



April 17, 2024

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

**Re: Closure Report
ConocoPhillips Company (Heritage COG Operating, LLC)
Windward Federal #001H
Unit Letter D, Section 30, Township 24 South, Range 32 East
Lea County, New Mexico
Incident ID# nOY1721336457**

Ms. Hall:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (ConocoPhillips) to assess a Heritage COG Operating, LLC (Concho) release that occurred at a flowline associated with the Windward Federal #001H well (API No. 30-025-41414). The release footprint is located in Public Land Survey System (PLSS) Unit Letter D, Section 30, Township 24 South, Range 32 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.194551°, -103.720252°, as shown on Figures 1 and 2.

BACKGROUND

According to the NMOCD C-141 Initial Report, the release occurred on July 25, 2017 when a flowline associated with the Windward Federal #001H well ruptured and released 70 bbls of produced water into the pipeline rights-of-way. Approximately 60 bbls of fluids were recovered with a vacuum truck. The NMOCD assigned this release the Incident ID nOY1721336457 and the remediation permit number 1RP-4772. A copy of the C-141 is included as Appendix A.

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

The Windward Federal #001H release (nOY1721336457) footprint coincides with three additional flowline release incidents associated with the King Tut Federal #001H well (nAB1905046526 and nKL1630650239), and the King Tut Federal #003H release (nOY1713048453), respectively. Separate closure reports will be submitted for the other three incidents.

SITE CHARACTERIZATION

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

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According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there is one (1) water well located within ½ mile (800 meters) of the Site at a depth of 120 feet bgs with no groundwater elevation reported. This dry water well provides a reasonable determination to establish groundwater as greater than 100 bgs in the ½ mile radius. The minimum depth to groundwater based on data from one (1) well located approximately 1.26 miles (2,028 meters) away from the Site is 135 feet below ground surface (bgs). The site characterization data are presented in Appendix B.

REGULATORY FRAMEWORK

Based upon the release footprint location 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, depth to groundwater, and in accordance with Table I of 19.15.29.12 NMAC, the recommended remedial action levels (RRALs) for the Site are as follows:

Constituent	Site RRALs
Chloride	20,000 mg/kg
TPH	2,500 mg/kg
BTEX	50 mg/kg

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

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

INITIAL SITE ASSESSMENT AND 2018 CLOSURE REQUEST

On August 15, 2017, Tetra Tech conducted assessment soil sampling at the Site on behalf of Concho. A total of eight (8) boreholes (BH-1 through BH-8) were installed using an air rotary drill rig to depths ranging from 10-25 feet bgs. The sampling locations are presented in Figure 3. The analytical results from the August 2017 soil sampling activities are summarized in Table 1.

Based on the analytical results of the August 2017 assessment sampling, a Work Plan dated September 21, 2017 was submitted to the NMOCD. This Work Plan incorporated all three release extents in the assessment. The Work Plan proposed excavating the release areas with elevated chloride concentrations to approximately 4 feet below surface and installing a 20-mil liner at the base of the excavation. The NMOCD conditionally approved the Work Plan in an email dated October 12, 2017. A copy of regulatory correspondence is included in the NMOCD online permitting files.

During preparations to begin the remediation activities, it was discovered that a second pipeline had been installed by Plains Pipeline adjacent to the first identified pipeline in the release footprint. In order to evaluate the soil after the pipeline installation activities, Tetra Tech returned to the Site on July 27, 2018 to collect additional samples. A total of six (6) auger holes (AH-1 through AH-6) were installed in the areas of boreholes BH-1, BH-2, BH-3, BH-6, BH-7, and BH-8. The sampling locations are presented in Figure 3. The analytical results from the July 2018 soil sampling activities are summarized in Table 1.

Tetra Tech prepared a Closure Report on behalf of Concho dated November 7, 2018 summarizing the assessment sampling results. That same Closure Report was submitted for each individual incident (nAB1905046526, nOY1713048453, and nOY1721336457). The analytical results from the July 2018 soil sampling event were below the Site RRALs for all constituents. Chloride concentrations in samples

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collected from auger holes AH-4, AH-5, and AH-6 exceeded the reclamation requirement of 600 mg/kg in surface soils (0-4 feet bgs). Closure was requested due to safety concerns around the Plains Pipeline infrastructure and soil analytical results below the Site RRALs. Chloride impacts are minimal at the total depth within the deepest assessment boring (BH-8). The analytical results from the sample collected from the 24-25 bgs interval (782 mg/kg) were slightly above the most stringent chloride reclamation requirement and well below the RRAL of 20,000 mg/kg. Surficial impacts were confined to areas within the Plains rights-of-way.

The NMOCD rejected each individual Closure Report in emails dated December 9, 2022 with the following comments:

- *“Request for closure denied. Several sample locations are above the reclamation standard of 600 mg/kg for chloride in the upper 4 feet of the impacted area. If necessary, a deferral of the remediation and reclamation could be requested until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first. A 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.*
- *1RP-4772 closed. Remediation required. See incident #nOY1721336457 for more information.*
- *Please submit a complete report through the OCD Permitting website by 03/10/2023.”*

The NMOCD approved an individual request for a 90-day extension to June 10, 2023 in an email dated March 10, 2023. A copy of regulatory correspondence is included in the NMOCD online permitting files.

2023 HORIZONTAL DELINEATION SAMPLING AND DEFERRAL REQUEST

Following receipt of the NMOCD rejection of the 2018 Closure Report, Tetra Tech conducted additional assessment sampling at the Site on behalf of ConocoPhillips in order to complete horizontal delineation of the release. On May 5, 2023 Tetra Tech installed eleven (11) hand auger borings (AH-23-1 through AH-23-11) along the perimeter of the reported release extent to complete horizontal delineation. The 2023 boring locations are shown on Figure 4. Photographic documentation of the release area at the time of the horizontal delineation sampling demonstrates established uniform vegetative cover that reflects a life-form ratio of plus or minus fifty percent of pre-disturbance levels (Appendix D).

A total of eleven (11) soil samples were collected and sent to Cardinal Laboratories in Midland, Texas to be analyzed for chloride via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8261B. Analytical results from the 2023 horizontal delineation soil assessment activities are summarized in Table 2. All analytical results were below the applicable Site RRALs for all constituents.

Tetra Tech prepared a Revised Deferral Request dated May 26, 2023 on behalf of ConocoPhillips based on the results of the additional assessment results and the comments provided by the NMOCD in the December 9, 2022 closure rejection email. The NMOCD rejected the deferral request in an email dated June 6, 2023 with the following comments:

- *“Deferral denied. There is another open incident for a release that occurred in the same area under incident #NAB1905046526. The release occurred on 2/8/2019. A closure request was submitted 7/22/2019 and subsequently denied by both the BLM and OCD on 8/15/2019. Per 19.15.29.12 C. (3) “The responsible party shall remediate the impacted surface area of a release not occurring on a lined, bermed or otherwise contained exploration, development, production or storage site to meet the standards of Table I of 19.15.29.12 NMAC or other applicable remediation standards and restore and reclaim the area pursuant to 19.15.29.13 NMAC.” Remediation can take place by using hand hovels, hydrovac, etc. to safely remove contaminated soil around the pipelines. In-situ remediation can also be utilized as long as the remediation plan is approved by the OCD prior to implementation.*
- *Submit a complete report through the OCD Permitting website by 9/6/2023.”*

An extension request to December 5, 2023 was granted in an email dated September 12, 2023. A copy of regulatory correspondence is included in the NMOCD online permitting files.

2023 ADDITIONAL ASSESSMENT ACTIVITIES

Tetra Tech conducted additional assessment sampling on behalf of ConocoPhillips within the release extent to evaluate current soil concentration levels. On September 7, 2023, Tetra Tech personnel installed nine (9) hand auger borings (AH-23-12 through AH-23-20) within the combined release extent at the locations that had elevated soil chloride concentrations in the August 2017 sampling event. The 2023 sampling locations are presented in Figure 4.

A total of forty-five (45) soil samples were collected and sent to Cardinal Laboratories in Midland, Texas to be analyzed for chloride via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8261B.

Analytical results from the 2023 vertical delineation soil assessment are summarized in Table 3. Chloride concentrations were detected in surface soils (0-4 feet bgs) at all nine boring locations at levels above the reclamation limit of 600 mg/kg. There were no analytical results exceeding the chloride RRAL of 20,000 mg/kg. All analytical results were below the reclamation limits and Site RRALs for all other constituents.

REMEDATION WORK PLAN AND REGULATORY APPROVAL

Tetra Tech, on behalf of ConocoPhillips, prepared a Remediation Work Plan dated November 20, 2023 and submitted it to the NMOCD and the BLM for approval. The Remediation Work Plan described the results of the assessment activities and proposed to remove soils that exceeded the Site reclamation limits and RRALs as determined by the results of the assessment activities. The Remediation Work Plan also included a variance request to leave impacted surface (upper four feet) soils (with concentrations greater than the reclamation limit of 600 mg/kg) in place at specific areas that are overlain with 2-3 feet of clean topsoil.

The Remediation Work Plan and variance request were approved via email by Brittany Hall of the NMOCD on Wednesday, January 17, 2024, with the following conditions:

- *“Remediation plan and variance request are conditionally approved. If the horizontal extents of the release remediation excavation extend beyond AH-23-12, AH-23-13, and AH-23-20; then these areas will need to be addressed at time of remediation as there are no horizontal delineation points that meet the most stringent closure criteria in the upper four feet east of AH-23-15 and the horizontal delineation points are 70+ feet west of AH-23-20.*
- *Wall samples along any 4 foot buffer area of buried pressurized lines will need to be collected and analyzed for all constituents listed in Table I.*
- *Submit a complete report through the OCD Permitting website by 4/17/2023.”*

The Remediation Work Plan was approved verbally and reiterated via email by Shelly Taylor of the BLM on Wednesday, April 3, 2024. Copies of the regulatory correspondence is included in Appendix C.

REMEDIAL ACTIVITIES AND CONFIRMATION SAMPLING

From March 20 through April 3, 2024, Tetra Tech personnel were onsite to supervise the remedial activities proposed in the approved Remediation Work Plan, including excavation, disposal, and confirmation sampling. Prior to confirmation sampling, on March 21, 2024, the NMOCD district office was notified via the OCD Portal in accordance with Subsection D of 19.15.29.12 NMAC. Documentation of associated regulatory correspondence is included in Appendix C.

Impacted soils were excavated as indicated in Figure 5. The areas within the release footprint were excavated to a maximum depth of 4 feet below surrounding grade. Due to safety concerns associated with working around pressurized lines, impacted soils were excavated by hand or hydro-excavation within 4 feet

of subsurface lines. Heavy machinery remained outside this buffer zone to avoid any associated risk or disturbance. Photographs from the excavated areas prior to backfill are provided in Appendix D. Following excavation, confirmation floor and sidewall samples were collected and submitted for laboratory analysis to verify efficacy of remediation activities. Per the NMOCD approved confirmation sampling plan, confirmation samples were collected such that each discrete sample (sidewall and floor) was representative of no more than 200 square feet of excavated area. Seven (7) confirmation floor sample locations and eight (8) confirmation sidewall sample locations were collected for laboratory analysis during remedial activities. Confirmation sidewall sample locations were categorized with the cardinal direction (N, E, S, W) followed by SW-#. Confirmation floor sample locations were labeled with "FS"-#. Sidewall samples were collected in the vicinity of the 4-foot buffer area of buried pressurized lines and analyzed for all constituents listed in Table I, as stipulated in the approval. Excavated areas, depths and confirmation sample locations are indicated in Figure 5.

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

The results of the March 2024 confirmation sampling events are summarized in Table 4. All final confirmation soil samples (floor and sidewall) were below applicable cleanup levels for chloride, TPH, and BTEX. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E.

All excavated material was transported offsite for proper disposal. Approximately 484 cubic yards of material were transported to the Northern Delaware Basin Landfill. Copies of the waste manifests are included in Appendix F.

RECLAMATION ACTIVITIES

Based on 19.15.29.13 NMAC, all areas disturbed by the remediation have been reclaimed. Collected confirmation samples were placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed within appropriate holding times by Cardinal. The soil samples were analyzed for TPH (GRO+DRO+MRO) by EPA Method 8015M, BTEX by EPA Method 8021B, and chlorides by SM4500Cl-B. The analytical results were directly compared to the reclamation requirements and established Site RRALs to demonstrate compliance. All final confirmation soil samples (floor and sidewall) were below the reclamation limits for chloride, TPH, and BTEX. Excavated areas, depths and confirmation sample locations are indicated in Figure 5. The results of the March 2024 confirmation sampling events are summarized in Table 4.

Once acceptable confirmation sample results were received, the excavation was backfilled with clean material to pre-release grade. In accordance with 19.15.29.12 NMAC, the reclaimed area contained a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by SM4500Cl-B. The soil cover included a top layer consisting of one foot of suitable material to establish vegetation at the site. The backfilled areas in the pasture were seeded following backfilling, to aid in revegetation. Based on the soils of the site, the BLM Seed Mix #2 was used for seeding and was planted in the amount specified in the pounds pure live seed (PLS) per acre. One (1) representative 5-point composite sample was collected from the backfill material used for the reclamation of the project site. Soil backfill composite sampling results are summarized in Table 5. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E.

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 NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. Reclamation activities have been implemented in consultation with the BLM.

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CONCLUSION

ConocoPhillips respectfully requests closure of the incident based on the confirmation sampling results and remedial activities performed. The final C-141 forms are enclosed in Appendix A.

Sincerely,
Tetra Tech, Inc.



