylbenzene	< 0.00198	0.0990	0.0717	72	0.0994	0.0652	66	9	71-129	35	X
m,p-Xylenes	< 0.00396	0.198	0.141	71	0.199	0.128	64	10	70-135	35	X
o-Xylene	< 0.00198	0.0990	0.0666	67	0.0994	0.0614	62	8	71-133	35	X

Lab Batch ID:

3036677

**QC- Sample ID:** 571800-013 S

0-013 S

1 Matrix: Soil

Date Analyzed:

12/22/2017

**Date Prepared:** 12/21/2017

Analyst: ARM

Batch #:

**Reporting Units:** mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Parent Sample Result	Spike	Spiked Sample Result	Sample		Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag
Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Gasoline Range Hydrocarbons (GRO)	<15.0	998	823	82	999	830	83	1	70-135	35	
Diesel Range Organics (DRO)	<15.0	998	851	85	999	853	85	0	70-135	35	

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B Relative Percent Difference RPD = 200\*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

Received by OCD: 3/25/2024 1:14:34 PM Invoice to: Relinquished by: relinquished by: Client Name: **Analysis Request of Chain of Custody Record** comments: Receiving Laboratory: county, state) roject Name roject Location LAB USE LAB# nquished by: 븕 0 RUS 200 1 1 -Maper JAN KO letra Tech, Inc. 9/10 SAMPLE IDENTIFICATION ヒント 19-20 5 20000CP 000 Date: Date: Time: Time: DENZEN ところう ORIGINAL COPY Site Manager: Sampler/Signature: Received by: DATE 5 SAMPLING 10 mg/ Kg oware 2 TIME WATER Co. Pra00 MATRIX 4000 N. Big Spring Street, Ste 401 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946 SOIL ささら Date: Date: HCL PRESERVATIVE METHOD HNO<sub>3</sub> かくたべ ICE Time: 8400000 # CONTAINERS FILTERED (Y/N) (Circle) HANI Sample Temperature BTEX 8021B BTEX 8260B LAB USE ONLY TPH TX1005 (Ext to C35) TPH 8015M (GRO - DRO - ORO - MAC) (Circle or Specify Method No. Total Metals Ag As Ba Cd Cr Pb Se Hg (6-23: +0.2°C) Corrected Temp: CF:(0-6: -0.2°C Temp: TCLP Metals Ag As Ba Cd Cr Pb Se Hg REMARKS: TCLP Volatiles **ANALYSIS REQUEST** RUSH: Same Day 24 hr 48 hr 72 hr TCLP Semi Volatiles GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM IR ID:R-8 PLM (Asbestos) Chloride Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance Released to Imaging: 4/1/2024 3:43 52 PM Hold



# XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Tetra Tech- Midland

Date/ Time Received: 12/21/2017 02:48:00 PM

Checklist completed by:

Shawnee Smith

Checklist reviewed by:

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Date: 12/21/2017

Date: 12/27/2017

Work Order #: 571930

Temperature Measuring device used: R8

Work Order #: 37 1930	•	•	
	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		-1	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contain	iner/ cooler?	No	
#5 Custody Seals intact on sample bottles?		N/A	
#6*Custody Seals Signed and dated?		N/A	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquish	ned/ received?	Yes	
#10 Chain of Custody agrees with sample la	abels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated	test(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		No	
#18 Water VOC samples have zero headsp	pace?	N/A	
* Must be completed for after-hours delive	ery of samples prior to placing in	the refriger	ator
Analyst:	PH Device/Lot#:		



December 22, 2023

CHRISTIAN LLULL
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: FOLK FEDERAL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/20/23 12:41.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

 Received:
 12/20/2023
 Sampling Date:
 12/19/2023

 Reported:
 12/22/2023
 Sampling Type:
 Soil

Reported: 12/22/2023 Sampling Type: Soil
Project Name: FOLK FEDERAL TANK BATTERY Sampling Condition: Cool

Project Name: FOLK FEDERAL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03291 Sample Received By: Tamara Oldaker