Samantha Abbott, P.G.
Project Manager



Christian M. Llull, P.G.
Program Manager

cc:
Mr. Ike Tavaréz, RMR – ConocoPhillips

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LIST OF ATTACHMENTS

Figures:

- Figure 1 – Overview Map
- Figure 2 – Topographic Map
- Figure 3 – Approximate Release Extent and Initial Site Assessment (Tetra Tech 2017-2018)
- Figure 4 – Approximate Release Extent and Additional Assessment (Tetra Tech 2023)
- Figure 5 – Excavation Extent and Confirmation Sampling Locations

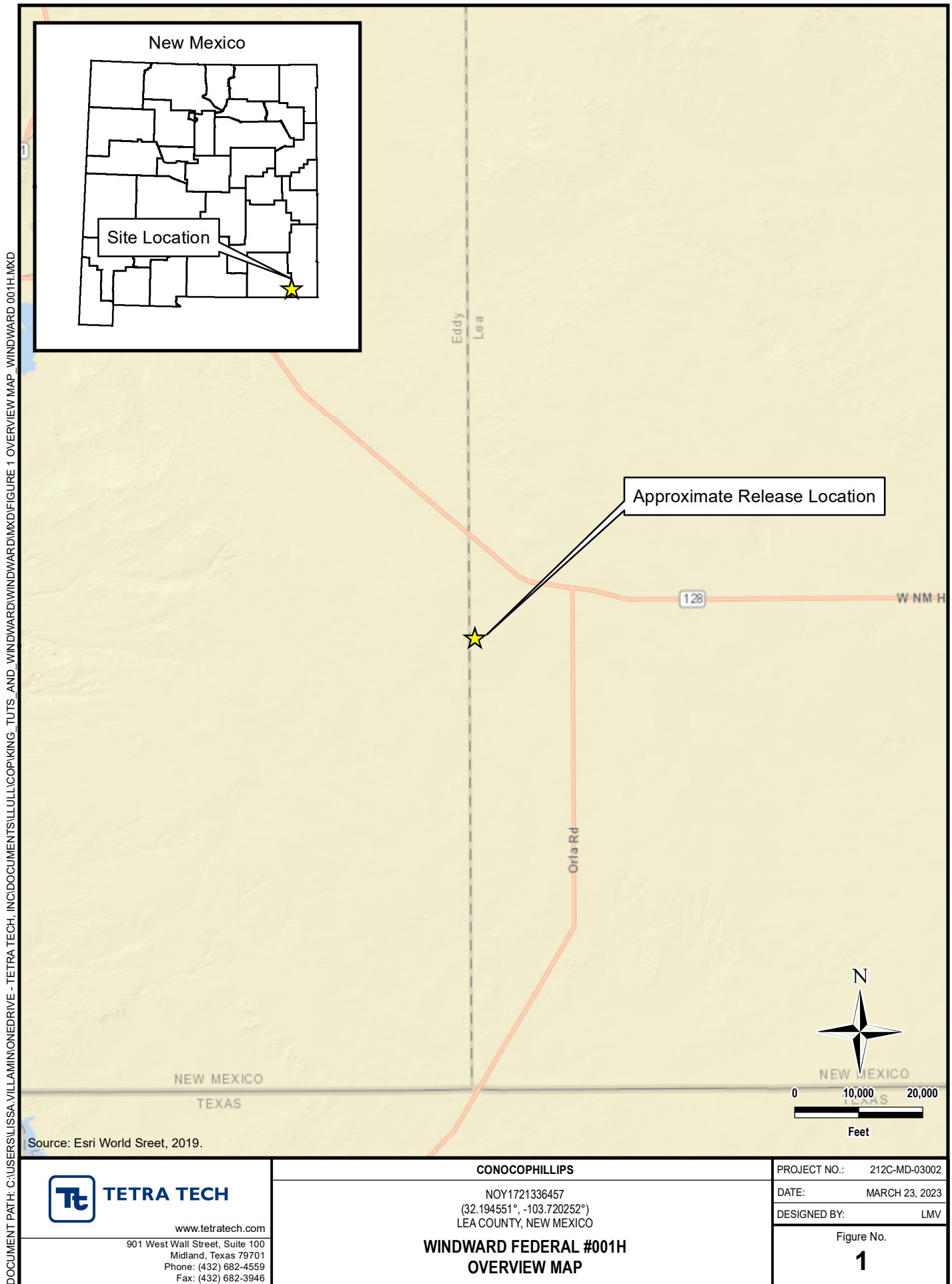
Tables:

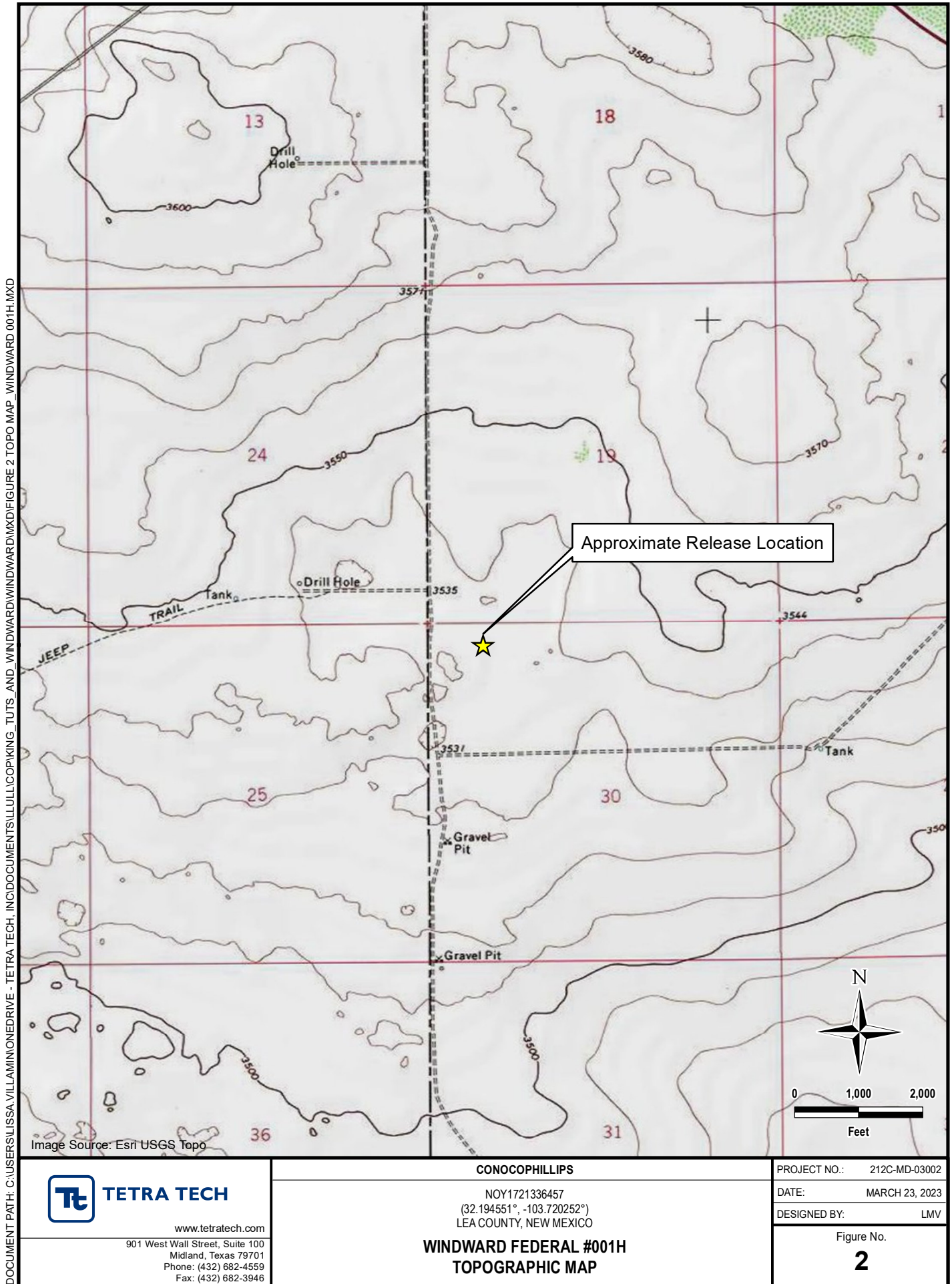
- Table 1 – Summary of Analytical Results – 2017-2018 Initial Soil Assessment
- Table 2 – Summary of Analytical Results – 2023 Horizontal Delineation Soil Assessment
- Table 3 – Summary of Analytical Results – 2023 Vertical Delineation Soil Assessment
- Table 4 – Summary of Analytical Results – Soil Remediation
- Table 5 – Summary of Analytical Results – Soil Backfill

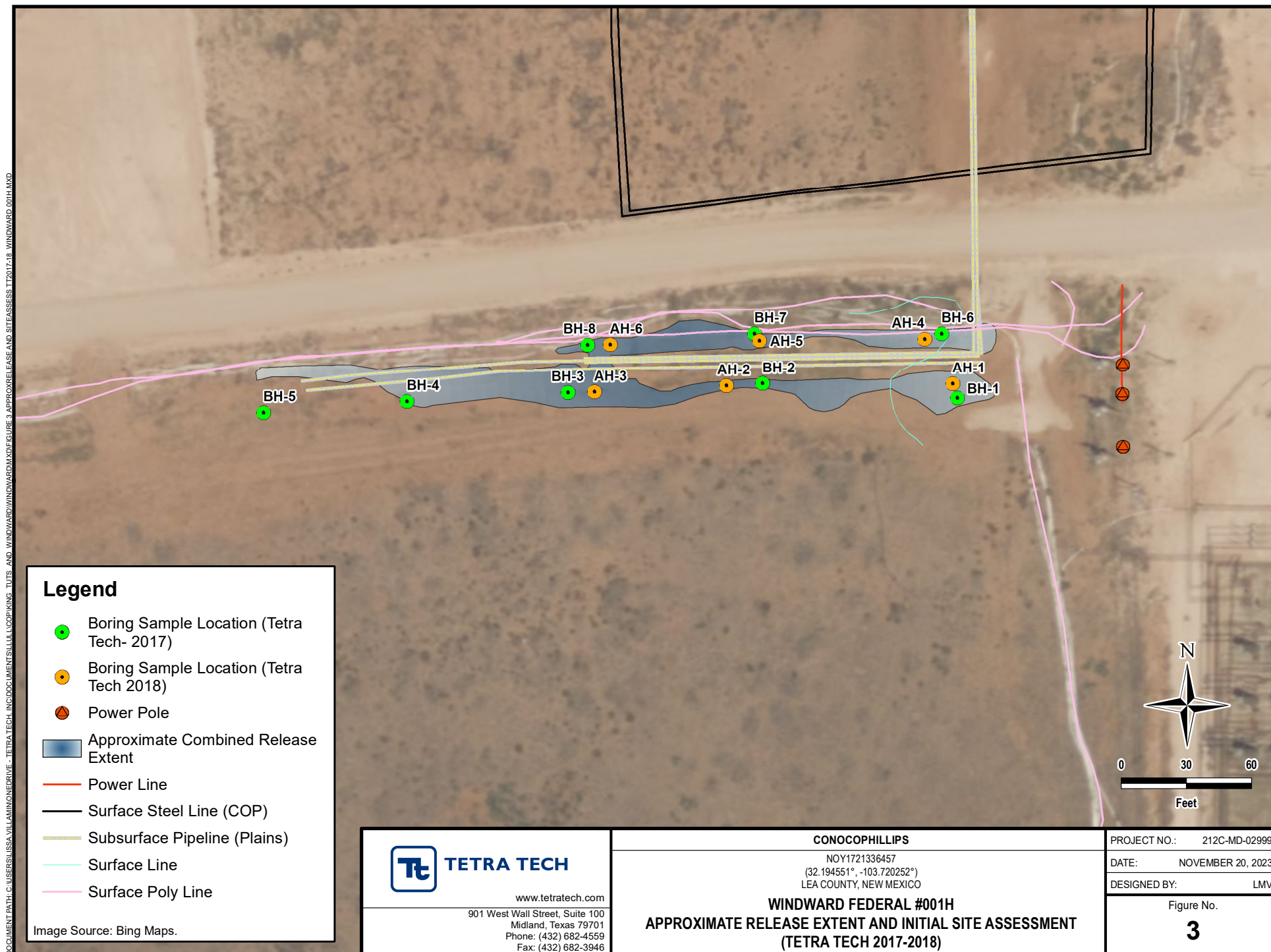
Appendices:

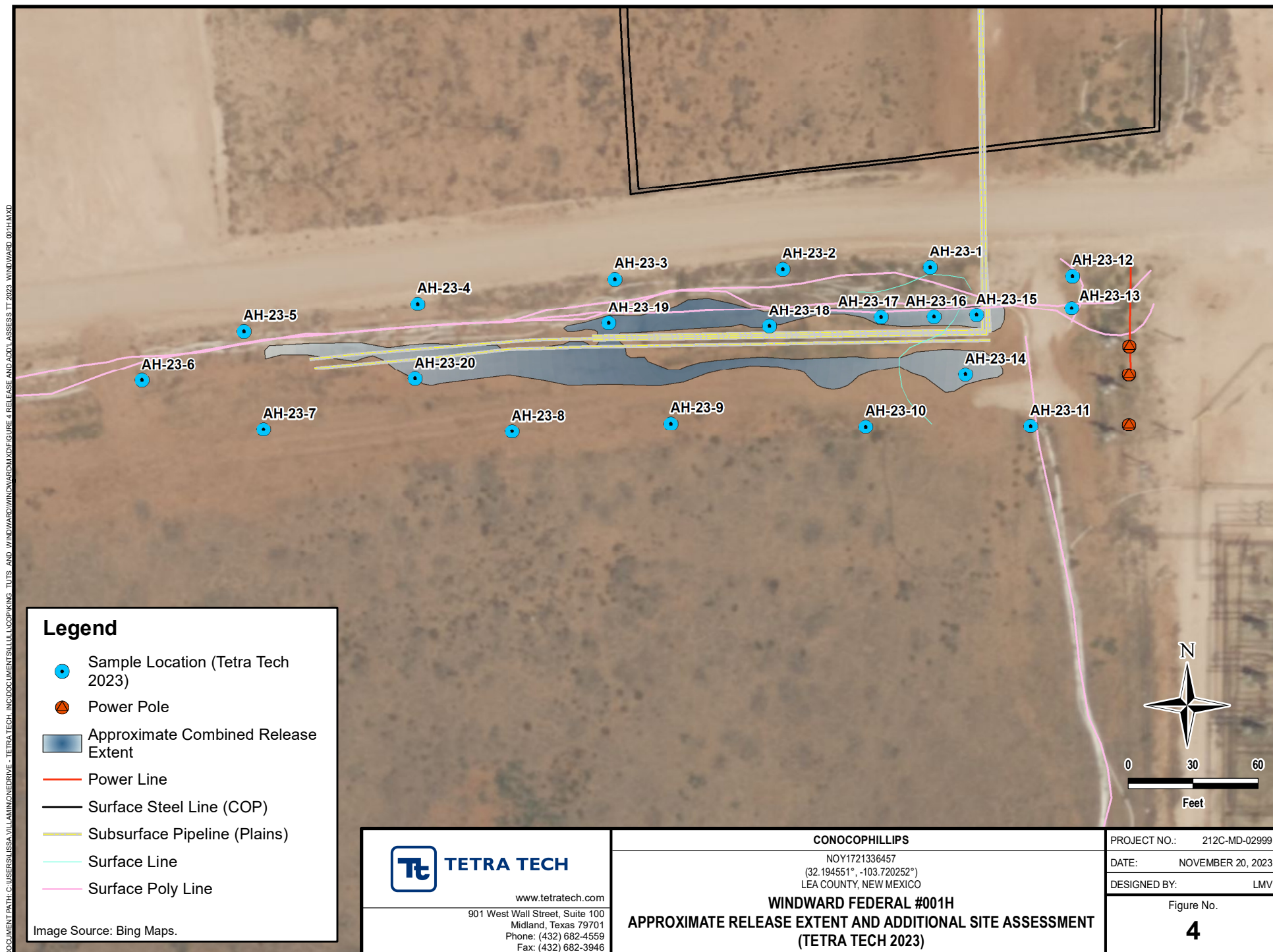
- Appendix A – C-141 Forms
- Appendix B – Site Characterization Data
- Appendix C – Regulatory Correspondence
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Analytical Data
- Appendix F – Waste Manifests

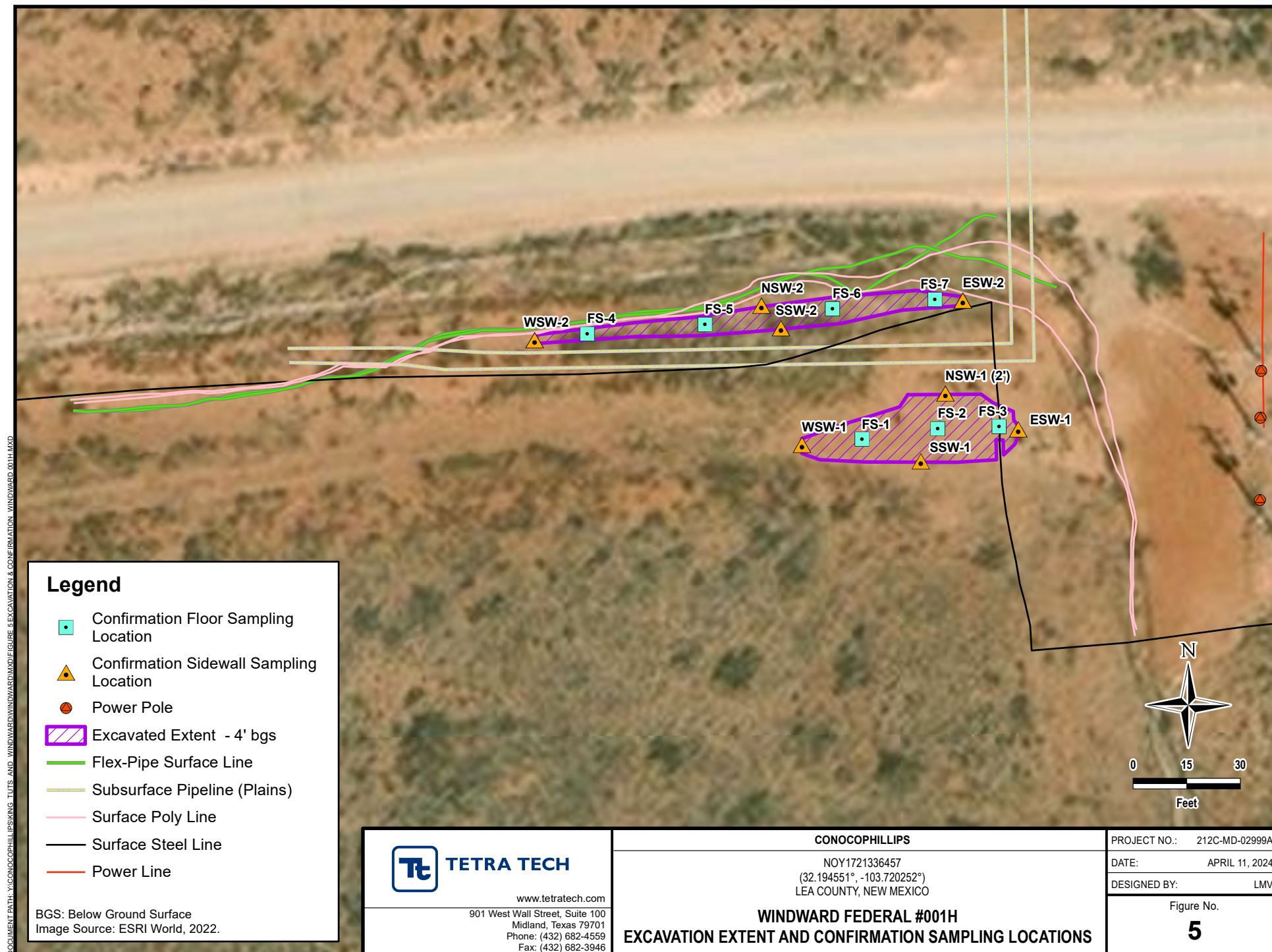
FIGURES











TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
2017-2018 INITIAL SOIL ASSESSMENT - nOY1721336457
CONOCOPHILLIPS
WINDWARD FEDERAL #001H
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹			BTEX ²												TPH ³							
						Benzene		Toluene		Ethylbenzene		m,p-Xylenes		o-Xylene		Total Xylenes		Total BTEX		GRO		DRO		MRO	
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
BH-1	8/15/2017	0-1	1840		<0.00200		<0.00200		<0.00200		<0.00399		<0.00200		<0.00200		<15.0		143		<15.0		143		
		2-3	2020		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		4-5	1790		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		6-7	2520		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		9-10	1090		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		14-15	199		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		19-20	116		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		24-25	121		<0.00201		<0.00201		<0.00201		<0.00402		<0.00201		<0.00201		<15.0		<15.0		<15.0		<15.0		
BH-2	8/15/2017	0-1	24.8		<0.00202		<0.00202		<0.00202		<0.00404		<0.00202		<0.00202		<15.0		<15.0		<15.0		<15.0		
		2-3	25.6		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		4-5	1110		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		6-7	920		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		9-10	213		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		14-15	175		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		19-20	126		<0.00201		<0.00201		<0.00201		<0.00402		<0.00201		<0.00201		<14.9		<14.9		<14.9		<14.9		
BH-3	8/15/2017	0-1	23.9		<0.00199		<0.00199		<0.00199		<0.00398		<0.00199		<0.00199		<14.9		<14.9		<14.9		<14.9		
		2-3	28.5		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		4-5	7960		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		6-7	796		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		9-10	40.5		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		14-15	143		<0.00202		<0.00202		<0.00202		<0.00404		<0.00202		<0.00202		<15.0		<15.0		<15.0		<15.0		
BH-4	8/15/2017	0-1	613		<0.00200		<0.00200		<0.00200		<0.00401		<0.00200		<0.00200		<15.0		<15.0		<15.0		<15.0		
		2-3	469		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		4-5	737		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		6-7	58.8		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		9-10	41.8		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		14-15	331		<0.00202		<0.00202		<0.00202		<0.00404		<0.00202		<0.00202		<15.0		<15.0		<15.0		<15.0		
BH-5	8/15/2017	0-1	31		<0.00200		<0.00200		<0.00200		<0.00401		<0.00200		<0.00200		<15.0		<15.0		<15.0		<15.0		
		2-3	47.8		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		4-5	28		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		6-7	24.6		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		9-10	24.8		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		14-15	37		<0.00199		<0.00199		<0.00199		<0.00398		<0.00199		<0.00199		<15.0		<15.0		<15.0		<15.0		
BH-6	8/15/2017	0-1	183		<0.00201		<0.00201		<0.00201		<0.00402		<0.00201		<0.00201		<15.0		<15.0		<15.0		<15.0		
		2-3	232		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		4-5	859		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		6-7	2440		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		9-10	562		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		14-15	295		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		19-20	69.2		<0.00202		<0.00202		<0.00202		<0.00404		<0.00202		<0.00202		<15.0		<15.0		<15.0		<15.0		
BH-7	8/15/2017	0-1	535		<0.00347		<0.00347		<0.00347		<0.00694		<0.00347		<0.00347		<15.0		41.7		<15.0		41.7		
		2-3	1370		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		4-5	3100		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		6-7	154		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		9-10	46.2		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
		14-15	82.5		<0.00199		<0.00199		<0.00199		<0.00398		<0.00199		<0.00199		<15.0		<15.0		<15.0		<15.0		

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2017-2018 INITIAL SOIL ASSESSMENT - nOY1721336457
CONOCOPHILLIPS
WINDWARD FEDERAL #001H
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Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²												TPH ³								
					Benzene		Toluene		Ethylbenzene		m,p-Xylenes		o-Xylene		Total Xylenes		Total BTEX		GRO		DRO		MRO		Total TPH
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
BH-8	8/15/2017	0-1	302		<0.00200		<0.00200		<0.00200		<0.00399		<0.00200		<0.00200		<0.00200		<15.0		<15.0		<15.0		<15.0
		2-3	1860		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		4-5	7110		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		6-7	5400		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		9-10	1250		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		14-15	440		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		19-20	504		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		24-25	782		<0.00201		<0.00201		<0.00201		<0.00402		<0.00201		<0.00201		<0.00201		<15.0		<15.0		<15.0		<15.0
AH-1	6/27/2018	0-1	55.8		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		1-1.5	27.4		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		2-2.5	44.3		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		3-3.5	91.2		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		4-4.5	596		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		5-5.5	2160		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		6-6.5	2710		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		7-7.5	3020		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
8-8.5	3630		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
9-9.5	3200		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
AH-2	6/27/2018	0-1	23.7		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		1-1.5	35.9		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		2-2.5	69.2		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		3-3.5	225		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		4-4.5	942		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		5-5.5	2720		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		6-6.5	3640		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		7-7.5	4790		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
8-8.5	5160		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
9-9.5	5920		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
AH-3	6/27/2018	0-1	143		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		1-1.5	67.1		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		2-2.5	14.3		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		3-3.5	166		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		4-4.5	1160		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		5-5.5	3750		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		6-6.5	4080		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		7-7.5	4520		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
8-8.5	6990		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
9-9.5	5220		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
AH-4	6/27/2018	0-1	2480		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		1-1.5	2010		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		2-2.5	1040		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		3-3.5	840		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		4-4.5	428		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		5-5.5	420		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		6-6.5	534		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
		7-7.5	767		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
8-8.5	1840		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
9-9.5	3600		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
2017-2018 INITIAL SOIL ASSESSMENT - nOY1721336457
CONOCOPHILLIPS
WINDWARD FEDERAL #001H
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEx ²												TPH ³								
					Benzene		Toluene		Ethylbenzene		m,p-Xylenes		o-Xylene		Total Xylenes		Total BTEx		GRO		DRO		MRO		Total TPH
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
AH-5	6/27/2018	0-1	NA	2650		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		1-1.5		2590		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		2-2.5		3240		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		3-3.5		6070		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		4-4.5		3890		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		5-5.5		3280		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		6-6.5		2330		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		7-7.5		2540		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		8-8.5		2250		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		9-9.5		2670		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
AH-6	6/27/2018	0-1		556		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		1-1.5		2270		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		2-2.5		2380		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		3-3.5		3340		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		4-4.5		4150		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		5-5.5		2020		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		6-6.5		508		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		7-7.5		1290		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		8.5-9		684		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

NOTES:

ft. Feet
bgs Below ground surface
mg/kg Milligrams per kilogram
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
MRO Motor Oil range organics
NA Sample not analyzed for parameter
1 EPA Method 300.0
2 EPA Method 8021B
3 Method 5W8015 Mod
NA Sample not analyzed for parameter

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

QUALIFIERS:

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
2023 HORIZONTAL DELINEATION SOIL ASSESSMENT - nOY1721336457
CONOCOPHILLIPS
WINDWARD FEDERAL #001H
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEx ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEx		Gro		Dro		Ext Dro		Total TPH (Gro+Dro+Ext Dro)	
															C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆			
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
AH-23-1	5/5/2023	0-1	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-23-2	5/5/2023	0-1	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-23-3	5/5/2023	0-1	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-23-4	5/5/2023	0-1	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-23-5	5/5/2023	0-1	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-23-6	5/5/2023	0-1	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-23-7	5/5/2023	0-1	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-23-8	5/5/2023	0-1	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-23-9	5/5/2023	0-1	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-23-10	5/5/2023	0-1	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-23-11	5/5/2023	0-1	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

NOTES:

- ft. Feet
- bgs Below ground surface
- mg/kg Milligrams per kilogram
- TPH Total Petroleum Hydrocarbons
- GRO Gasoline range organics
- DRO Diesel range organics
- 1 Method SM4500Cl-B
- 2 Method 8021B
- 3 Method 8015M