A ..... I ..... . J D. ... 711

Project Location: EDDY COUNTY, NEW MEXICO

#### Sample ID: HA - 1 (0-1') (H236780-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2023	ND	2.47	124	2.00	1.34	
Toluene*	<0.050	0.050	12/22/2023	ND	2.27	113	2.00	0.471	
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.33	116	2.00	1.39	
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.85	114	6.00	2.00	
Total BTEX	<0.300	0.300	12/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/22/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	214	107	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	218	109	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					
Surrogate: 1-Chlorooctane	82.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.0	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey & Keene



#### Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 12/20/2023 Sampling Date: 12/19/2023

Reported: 12/22/2023 Sampling Type: Soil

Project Name: FOLK FEDERAL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03291 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: EDDY COUNTY, NEW MEXICO

#### Sample ID: HA - 2 (0-1') (H236780-02)

BTEX 8021B

DIEX GOZID	11197	ng .	Alldiyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2023	ND	2.47	124	2.00	1.34	
Toluene*	<0.050	0.050	12/22/2023	ND	2.27	113	2.00	0.471	
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.33	116	2.00	1.39	
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.85	114	6.00	2.00	
Total BTEX	<0.300	0.300	12/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/22/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	214	107	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	218	109	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					
Surrogate: 1-Chlorooctane	89.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 12/20/2023 Sampling Date: 12/19/2023

Reported: 12/22/2023 Sampling Type: Soil

Project Name: FOLK FEDERAL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03291 Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NEW MEXICO

#### Sample ID: HA - 3 (0-1') (H236780-03)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2023	ND	2.47	124	2.00	1.34	
Toluene*	<0.050	0.050	12/22/2023	ND	2.27	113	2.00	0.471	
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.33	116	2.00	1.39	
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.85	114	6.00	2.00	
Total BTEX	<0.300	0.300	12/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/22/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	214	107	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	218	109	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					
Surrogate: 1-Chlorooctane	99.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

#### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 12/20/2023 Sampling Date: 12/19/2023

Reported: 12/22/2023 Sampling Type: Soil

Project Name: FOLK FEDERAL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03291 Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NEW MEXICO

#### Sample ID: HA - 4 (0-1') (H236780-04)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2023	ND	2.47	124	2.00	1.34	
Toluene*	< 0.050	0.050	12/22/2023	ND	2.27	113	2.00	0.471	
Ethylbenzene*	< 0.050	0.050	12/22/2023	ND	2.33	116	2.00	1.39	
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.85	114	6.00	2.00	
Total BTEX	<0.300	0.300	12/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/22/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	214	107	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	218	109	200	1.21	
EXT DRO >C28-C36	10.0	10.0	12/22/2023	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	18						

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Celey & Keene



#### Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100

MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 12/20/2023 Sampling Date: 12/19/2023

Reported: 12/22/2023 Sampling Type: Soil

Project Name: FOLK FEDERAL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03291 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: EDDY COUNTY, NEW MEXICO

#### Sample ID: HA - 5 (0-1') (H236780-05)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2023	ND	2.47	124	2.00	1.34	
Toluene*	<0.050	0.050	12/22/2023	ND	2.27	113	2.00	0.471	
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.33	116	2.00	1.39	
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.85	114	6.00	2.00	
Total BTEX	<0.300	0.300	12/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/22/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	214	107	200	2.96	
DRO >C10-C28*	22.7	10.0	12/22/2023	ND	218	109	200	1.21	
EXT DRO >C28-C36	17.0	10.0	12/22/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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Celey D. Keine



#### Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 12/20/2023 Sampling Date: 12/20/2023

Reported: 12/22/2023 Sampling Type: Soil

Project Name: FOLK FEDERAL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03291 Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NEW MEXICO