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

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
2023 VERTICAL DELINEATION SOIL ASSESSMENT - nOY1721336457
CONOCOPHILLIPS
WINDWARD FEDERAL #001H
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
															C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆			
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
AH-23-12	9/7/2023	0-1	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		1-2	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		2-3	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		3-4	2,480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		4-5	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-23-13	9/7/2023	0-1	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		1-2	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		2-3	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		3-4	2,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		4-5	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-23-14	9/7/2023	0-1	1,550		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		1-2	1,390		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		2-3	880		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		3-4	2,640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		4-5	448		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-23-15	9/7/2023	0-1	5,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		1-2	3,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		2-3	2,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		3-4	2,480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		4-5	1,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-23-16	9/7/2023	0-1	5,040		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		1-2	2,840		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		2-3	3,200		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		3-4	2,640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		4-5	1,550		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-23-17	9/7/2023	0-1	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		1-2	960		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		2-3	1,960		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		3-4	2,280		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		4-5	1,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-23-18	9/7/2023	0-1	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		1-2	912		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		2-3	1,840		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		3-4	2,280		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		4-5	1,640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-23-19	9/7/2023	0-1	1,920		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		1-2	2,080		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		2-3	2,480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		3-4	1,800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		4-5	1,570		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
2023 VERTICAL DELINEATION SOIL ASSESSMENT - nOY1721336457
CONOCOPHILLIPS
WINDWARD FEDERAL #001H
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
															C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆			
					ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
AH-23-20	9/7/2023	0-1	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		1-2	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		2-3	848		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		3-4	560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		4-5	416		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

NOTES:

- ft. Feet
- bgs Below ground surface
- mg/kg Milligrams per kilogram
- TPH Total Petroleum Hydrocarbons
- GRO Gasoline range organics
- DRO Diesel range organics
- 1 Method SM4500Cl-B
- 2 Method 8021B
- 3 Method 8015M

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

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

TABLE 4
SUMMARY OF ANALYTICAL RESULTS
SOIL REMEDIATION - nAB1905046526, nKL1630650239, nOY1713048453, nOY1721336457
CONOCOPHILLIPS
KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, WINDWARD FEDERAL #001H RELEASES
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH	
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆		(GRO+DRO+EXT DRO)	
FS-1	3/26/2024	4	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-2	3/26/2024	4	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-3	3/26/2024	4	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-4	3/27/2024	4	1,500		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-5	3/27/2024	4	800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-6	3/27/2024	4	800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-7	3/27/2024	4	656		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
NSW-1	3/26/2024	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		305		254		559	
NSW-1 (2')	3/28/2024	-	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		13.1		<10.0		13.1	
NSW-2	3/27/2024	-	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SSW-1	3/26/2024	-	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SSW-2	3/27/2024	-	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
ESW-1	3/26/2024	-	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
ESW-2	3/27/2024	-	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-1	3/26/2024	-	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		12.1		<10.0		12.1	
WSW-2	3/27/2024	-	304		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

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

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

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

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

TABLE 5
SUMMARY OF ANALYTICAL RESULTS
TWIN WELLS BUCKTHORN PIT - SOIL BACKFILL
CONOCOPHILLIPS
32.152167°, -103.773445°
LEA COUNTY, NM

Sample ID	Sample Date	Chloride ¹		BTEX ²										TPH ³						
				Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH
		C ₆ - C ₁₀												> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆		(GRO+DRO+EXT DRO)		
		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q		mg/kg	
BACKFILL - COMPOSITE	3/26/2024	16		<0.050	Q	<0.050	Q	<0.050	Q	<0.150	Q	<0.300	Q	<10.0	Q	<10.0	Q	<10.0	Q	-

NOTES:

- ft. Feet
bgs Below ground surface
mg/kg Milligrams per kilogram
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
1 Method SM4500Cl-B
2 Method 8021B
3 Method 8015M

APPENDIX A C-141 Forms

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

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

Form C-141
Revised August 8, 2011
Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: COG Operating LLC OGRID # 229137	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-683-7443
Facility Name: Windward Federal #001H	Facility Type: Flowline
Surface Owner: Federal	Mineral Owner: Federal
API No. 30-025-41414	

LOCATION OF RELEASE

Unit Letter D	Section 30	Township 24S	Range 32E	Feet from the 190	North/South Line North	Feet from the 430	East/West Line West	County Lea
------------------	---------------	-----------------	--------------	----------------------	---------------------------	----------------------	------------------------	---------------

Latitude 32.194551 Longitude -103.720252

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 70 bbls.	Volume Recovered: 60 bbls.
Source of Release: Flowline	Date and Hour of Occurrence: July 25, 2017 3:00 pm	Date and Hour of Discovery: July 25, 2017 3:00 pm
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Ms. Yu - NMOCD / Ms. Tucker - BLM	
By Whom? Rebecca Haskell	Date and Hour: July 26, 2017 8:31 am	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		

RECEIVED

By Olivia Yu at 7:31 am, Aug 01, 2017

Describe Cause of Problem and Remedial Action Taken.*

The release was caused by a rupture in a flowline. The flowline was repaired.

Describe Area Affected and Cleanup Action Taken.*

The release was within a pasture. A vacuum truck was dispatched to remove all freestanding fluids. Concho will have the spill area sampled to delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

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

Signature: <i>Rebecca Haskell</i>	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Rebecca Haskell	Approved by Environmental Specialist: <i>oy</i>	
Title: Senior HSE Coordinator	Approval Date: 8/1/2017	Expiration Date:
E-mail Address: rhaskell@concho.com	Conditions of Approval: see attached directive	Attached ☒
Date: July 28, 2017 Phone: 432-683-7443		

* Attach Additional Sheets If Necessary

1RP-4772

nOY1721336457

pOY1721336911

Incident ID	nOY1721336457
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?	>100 (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?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not 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.*

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nOY1721336457
District RP	
Facility ID	
Application ID	

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

Printed Name: Ike Tavarez _____ Title: Program Manager, Remediation _____

Signature:  _____ Date: 11/30/2023 _____

email: Ike.Tavarez@conocophillips.com _____ Telephone: 432-685-2573 _____

OCD Only

Received by: _____ Date: _____

Incident ID	nOY1721336457
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Ike Tavarez _____ Title: Program Manager, Remediation _____
Signature:  _____ Date: 11/30/2023 _____
email: Ike.Tavarez@conocophillips.com _____ Telephone: 432-685-2573 _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 290143

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 290143
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation plan and variance request are conditionally approved. If the horizontal extents of the release remediation excavation extend beyond AH-23-12, AH-23-13, and AH-23-20; then these areas will need to be addressed at time of remediation as there are no horizontal delineation points that meet the most stringent closure criteria in the upper four feet east of AH-23-15 and the horizontal delineation points are 70+ feet west of AH-23-20.	1/17/2024
bhall	Wall samples along any 4 foot buffer area of buried pressurized lines will need to be collected and analyzed for all constituents listed in Table I.	1/17/2024
bhall	Submit a complete report through the OCD Permitting website by 4/17/2023.	1/17/2024

Incident ID	
District RP	
Facility ID	
Application ID	

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

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

Printed Name: _____ Title: _____
Signature:  Date: _____
email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

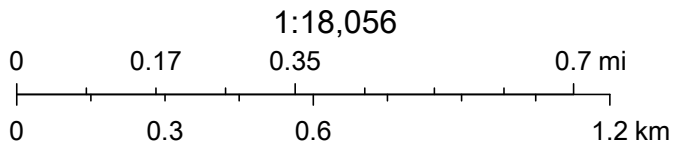
APPENDIX B

Site Characterization Data

OCD Waterbodies Locations



1/27/2023, 4:19:33 PM



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

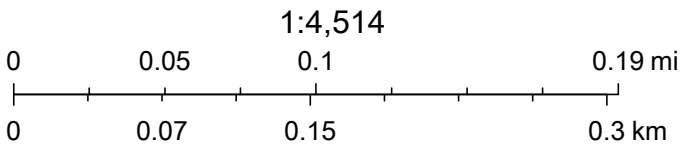
OCD Potential Karst Map



1/27/2023, 3:52:04 PM

Karst Occurrence Potential

Low



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



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 04665	CUB	LE		1	1	2	30	24S	32E	621350	3562798	723	120		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 620631.2

Northing (Y): 3562717.58

Radius: 800

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

5/18/23 7:33 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 04665	CUB	LE		1	1	2	30	24S	32E	621350	3562798	723	120		
C 04654 POD1	CUB	ED		3	3	4	25	24S	31E	619764	3561226	1724	55		
C 04636 POD1	CUB	ED		3	4	3	25	24S	31E	619200	3561279	2028			
C 04643 POD1	C	ED		4	2	2	05	23S	27E	619200	3561279	2028	305	135	170

Average Depth to Water: **135 feet**

Minimum Depth: **135 feet**

Maximum Depth: **135 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 620631.2

Northing (Y): 3562717.58

Radius: 2500

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

1/27/23 3:11 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

APPENDIX C

Regulatory Correspondence

Chavira, Lisbeth

From: OCDOnline@state.nm.us
Sent: Wednesday, January 17, 2024 11:04 AM
To: Llull, Christian
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 290143

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

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

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nOY1721336457, with the following conditions:

- **Remediation plan and variance request are conditionally approved. If the horizontal extents of the release remediation excavation extend beyond AH-23-12, AH-23-13, and AH-23-20; then these areas will need to be addressed at time of remediation as there are no horizontal delineation points that meet the most stringent closure criteria in the upper four feet east of AH-23-15 and the horizontal delineation points are 70+ feet west of AH-23-20.**
- **Wall samples along any 4 foot buffer area of buried pressurized lines will need to be collected and analyzed for all constituents listed in Table I.**
- **Submit a complete report through the OCD Permitting website by 4/17/2023.**

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

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

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

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

From: [Taylor, Shelly J](#)
To: [Abbott, Sam](#)
Cc: [Llull, Christian](#)
Subject: Re: [EXTERNAL] FW: Windward Federal #001H Release - nOY1721336457 - Remediation Work Plan
Date: Wednesday, April 3, 2024 6:49:17 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)
[image010.png](#)
[Outlook-4ft1iav0.png](#)

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

To follow up with my verbal approval, you are authorized to begin remedial activities.

Respectfully,

Shelly J Taylor

Assistant Field Manager
Lands & Minerals - Acting

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

Direct 575.627.0250
Mobile 575.200.0614
sjtaylor@blm.gov



From: Abbott, Sam <Sam.Abbott@tetrattech.com>
Sent: Thursday, March 14, 2024 12:02 PM
To: Taylor, Shelly J <sjtaylor@blm.gov>
Cc: Llull, Christian <Christian.Llull@tetrattech.com>
Subject: [EXTERNAL] FW: Windward Federal #001H Release - nOY1721336457 - Remediation Work Plan

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

3/4

Samantha Abbott, PG | Project ManagerDirect Mobile +1 (512) 739-7874 | Business +1 (512) 338-1667 | Sam.Abbott@tetrattech.com**Tetra Tech, Inc.** | *Leading with Science*® | OGA8911 N Capital of Texas Hwy #2310 | Austin, TX 78759 | tetrattech.com

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Please consider the environment before printing. [Read more](#)

From: Llull, Christian <Christian.Llull@tetrattech.com>**Sent:** Tuesday, February 6, 2024 11:32 AM**To:** Tucker, Shelly J <stucker@blm.gov>**Cc:** Abbott, Sam <Sam.Abbott@tetrattech.com>**Subject:** Windward Federal #001H Release - nOY1721336457 - Remediation Work Plan

Shelly:

Attached for your review is the Remediation Work Plan for the Windward Federal #001H Release - **nOY1721336457 (DOR 7/25/2017)**.

- *This WP has been approved by NMOCD.*
- Approval attached.
- There are 4 similar WPs that you will receive, the remedial action is the same for all 4 sites based on the combined assessment.
 - King Tut Federal #001H Release (nKL1630650239)
 - King Tut Federal #003H Release (nOY1713048453)
 - Windward Federal #001H (nOY1721336457)
 - King Tut Federal #001H Release (nAB1905046526)

Windward Federal #001H Release**Lea County, TX****Approximate Release Location:** 32.194551°, -103.720252°**Date Release Discovered:** July 25, 2017**Volume Released:** 70 bbls produced water**Volume Recovered:** 60 bbl produced water**Incident ID:** nOY1721336457**BACKGROUND:**

According to information provided, the release was caused by a ruptured flowline associated with the Windward Federal #001H well.

- The Windward Federal #001H release (nOY1721336457) footprint coincides with two additional flowline release incidents associated with the King Tut Federal #001H well (nKL1630650239) and the King Tut Federal #003H battery (nOY1713048453).
- Tetra Tech conducted the initial soil assessment on behalf of Concho in 2017 and 2018.
- Tetra Tech prepared a Closure Report on behalf of Concho dated November 7, 2018 summarizing the assessment sampling results.
 - Closure was requested due to safety concerns around the Plains Pipeline infrastructure and soil analytical results below the Site RRALs.
- The Closure Report was rejected by NMOCD on December 9, 2022, with the following comments:
 - *"Request for closure denied. Several sample locations are above the reclamation standard of 600 mg/kg for chloride in the upper 4 feet of the impacted area. If necessary, a deferral of the remediation and reclamation could be requested until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first. A 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.*
 - *1RP-4696 closed. Refer to incident #nOY1713048453 in all future communication.*
 - *Please submit a complete report through the OCD Permitting website by 03/10/2023."*
- The NMOCD approved an individual request for a 90-day extension to June 10, 2023.

ADDITIONAL ASSESSMENT:

- Tetra Tech conducted additional soil sampling at the Site on May 5, 2023 to complete horizontal delineation of the release per NMOCD directive.
 - Eleven (11) hand auger borings (AH-23-1 through AH-23-11) were installed to 1 foot bgs along the perimeter of the release.
 - All analytical results were below the applicable Site RRALs.
- Based on a review of associated correspondence and the results of the March 2023 additional site assessment, Tetra Tech prepared a Revised Deferral Request dated May 26, 2023 for this release and submitted to the NMOCD on behalf of COP.
- The NMOCD denied the deferral request in an email dated June 6, 2023 with the following comments:
 - *"Deferral denied. There is another open incident for a release that occurred in the same area under incident #NAB1905046526. The release occurred on 2/8/2019. A closure request was submitted 7/22/2019 and subsequently denied by both the BLM and OCD on 8/15/2019. Per 19.15.29.12 C. (3) "The responsible party shall remediate the impacted surface area of a release not occurring on a lined, bermed or otherwise contained exploration, development, production or storage site to meet the standards of Table I of 19.15.29.12 NMAC or other applicable remediation standards and restore and reclaim the area pursuant to 19.15.29.13 NMAC." Remediation can take place by using hand hovels, hydrovac, etc. to safely remove contaminated soil around the pipelines. In-situ remediation can also be utilized as long as the remediation plan is approved by the OCD prior to implementation.*
 - *Submit a complete report through the OCD Permitting website by 9/6/2023."*

The Site then transferred to RMR and Tetra Tech conducted additional vertical delineation sampling to confirm the continued presence of surface soil impacts above the chloride reclamation limit (600 mg/kg).

- Tetra Tech conducted additional soil sampling at the Site on September 7, 2023 to complete vertical delineation of the combined release extent.
 - Nine (9) hand auger borings (AH-23-12 through AH-23-20) were installed to 5 feet bgs within the release extent.
 - All analytical results were below the applicable Site RRALs for subsurface (>4 feet bgs) soils.
 - Surface soils (0-4 feet bgs) were impacted with chlorides above the reclamation limit of 600 mg/kg at multiple locations.

WORK PLAN:

- Tetra Tech has prepared the attached Work Plan in accordance with the NMOCD deferral denial and the 2023 additional assessment sampling results.
 - Impacted surface soils in two areas (of borings AH-23-12, AH-23-13, and AH-23-20) were overlain by 2-3 feet of clean surface soils.
 - Therefore, a variance is requested to leave those soils in place.
- Impacted material within the release extent is proposed to be removed to a maximum depth of 4'.
 - The total proposed volume to be removed and disposed of is 560 cubic yards.
- Confirmation sampling is proposed on the default 200 sf grid. The proposed excavation area is approximately 3,775 feet.
- Once acceptable confirmation sample results are received the excavation will then be backfilled with clean material to surface grade.
- The seed mixture for LPC Sand/Shinnery Sites will be used for seeding.
- Remediation activities at the Site are proposed to begin within **90** days of plan approval.

Let me know what you think,

Christian

Christian Llull, P.G. | Program Manager
Mobile +1 (512) 565-0190 | christian.llull@tetratech.com

Tetra Tech | *Leading with Science*® | OGA
8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | tetratech.com

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Please consider the environment before printing. [Read more](#)



Chavira, Lisbeth

From: OCDOnline@state.nm.us
Sent: Thursday, March 21, 2024 2:38 PM
To: Llull, Christian
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 325646

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

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nOY1721336457.

The sampling event is expected to take place:

When: 03/26/2024 @ 10:00

Where: D-30-24S-32E Lot: 1 190 FNL 430 FWL (32.1950493,-103.7216034)

Additional Information: Contact Sam Abbott at 512-417-5860

Additional Instructions: 32.194551°, -103.720252°

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

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

APPENDIX D

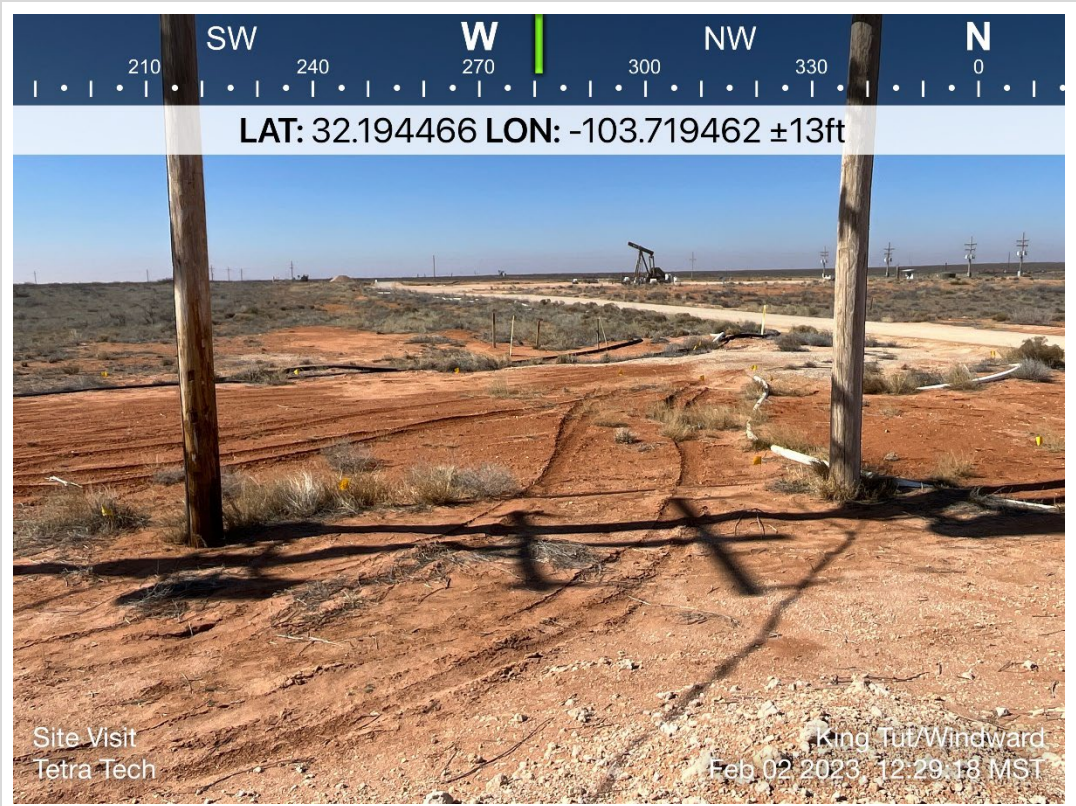
Photographic Documentation



TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View SW-W of release extent at the NW corner of pad. Vegetated towards lease road Surface poly-lines present.	1
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	2/2/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View W of release extent and pipeline right-of-way.	2
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	2/2/2023



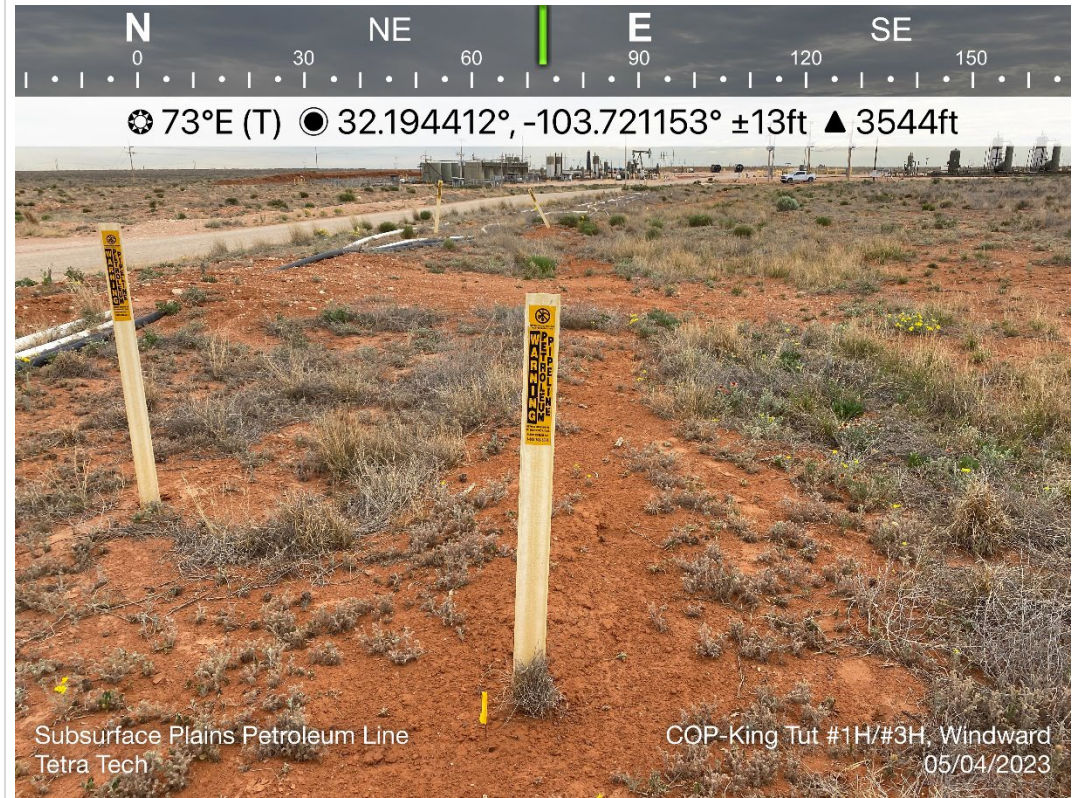
TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View W of lease road and release extent from beneath overhead electrical lines.	3
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	2/2/2023



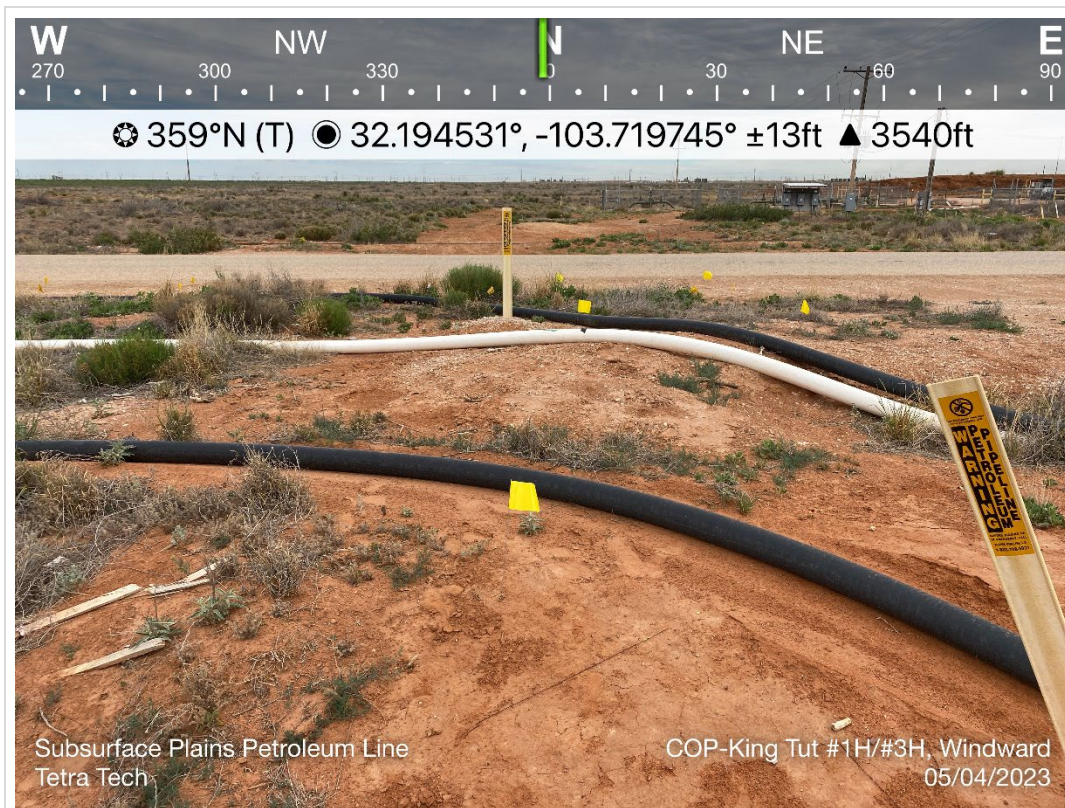
TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View W towards lease road.	4
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	2/2/2023



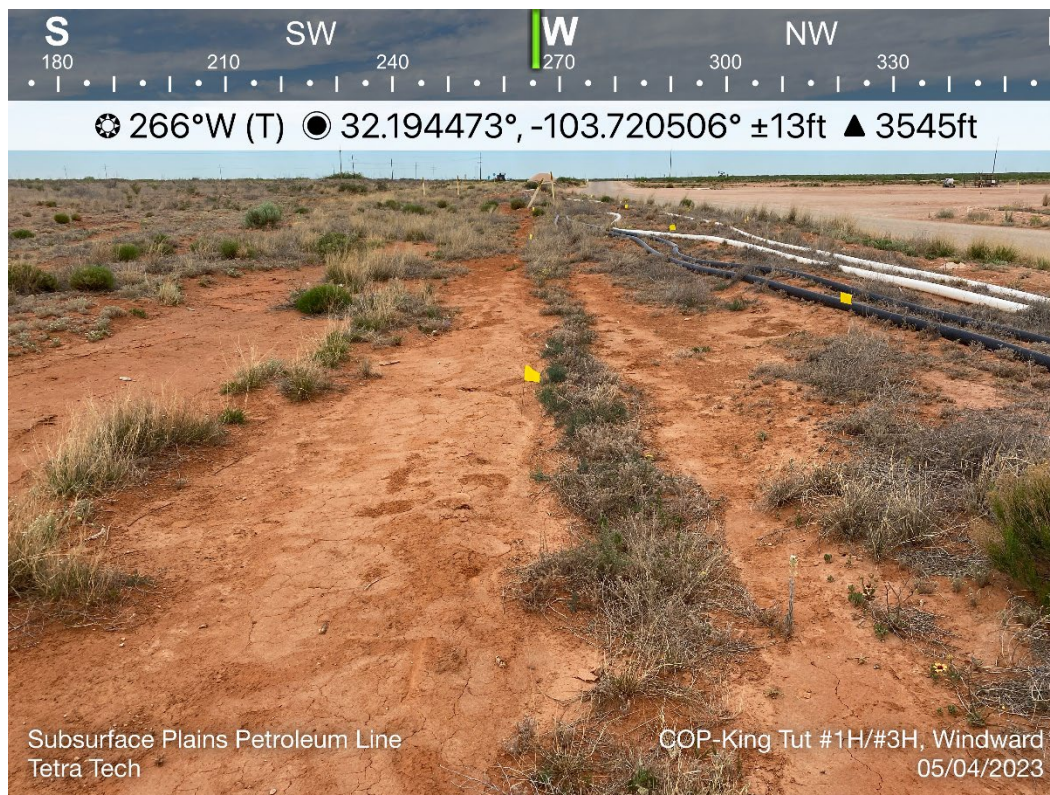
TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View west. View of historical release area. Surface poly lines and buried steel line.	5
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	5/4/2023