#### Sample ID: T - 1 (0-0.5') (H236780-06)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2023	ND	2.47	124	2.00	1.34	
Toluene*	<0.050	0.050	12/22/2023	ND	2.27	113	2.00	0.471	
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.33	116	2.00	1.39	
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.85	114	6.00	2.00	
Total BTEX	<0.300	0.300	12/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/22/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2023	ND	197	98.6	200	2.66	
DRO >C10-C28*	1440	10.0	12/21/2023	ND	200	100	200	0.221	QM-07
EXT DRO >C28-C36	732	10.0	12/21/2023	ND					
Surrogate: 1-Chlorooctane	121	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	132	% 49.1-14	8						

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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: 12/20/2023 Sampling Date: 12/20/2023

Reported: Sampling Type: Soil 12/22/2023

Project Name: FOLK FEDERAL TANK BATTERY Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C-MD-03291 Sample Received By:

Project Location: EDDY COUNTY, NEW MEXICO

#### Sample ID: T - 1 (0.5'-1') (H236780-07)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2023	ND	2.40	120	2.00	3.09	
Toluene*	<0.050	0.050	12/21/2023	ND	2.25	112	2.00	2.33	
Ethylbenzene*	<0.050	0.050	12/21/2023	ND	2.30	115	2.00	3.23	
Total Xylenes*	<0.150	0.150	12/21/2023	ND	6.91	115	6.00	3.50	
Total BTEX	<0.300	0.300	12/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/22/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2023	ND	197	98.6	200	2.66	
DRO >C10-C28*	1270	10.0	12/21/2023	ND	200	100	200	0.221	
EXT DRO >C28-C36	585	10.0	12/21/2023	ND					
Surrogate: 1-Chlorooctane	127 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	140 9	% 49.1-14	8						

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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: 12/20/2023 Sampling Date: 12/20/2023

Reported: 12/22/2023 Sampling Type: Soil

Project Name: FOLK FEDERAL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03291 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: EDDY COUNTY, NEW MEXICO

#### Sample ID: T - 1 (1'-1.5') (H236780-08)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2023	ND	2.40	120	2.00	3.09	
Toluene*	<0.050	0.050	12/21/2023	ND	2.25	112	2.00	2.33	
Ethylbenzene*	<0.050	0.050	12/21/2023	ND	2.30	115	2.00	3.23	
Total Xylenes*	<0.150	0.150	12/21/2023	ND	6.91	115	6.00	3.50	
Total BTEX	<0.300	0.300	12/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/22/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2023	ND	197	98.6	200	2.66	
DRO >C10-C28*	656	10.0	12/21/2023	ND	200	100	200	0.221	
EXT DRO >C28-C36	377	10.0	12/21/2023	ND					
Surrogate: 1-Chlorooctane	119	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128	% 49.1-14	8						

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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: 12/20/2023 Sampling Date: 12/20/2023

Reported: Sampling Type: Soil 12/22/2023

Project Name: FOLK FEDERAL TANK BATTERY Sampling Condition: Cool & Intact Project Number: Sample Received By: 212C-MD-03291 Tamara Oldaker

Applyzod By: 14

Project Location: EDDY COUNTY, NEW MEXICO

#### Sample ID: T - 1 (1.5'-2') (H236780-09)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2023	ND	2.40	120	2.00	3.09	
Toluene*	<0.050	0.050	12/21/2023	ND	2.25	112	2.00	2.33	
Ethylbenzene*	<0.050	0.050	12/21/2023	ND	2.30	115	2.00	3.23	
Total Xylenes*	<0.150	0.150	12/21/2023	ND	6.91	115	6.00	3.50	
Total BTEX	<0.300	0.300	12/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/22/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2023	ND	197	98.6	200	2.66	
DRO >C10-C28*	458	10.0	12/21/2023	ND	200	100	200	0.221	
EXT DRO >C28-C36	242	10.0	12/21/2023	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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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: 12/20/2023 Sampling Date: 12/20/2023

Reported: 12/22/2023 Sampling Type: Soil

Project Name: FOLK FEDERAL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 212C-MD-03291 Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NEW MEXICO