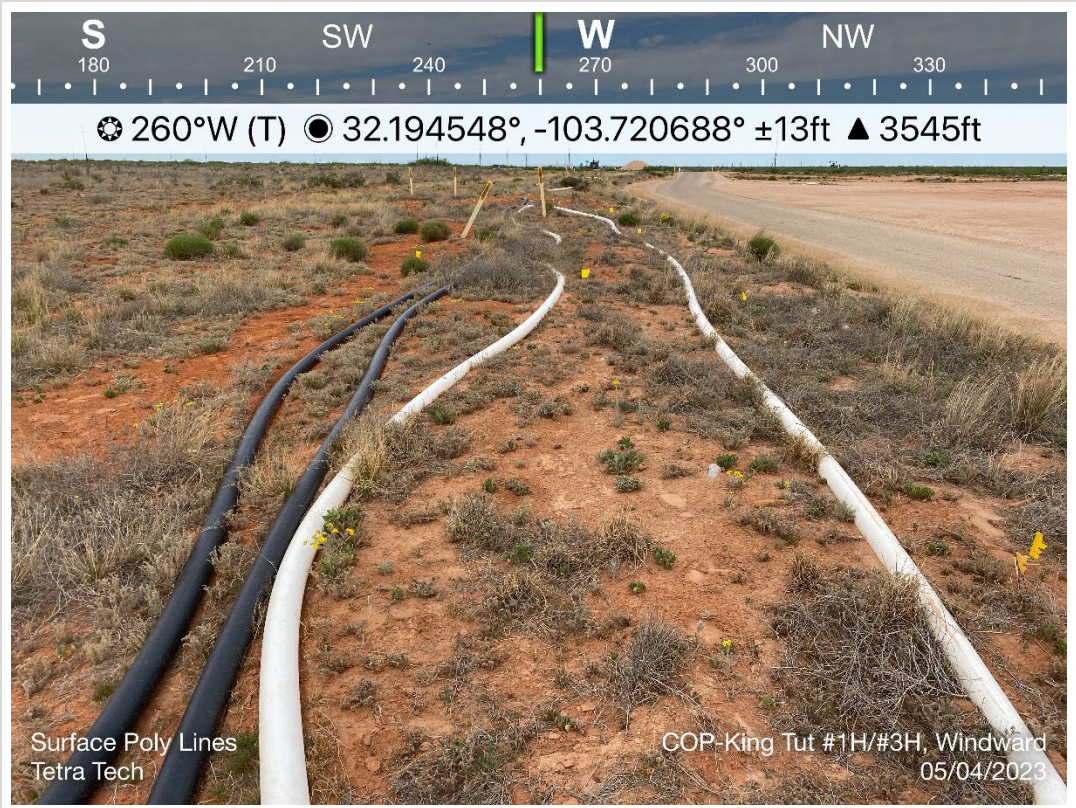
TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View northeast. View of surface lines. Vegetation present.	6
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	5/4/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View north. View of surface poly lines.	7
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	5/4/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View west. View of historical release area. View of surface poly lines and vegetation present.	8
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	5/4/2023



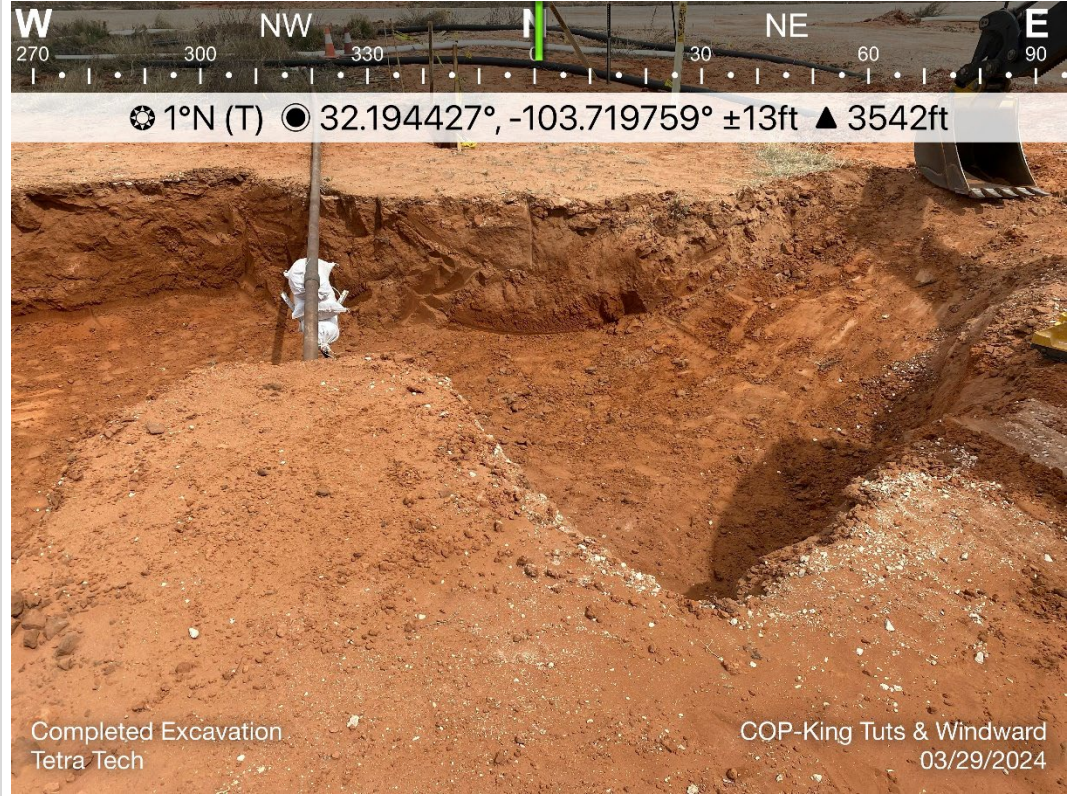
TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View west. View of surface poly lines and area of historical release.	9
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	5/4/2023



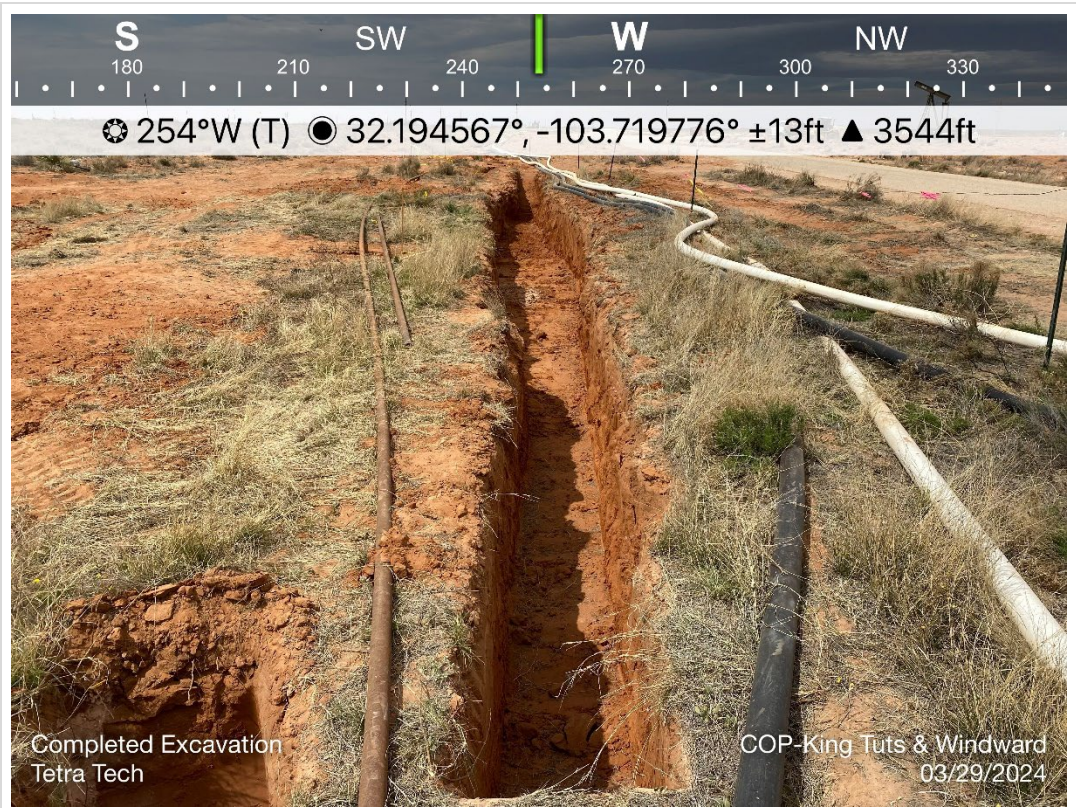
TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View southwest west. View surface poly lines and buried steel line.	10
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	5/4/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View west. View of excavated areas.	11
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	3/29/2024



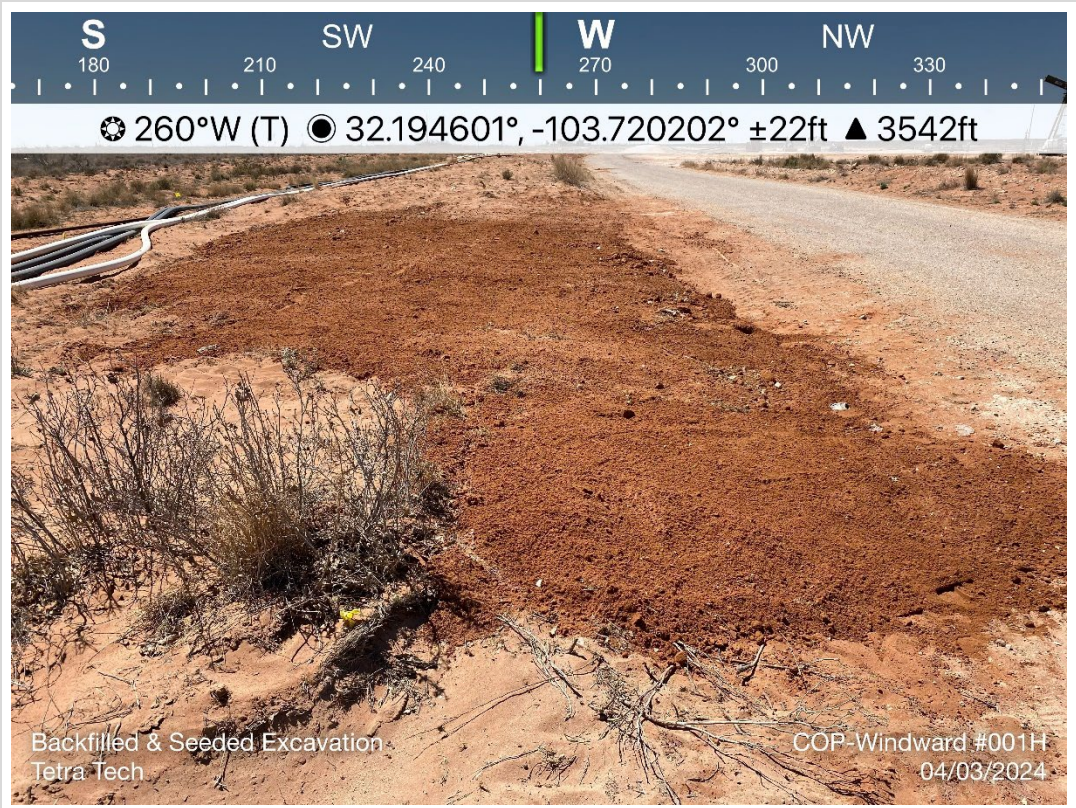
TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View north. View of excavation activities.	12
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	3/29/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View west. View of excavation activities.	13
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	3/29/2024



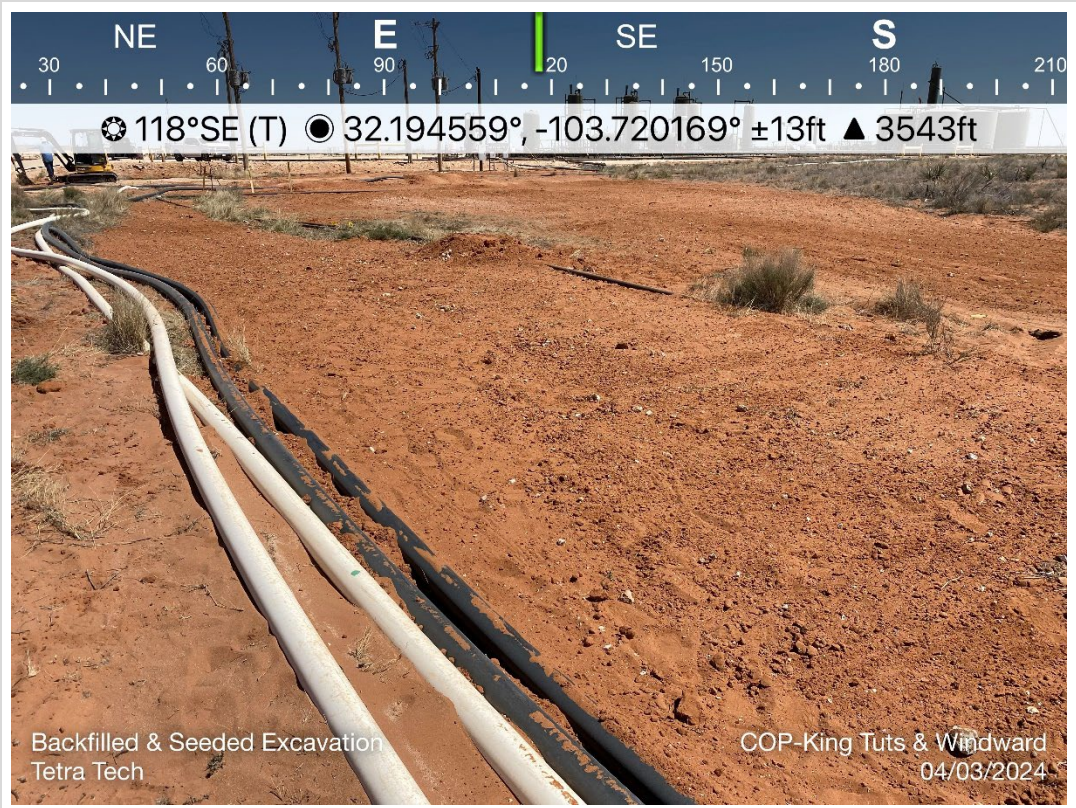
TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View east. View of excavation activities.	14
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	3/29/2024



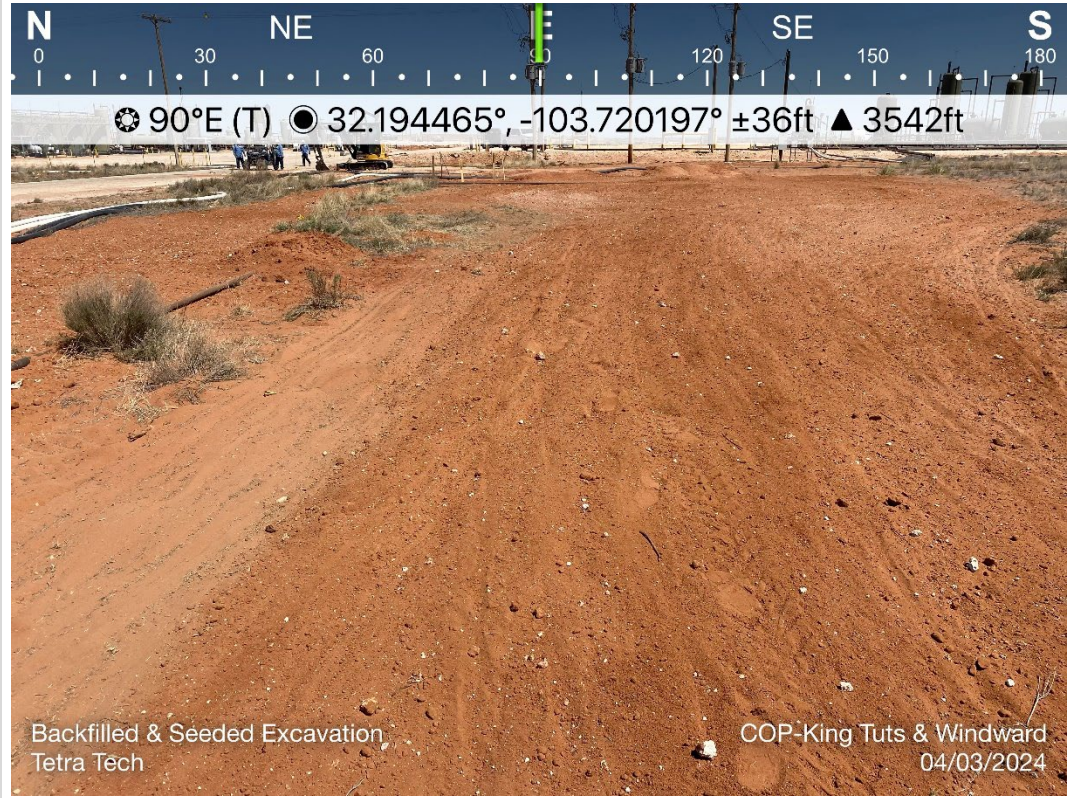
TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View west. View of backfilled and seeded excavation areas.	15
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	4/3/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View east. View of backfilled and seeded excavated areas.	16
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	4/3/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View east southeast. View of backfilled and seeded excavated areas.	17
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	4/3/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View east. View of backfilled and seeded excavated areas.	18
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	4/3/2024

APPENDIX E

Laboratory Analytical Data



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

March 27, 2024

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: KING TUT(S) & WINDWARD FED RELEASES

Enclosed are the results of analyses for samples received by the laboratory on 03/26/24 15:15.

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	03/27/2024	Sampling Type:	Soil
Project Name:	KING TUT(S) & WINDWARD FED RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02999A	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA CO NM		

Sample ID: FS - 1 (H241558-01)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2024	ND	2.24	112	2.00	0.883		
Toluene*	<0.050	0.050	03/26/2024	ND	2.19	109	2.00	0.961		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.14	107	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.23	104	6.00	1.07		
Total BTX	<0.300	0.300	03/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/27/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.241	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	210	105	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	03/27/2024	Sampling Type:	Soil
Project Name:	KING TUT(S) & WINDWARD FED RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02999A	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA CO NM		

Sample ID: FS - 2 (H241558-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2024	ND	2.24	112	2.00	0.883		
Toluene*	<0.050	0.050	03/26/2024	ND	2.19	109	2.00	0.961		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.14	107	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.23	104	6.00	1.07		
Total BTEx	<0.300	0.300	03/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/27/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.241	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	210	105	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	03/27/2024	Sampling Type:	Soil
Project Name:	KING TUT(S) & WINDWARD FED RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02999A	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA CO NM		

Sample ID: FS - 3 (H241558-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2024	ND	2.24	112	2.00	0.883		
Toluene*	<0.050	0.050	03/26/2024	ND	2.19	109	2.00	0.961		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.14	107	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.23	104	6.00	1.07		
Total BTEx	<0.300	0.300	03/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/27/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.241	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	210	105	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	03/27/2024	Sampling Type:	Soil
Project Name:	KING TUT(S) & WINDWARD FED RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02999A	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA CO NM		

Sample ID: NSW - 1 (H241558-04)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2024	ND	2.24	112	2.00	0.883		
Toluene*	<0.050	0.050	03/26/2024	ND	2.19	109	2.00	0.961		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.14	107	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.23	104	6.00	1.07		
Total BTX	<0.300	0.300	03/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/27/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.241	
DRO >C10-C28*	305	10.0	03/27/2024	ND	210	105	200	1.40	
EXT DRO >C28-C36	254	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	03/27/2024	Sampling Type:	Soil
Project Name:	KING TUT(S) & WINDWARD FED RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02999A	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA CO NM		

Sample ID: SSW - 1 (H241558-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2024	ND	2.24	112	2.00	0.883		
Toluene*	<0.050	0.050	03/26/2024	ND	2.19	109	2.00	0.961		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.14	107	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.23	104	6.00	1.07		
Total BTEx	<0.300	0.300	03/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/27/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.241	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	210	105	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	03/27/2024	Sampling Type:	Soil
Project Name:	KING TUT(S) & WINDWARD FED RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02999A	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA CO NM		

Sample ID: ESW - 1 (H241558-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2024	ND	2.24	112	2.00	0.883		
Toluene*	<0.050	0.050	03/26/2024	ND	2.19	109	2.00	0.961		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.14	107	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.23	104	6.00	1.07		
Total BTEx	<0.300	0.300	03/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/27/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.241	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	210	105	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	03/27/2024	Sampling Type:	Soil
Project Name:	KING TUT(S) & WINDWARD FED RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02999A	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA CO NM		

Sample ID: WSW - 1 (H241558-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2024	ND	2.24	112	2.00	0.883		
Toluene*	<0.050	0.050	03/26/2024	ND	2.19	109	2.00	0.961		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.14	107	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.23	104	6.00	1.07		
Total BTEx	<0.300	0.300	03/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/27/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.241	
DRO >C10-C28*	12.1	10.0	03/27/2024	ND	210	105	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

March 27, 2024

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: TWIN WELLS BUCKTHORN PIT (BACKFILL SOURCE)

Enclosed are the results of analyses for samples received by the laboratory on 03/26/24 15:15.

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	03/27/2024	Sampling Type:	Soil
Project Name:	TWIN WELLS BUCKTHORN PIT (BACKFI	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02999A	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA CO NM		

Sample ID: BACKFILL - COMPOSITE (H241559-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2024	ND	2.24	112	2.00	0.883		
Toluene*	<0.050	0.050	03/26/2024	ND	2.19	109	2.00	0.961		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.14	107	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.23	104	6.00	1.07		
Total BTEX	<0.300	0.300	03/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/27/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2024	ND	226	113	200	0.713	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	220	110	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

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

Cardinal Laboratories

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

Celey D. Keene, Lab Director/Quality Manager



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

March 28, 2024

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: KING TUT(S) & WINDWARD FED RELEASES

Enclosed are the results of analyses for samples received by the laboratory on 03/27/24 15:10.

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/27/2024	Sampling Date:	03/27/2024
Reported:	03/28/2024	Sampling Type:	Soil
Project Name:	KING TUT(S) & WINDWARD FED RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02999A	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA CO NM		

Sample ID: FS - 4 (H241599-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	0.107	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	0.267	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.12	106	2.00	0.127	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.38	106	6.00	0.0134	
Total BTX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	03/28/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	230	115	200	6.99	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	232	116	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/27/2024	Sampling Date:	03/27/2024
Reported:	03/28/2024	Sampling Type:	Soil
Project Name:	KING TUT(S) & WINDWARD FED RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02999A	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA CO NM		

Sample ID: FS - 5 (H241599-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	0.107		
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	0.267		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.12	106	2.00	0.127		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.38	106	6.00	0.0134		
Total BTEx	<0.300	0.300	03/27/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	03/28/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	230	115	200	6.99	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	232	116	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/27/2024	Sampling Date:	03/27/2024
Reported:	03/28/2024	Sampling Type:	Soil
Project Name:	KING TUT(S) & WINDWARD FED RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02999A	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA CO NM		

Sample ID: FS - 6 (H241599-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	0.107		
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	0.267		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.12	106	2.00	0.127		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.38	106	6.00	0.0134		
Total BTEx	<0.300	0.300	03/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	03/28/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	230	115	200	6.99	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	232	116	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/27/2024	Sampling Date:	03/27/2024
Reported:	03/28/2024	Sampling Type:	Soil
Project Name:	KING TUT(S) & WINDWARD FED RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02999A	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA CO NM		

Sample ID: FS - 7 (H241599-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	0.107		
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	0.267		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.12	106	2.00	0.127		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.38	106	6.00	0.0134		
Total BTEx	<0.300	0.300	03/27/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	03/28/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	230	115	200	6.99	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	232	116	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/27/2024	Sampling Date:	03/27/2024
Reported:	03/28/2024	Sampling Type:	Soil
Project Name:	KING TUT(S) & WINDWARD FED RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02999A	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA CO NM		

Sample ID: NSW - 2 (H241599-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	0.107		
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	0.267		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.12	106	2.00	0.127		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.38	106	6.00	0.0134		
Total BTEx	<0.300	0.300	03/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/28/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	230	115	200	6.99	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	232	116	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/27/2024	Sampling Date:	03/27/2024
Reported:	03/28/2024	Sampling Type:	Soil
Project Name:	KING TUT(S) & WINDWARD FED RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02999A	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA CO NM		

Sample ID: SSW - 2 (H241599-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	0.107		
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	0.267		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.12	106	2.00	0.127		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.38	106	6.00	0.0134		
Total BTEx	<0.300	0.300	03/27/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/28/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	230	115	200	6.99	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	232	116	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/27/2024	Sampling Date:	03/27/2024
Reported:	03/28/2024	Sampling Type:	Soil
Project Name:	KING TUT(S) & WINDWARD FED RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02999A	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA CO NM		

Sample ID: ESW - 2 (H241599-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	0.107		
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	0.267		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.12	106	2.00	0.127		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.38	106	6.00	0.0134		
Total BTEx	<0.300	0.300	03/27/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/28/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	230	115	200	6.99	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	232	116	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/27/2024	Sampling Date:	03/27/2024
Reported:	03/28/2024	Sampling Type:	Soil
Project Name:	KING TUT(S) & WINDWARD FED RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02999A	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA CO NM		

Sample ID: WSW - 2 (H241599-08)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	0.107		
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	0.267		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.12	106	2.00	0.127		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.38	106	6.00	0.0134		
Total BTX	<0.300	0.300	03/27/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	03/28/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	230	115	200	6.99	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	232	116	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tetra Tech		BILL TO		ANALYSIS REQUEST	
Project Manager: Sam Abbott		P.O. #:			
Address: 8911 Capital o Texas Hwy, Suite 2310		Company: Tetra Tech			
City: Austin		Attn: Sam Abbott			
State: TX Zip:		Address: EMAIL			
Phone #: (512)565-0190 Fax #:		City:			
Project #: 212C-MD-02999A Project Owner:		State:			
Project Name: King Tut(s) & Windward Federal Releases		Zip:			
Project Location: Lea County, New Mexico		Phone #:			
Sampler Name: Colton Bickerstaff		Fax #:			
FOR LAB USE ONLY		PRESERV.		SAMPLING	
Lab I.D.					
Sample I.D.					
(G)RAB OR (C)OMP.					
# CONTAINERS					
GROUNDWATER					
WASTEWATER					
SOIL					
OIL					
SLUDGE					
OTHER :					
ACID/BASE:					
ICE / COOL					
OTHER :					
DATE					
TIME					
TPH 8015M					
BTEX 8021B					
Chloride SM4500CI-B					
RUSH					
FS-4		X		X	
FS-5		X		X	
FS-6		X		X	
FS-7		X		X	
NSW-2		X		X	
SSW-2		X		X	
ESW-2		X		X	
WSW-2		X		X	
Date: 03/27/24		Received By:		Verbal Result: ☐ Yes ☐ No	
Time: 1510		Date:		Add'l Phone #:	
Relinquished By:		Time:		All Results are emailed. Please provide Email address: Sam.Abbott@tetratech.com AND Christian.Liul@tetratech.com	
Delivered By: (Circle One)		Sample Condition		CHECKED BY: (initials)	
Sampler: iPS - Bus - Other:		Cool intact ☒ Yes ☐ No		Y.O.	
Observed Temp. °C 21		Corrected Temp. °C		Turnaround Time: Standard ☐ Bacteria (only) sample Condition	
Correction Factor -4.0C		Correction Factor -4.0C		Rush YES, 24hr. TAT ☒ Cool intact ☐ Observed Temp. °C	
Thermometer ID #443-#140		Correction Factor -4.0C		Thermometer ID #443-#140	
Correction Factor -4.0C		Correction Factor -4.0C		Correction Factor -4.0C	
Correction Factor -4.0C		Correction Factor -4.0C		Correction Factor -4.0C	

FORM-006 R 3.2 10/07/21

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



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

March 28, 2024

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: KING TUT(S) & WINDWARD FED RELEASES

Enclosed are the results of analyses for samples received by the laboratory on 03/28/24 13:27.