#### Sample ID: T - 1 (2'-2.25') (H236780-10)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2023	ND	2.40	120	2.00	3.09	
Toluene*	<0.050	0.050	12/21/2023	ND	2.25	112	2.00	2.33	
Ethylbenzene*	<0.050	0.050	12/21/2023	ND	2.30	115	2.00	3.23	
Total Xylenes*	<0.150	0.150	12/21/2023	ND	6.91	115	6.00	3.50	
Total BTEX	<0.300	0.300	12/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/22/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2023	ND	197	98.6	200	2.66	
DRO >C10-C28*	68.9	10.0	12/21/2023	ND	200	100	200	0.221	
EXT DRO >C28-C36	21.9	10.0	12/21/2023	ND					
Surrogate: 1-Chlorooctane	94.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.5	% 49.1-14	8						

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#### **Notes and Definitions**

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

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Corrected Temp. °C

Sample Condit
Cool Intact
Wes Tes

CHECKED BY: (Initials)

Rush: N/A

rection Factor 0.8°C #/40

Ves Yes

Relinquished By:

1241

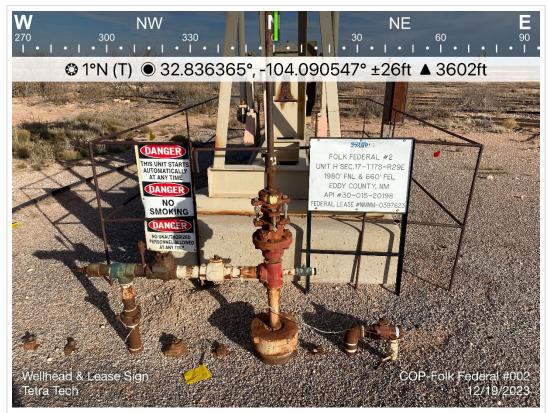


# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tetra Tech	Tetra Tech										ь	Ë	BILL TO					ANAI	YSIS	ANALYSIS REQUEST	UEST				
Project Manager: Christian Llull	Christian Llull								P.O. #:	#															
Address: 8911 Ca	Address: 8911 Capital c Texas Hwy, Suite 2310								Com	pan	y: T	etra	Company: Tetra Tech											_	
City: Austin	State: TX	Zip:							Attn: Christian Llu	Ch	risti	an L	lu.									_			
Phone #:	(512)565-0190 Fax #:						- 1		Address: EMAIL	ess	E	A													
Project #:	212C-MD-03291 Project Owner:			0	ConocoPhillips	coPl			City:																
Project Name: Fol	Project Name: Folk Federal Tank Battery								State:			2	Zip:				В								
Project Location:	Project Location: Eddy County, New Mexico							_	Phone #:	ne #	"			7			CI-								
Sampler Name: Colton Bickerstaff	olton Bickerstaff				-		- 1	_	Fax #:	#		- 1					000								
OR LAB USE ONLY		7		П	11	MATRIX	RIX	11	P	PRESERV.	RV.	Н	SAME	SAMPLING		3	45								
ab I.D.	Sample ID	(C)OMP.	ERS	ATER	ER										015M	8021B	le SM								
1236780	odinpie i.b.	(G)RAB OR	# CONTAINE	GROUNDWA	WASTEWAT	SOIL	OIL	SLUDGE	OTHER : ACID/BASE:		OTHER:		DATE	TIME	TPH 80	BTEX	Chlorid								
1	HA-1 (0-1')	G	-			×	_		-	X	^	_	12/19/2023		X	X	X								
w	HA-2 (0-1')	G	1			×	7		_	X	^		12/19/2023		X	X	X								
2	3 HA-3 (0-1')	G	1			×	_		_	X	^		12/19/2023		X	Χ.	X								
4	HA-4 (0-1')	G	1			×	_			X	^	_	12/19/2023		X	X	X								
~	HA-5 (0-1')	G	-			×			Н	X	^		12/19/2023		X	X	X								
6	T-1 (0-0.5')	G	1			×	-		-	X	^	_	12/20/2023		X	X	X								
4	T-1 (0.5'-1')	G	1			×			_	X	^	_	12/20/2023		X	X	X								
σς	T-1 (1'-1.5')	G	-			×	_		-	X	^		12/20/2023		X	X	X								
9	T-1 (1.5'-2')	G	1			×	_		_	X	^	_	12/20/2023		X	X	X								
10	T-1 (2'-2.25')	G	_			$\times$	_		_	X	^		12/20/2023		X	X	X				-				
EASE NOTE: Liability and Dan ent shall Cardinal be liable fo lifetes or successors arising	NEASE NOTE: Labily and Damages. Custodis labily and dests excluse recept to any dain autory where based in consist or but oalls indicate the accordance to the analyses. All claims including those for negligence and any other cause whatevers shall be recent that Control that be before including the consequential damages, including without inflavor, bases as leastly one, to be as of profits incrured by offer, its subsidiaries, and the consequential damages, including without inflavor, bases as leastly one, the safe of profits incrured by offer, its subsidiaries, and the safe of	or based interruj ardiess o	in contra ptions, k	ct or ton	shall to se, or l	x limite loss of is base	to the profits	amount nounte any of	paid by d by clin the abo	the cli- ent, its	ent for the subsided real	e and laries,	alyses. All clair ir otherwise.	ns including those for	negligence	and any oth	er cause wh	atsoever sha	Il be deeme	d waived un	less made i	witing an	received by	Cardinal wi	be deemed valved unless made in writing and received by Cardinal within 30 days after completion of the
elinquished By:	Relinquished By: Colton Bickerstaff Date: 12/20/23	Rec	Received By:	d B	-					1	V		1	Verbal Result:		io I	No		Add'I P	hone #:			□ No Add'I Phone #:		
								è					-	All Results are ema	emailed	•	P DLOAL	€ Emal	addres	SINGS	Tan L	Platem	och com		

# **APPENDIX E Photographic Documentation**



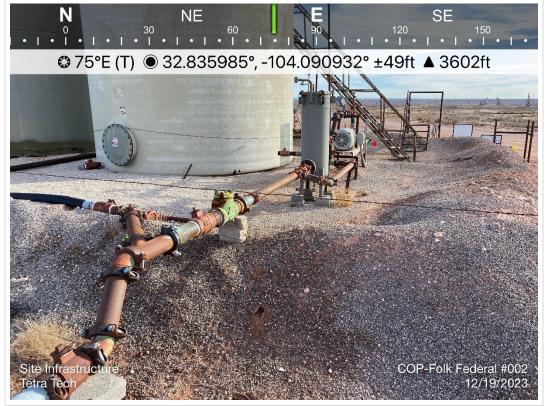
TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View north. View of well head.	1
212C-MD-03291	SITE NAME	Folk Federal #002 Release	12/19/2023



TETRA TECH, INC.	DESCRIPTION	View southwest. View of tank batteries and subsurface lines.	2
PROJECT NO. 212C-MD-03291	SITE NAME	Folk Federal #002 Release	12/19/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View northwest. View of site conditions and view of approximate release area.	3
212C-MD-02832	SITE NAME	Folk Federal #002 Release	12/19/2023



TETRA TECH, INC.	DESCRIPTION	View east. View of site conditions and view of approximate release area.	4
PROJECT NO. 212C-MD-02832	SITE NAME	Folk Federal #002 Release	12/19/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View north. View northwest of production equipment.	5
212C-MD-03291	SITE NAME	Folk Federal #002 Release	12/19/2023



TETRA TECH, INC. DESCRIPTION PROJECT NO.	View north. View inside tank battery berm and production equipment.	6	
212C-MD-03291	SITE NAME	Folk Federal #002 Release	12/19/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View south. View of tank batteries and surface steel lines.	7
212C-MD-03291	SITE NAME	Folk Federal #002 Release	12/9/2023



TETRA TECH, INC. DESCRIPTION PROJECT NO.	View north northeast. View of assessment activities.	8	
212C-MD-03291	SITE NAME	Folk Federal #002 Release	12/20/2023

<u>District I</u> 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

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** 

QUESTIONS

Action 326431

#### **QUESTIONS**

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	326431
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1630550256
Incident Name	NAB1630550256 FOLK FEDERAL #002 @ 30-015-20198
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-20198] FOLK FEDERAL #002

Location of Release Source		
Please answer all the questions in this group.		
Site Name FOLK FEDERAL #002		
Date Release Discovered 10/14/2016		
Surface Owner Federal		

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

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Cause: Corrosion   Tank (Any)   Crude Oil   Released: 18 BBL   Recovered: 16 BBL   Lost: 2 BBL.	
Produced Water Released (bbls) Details	Not answered.	
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

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<u>District IV</u> 1220 S. St Francis Dr., Santa Fe, NM 87505

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

QUESTIONS, Page 2

Action 326431

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUEST	TONS (continued)
Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
QUESTIONS	[C-141] Oile Orial Memediadon Fian C-141 (C-141-V-1 lan)
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a	T
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	diation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o eted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required eases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Christian LLuLL Title: Project Manager

Email: christian.llull@tetratech.com

Date: 03/25/2024

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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**

QUESTIONS, Page 3

Action 326431

**QUESTIONS** (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	326431
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	Direct Measurement	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)	
Any other fresh water well or spring	Greater than 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 1 and 5 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	High	
A 100-year floodplain	Between 1 and 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan		
Please answer all the questions that apply or are indicated. This	information must be provided to	the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this sul	omission	Yes
Attach a comprehensive report demonstrating the lateral and ver	tical extents of soil contamination	associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination	been fully delineated	Yes
Was this release entirely contained within a lined con	tainment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		ligrams per kilograms.)
Chloride (EPA 300.0 or SM45	000 CI B)	48
TPH (GRO+DRO+MRO) (EPA SW-846 Method	8015M)	14900
GRO+DRO (EPA SW-846 Metho	od 8015M)	13930
BTEX (EPA SW-846 Metho	od 8021B or 8260B)	504
Benzene (EPA SW-846 Meth	od 8021B or 8260B)	7.7
Per Subsection B of 19.15.29.11 NMAC unless the site character which includes the anticipated timelines for beginning and comp		efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commer	ice	05/25/2024
On what date will (or did) the final sampling or liner in	spection occur	05/28/2024
On what date will (or was) the remediation complete(	d)	05/29/2024
What is the estimated surface area (in square feet) th	at will be reclaimed	3049
What is the estimated volume (in cubic yards) that wil	I be reclaimed	226
What is the estimated surface area (in square feet) th	at will be remediated	3049
What is the estimated volume (in cubic yards) that wil	I be remediated	226
These estimated dates and measurements are recognized to be t	he best guess or calculation at the	time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remediation measures may h	nave to be minimally adjusted in a	ccordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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Phone:(505) 334-6178 Fax:(505) 334-6170 <u>District IV</u>
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

QUESTIONS, Page 4

Action 326431

#### QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	326431
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

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

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

I hereby agree and sign off to the above statement

Name: Christian LLuLL Title: Project Manager

Email: christian.llull@tetratech.com Date: 03/25/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 326431

<b>QUESTIONS</b>	(continued)
QUESTIONS!	(COHUHUCU)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	326431
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

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

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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**

QUESTIONS, Page 6

Action 326431

QUESTIONS (continued)		
	OGRID:	
COG OPERATING LLC	229137	
600 W Illinois Ave	Action Number:	
Midland, TX 79701	326431	

Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

Operator:

Sampling Event Information		
Last sampling notification (C-141N) recorded	{Unavailable.}	
Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	No	

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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 326431

#### **CONDITIONS**

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	326431
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation work plan approved. If pressurized lines are found within the excavated areas, based and wall samples will need to be collected from the 4-ft buffer zones. If contamination is found within the 4-ft buffer zones, it will need to be removed utilizing hand shovels or a hydrovac.	4/1/2024
bhall	Submit a complete report through the OCD Permitting website by July 31, 2024.	4/1/2024