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/28/2024	Sampling Date:	03/28/2024
Reported:	03/28/2024	Sampling Type:	Soil
Project Name:	KING TUT(S) & WINDWARD FED RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02999A	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA CO NM		

Sample ID: NSW - 1 (2') (H241631-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2024	ND	2.15	108	2.00	4.29	
Toluene*	<0.050	0.050	03/28/2024	ND	2.10	105	2.00	4.59	
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.04	102	2.00	4.65	
Total Xylenes*	<0.150	0.150	03/28/2024	ND	5.95	99.1	6.00	4.45	
Total BTEX	<0.300	0.300	03/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/28/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2024	ND	215	107	200	15.6	
DRO >C10-C28*	13.1	10.0	03/28/2024	ND	207	103	200	13.9	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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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*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

Project Manager: Sam Abbott

Address: 8911 Capital o Texas Hwy, Suite 2310

City: Austin

State: TX Zip:

Phone #: (512)565-0190 Fax #:

Project #: 212C-MD-02899A Project Owner: ConocoPhillips

Project Name: King Tud(s) & Windward Federal Releases

Project Location: Lea County, New Mexico

Sampler Name: Colton Bickstaff

P.O. #:

Company: Tetra Tech

Attn: Sam Abbott

Address: EMAIL

City:

State: Zip:

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

1 NSW-1 (2)

(G) GRAB OR (C) OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH 8015M

BTEX 8021B

Chloride SM4500CI-B

RUSH

Relinquished By: Colton Bickstaff

Date: 03/28/24

Received By: *Michelle C. Kelly*

Time: 1:37

Date:

Time:

Relinquished By:

Time:

Date:

Time:

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

Observed Temp. °C

Corrected Temp. °C

1.8 C

Sample Condition

Cool - Intact

Yes ☒ No ☐

Checked By: (Initials)

V.O.

Turnaround Time: Standard ☐ Backup (only) Sample Condition

Rush YES SAME DAY TAT ☒ Cool Intact Observed Temp. °C

Thermometer ID #440

Correction Factor 2.5°C

3/28/24 7:0

Yes ☐ No ☐

Yes ☐ No ☐

Corrected Temp. °C

Verbal Result: ☐ Yes ☐ No

Add Phone #:

All Results are emailed. Please provide Email address: Sam.Abbott@tetratech.com AND Christian.L.Will@tetratech.com

REMARKS: Same Day RUSH TAT

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FORM-006 R 3.2 10/07/21

APPENDIX F

Waste Manifests



Customer Copy



Northern Delaware Basin Landfill
2029 West NM Hwy 128
Jal NM 88252

---WASTE TICKET---

Ticket # 233573

Start: 03/25/2024 09:35 AM

End: 03/25/2024 09:41 AM

By: owl.adan

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil	0	18	\$0.01	\$0.18
Hauler: McNabb Partners Driver: Victor Manzano Lease: King Tut Federal Well: 001H AFE #: N/A County, State: LEA (NM) SPT #: 3002541542 Company Man: Ike Tavaréz Site Map 3 Number: N/A Trucking Co Ticket #: N/A Truck Type: Dump Truck UDM: Cuid UDM Count: 18 PF Test Result: Pass H2S Test: Pass				
H2S Testing	1	1	\$0.00	\$0.00
Paint Filter - PASS	1	1	\$0.00	\$0.00
NORM - PASS	1	1	\$0.00	\$0.00
Additional Photos	1	1	\$0.00	\$0.00
22	0.0 lbs		\$0.01	\$0.18

SUBTOTAL --> \$0.18
TAX --> \$0.01
ROUNDING --> \$0.00
TOTAL --> \$0.19

Date	Type	Amount
	CASH	\$0.19

Customer: ConocoPhillips Company
Driver: Karen Work



Customer Copy



Northern Delaware Basin Landfill
2029 West NM Hwy 128
Jal NM 88252

---WASTE TICKET---

Ticket # 233596
Start: 03/25/2024 10:34 AM
End: 03/25/2024 10:45 AM
By: owl.adan

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil	0	18	\$0.01	\$0.18
Hauler: McNabb Partners Driver: Victor Manzano Lease: King Tut Federal Well: 001H AFE #: N/A County, State: LEA (NM) API #: 3002541542 Client Company Man: Ike Tavarez Rig Name & Number: N/A Trucking Co Ticket #: N/A Truck Type: Dump Truck UOM: CuYd UOM Count: 18 PF Test Result: Pass HDS Test: Pass				
HDS Testing - PASS	1	0	1	\$0.00
Paint Filter - PASS	1	0	1	\$0.00
NORM - PASS	1	0	1	\$0.00
Additional Photos	1	0	1	\$0.00
22		0.0 lbs	\$0.01	\$0.18

SUBTOTAL ----> \$0.18
TAX ----> \$0.01
ROUNDING ----> \$0.00
TOTAL ----> \$0.19

Date	Type	Amount
	CASH	\$0.19

Customer: ConocoPhillips Company
Driver: Karen Work



Customer Copy

WEIGHT TICKET

Ticket # 233620

Start: 03/25/2024 11:32 AM

End: 03/26/2024 11:41 AM

By: cwl:adan

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
18	0	18	\$0.01	\$0.18
Hauler: Nakkab Partners				
Driver: Victor Manzano				
Leaser: King Tut Federal				
Well: OC14				
APE #: N/A				
County, State: LEA (NV)				
API #: 8002541542				
Client Company: Manti Ike Tavaraz				
Rig Name & Number: N/A				
Trucking Co Ticket #: N/A				
Truck Type: Dump Truck				
JOM: Durd				
JOM Count: 18				
RF Test Result: pass				
H2S Test: Pass				
H2S Testing - PASS				
1	0	1	\$0.00	\$0.00
Paint Filter - PASS				
1	0	1	\$0.00	\$0.00
NORM - PASS				
1	0	1	\$0.00	\$0.00
Additional Photos				
1	0	1	\$0.00	\$0.00
22		0.0 lbs	\$0.01	\$0.18

SUBTOTAL ----> \$0.18

TAX ----> \$0.01

ROUNDING ----> \$0.00

TOTAL ----> \$0.19

Customer: ConocoPhillips Company

Driver: Karen Work



Customer Copy

WEIGHT TICKET

Ticket # 233655

Start: 03/25/2024 12:43 PM

End: 03/25/2024 12:52 PM

By: cwl.jazmine

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
116	0	18	10.01	\$0.18
Hauler: NkVab Partners				
Driver: Victor Martinez				
Lease: King 1st Federal				
Well: OC-1				
AFE #: N/A				
County, Spatter LBA (NY)				
API #: 3002341542				
Client Company Name: Ice Taveraz				
Rig Name & Number: N/A				
Trucking Co Ticket #: N/A				
Truck Type: Dump Truck				
JOM: Durd				
JOM Count: 12				
RF Test Result: Pass				
H2S Test: Pass				
H2S Testing - PASS				
0	1	10.00		\$0.00
Paint Filter - PASS				
0	1	10.00		\$0.00
WORM - PASS				
0	1	10.00		\$0.00
Additional Photos				
0	1	10.00		\$0.00
22	0.0 lbs	10.01		\$0.18

SUBTOTAL ----> \$0.18

TAX ----> \$0.01

ROUNDING ----> \$0.00

TOTAL ----> \$0.19

Customer: ConocoPhillips Company
Driver: Karen Work



Customer Copy

WEIGHT TICKET

Ticket # 233676
 Start: 03/25/2024 01:10 PM
 End: 03/25/2024 01:54 PM
 By: wsl.jazmine

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil	0	18	10.01	\$0.18

Hauler: McNabb Partners
 Driver: Victor Menzano
 Lease: King Tut Federal
 Well: OC-1
 AFE #: N/A
 County, State: LEA (NV)
 API #: 3002541542
 Client Company Name: Ice Lavarez
 License & Number: N/A
 Trailing 80 Ticket #: N/A
 Truck Type: Dump Truck
 Units: 18
 RF Test Result: Pass
 H2S Test: Pass

H2S Testing - PASS	0	1	10.00	\$0.00
--------------------	---	---	-------	--------

Paint Filter - PASS	0	1	10.00	\$0.00
---------------------	---	---	-------	--------

VORM - PASS	0	1	10.00	\$0.00
-------------	---	---	-------	--------

Additional Photos	0	1	10.00	\$0.00
-------------------	---	---	-------	--------

22	0.0 lbs	10.01	\$0.18
----	---------	-------	--------

SUBTOTAL ---> \$0.18

TAX ---> \$0.01

ROUNDING ---> \$0.00

TOTAL ---> \$0.19

Customer: EOG Resources



Customer Copy

WEIGHT TICKET

Ticket # 233705

Start: 03/25/2024 02:48 PM

End: 03/25/2024 03:05 PM

By: cwl.jazwire

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
18	0	18	10.01	\$0.18
Hauler: McNabb Partners				
Driver: Victor Menzies				
Leaser: King Tut Federal				
Well: 001				
REF: N/A				
County, State: LEA (NY)				
API #: 5002541542				
Client Company: Marc Ice Taveraz				
Truck Name & Number: 47A				
Trucking Co Ticket #: N/A				
Truck Type: Dump Truck				
JOM: 0000				
JOM Count:				
PF Test Result: Pass				
H2S Test: Pass				
H2S Testing - PASS				
1	0	1	10.00	\$0.00
Paint Filter - PASS				
1	0	1	10.00	\$0.00
NORM - PASS				
1	0	1	10.00	\$0.00
Additional Photos				
1	0	1	10.00	\$0.00
22	0.0 lbs		10.01	\$0.18
SUBTOTAL --->				\$0.18
TAX --->				\$0.01
ROUNDING --->				\$0.00
TOTAL --->				\$0.19

Customer: ConocoPhillips Company
Driver: Karen Work



Customer Copy

WEIGHT TICKET

Ticket # 235894

Start: 03/22/2024 09:46 AM

End: 03/26/2024 09:52 AM

Browlادن

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
16	0	16	\$0.01	\$0.16
Hauler: Nakhb Partners				
Driver: Victor Manzano				
Lease: King Tut Federal				
Well: OC14				
AFE #: N/A				
County, State: LBA (NY)				
API #: 6002541542				
Client Company: Man: Ice Javarez				
Rig Name & Number: N/A				
Trucking Co Ticket #: N/A				
Truck Type: Dump Truck				
JOM: Curyd				
JOM Count: 16				
PE Test Result: Pass				
H2S Test: Pass				
H2S Testing - PASS				
1	0	1	\$0.00	\$0.00
Paint Filter - PASS				
1	0	1	\$0.00	\$0.00
NORM - PASS				
1	0	1	\$0.00	\$0.00
Additional Photos				
1	0	1	\$0.00	\$0.00
20	0.0 lbs		\$0.01	\$0.16

SUBTOTAL ----> \$0.16

TAX ----> \$0.01

ROUNDING ----> \$0.00

TOTAL ----> \$0.17

Customer: ConocoPhillips Company

Driver: Karen Work



Customer Copy

WEIGHT TICKET

Ticket # 233897

Start: 03/25/2024 10:10 AM

End: 03/26/2024 10:07 AM

By: awl.amy

GROSS	TAKE	NET	PRICE	AMOUNT
Contaminated Soil				
18	0	18	10.01	\$0.18
Hauler: Nakabo Partners				
Driver: Asia Mayberry				
Lease: King Tut Federal				
Well: OC14				
APE #: N/A				
County, State: LEA (N*)				
API #: 3002341542				
Manifest #: 10				
Client Company Name: Asia Mayberry				
Rig Name & Number: N/A				
Trucking Co Ticket #: N/A				
Truck Type: Belly Dumps				
JOM: Jurd				
JOM Count: 18				
RF Test Result: Pass				
H2S Test: Pass				
H2S Testing - PASS				
0	1	10.00	\$0.00	
Paint Filter - PASS				
0	1	10.00	\$0.00	
NORM - PASS				
0	1	10.00	\$0.00	
Additional Photos				
0	1	10.00	\$0.00	
22	0.0 lbs	10.01	\$0.18	

SUBTOTAL ----> \$0.18

TAX ----> \$0.01

ROUNDING ----> \$0.00

TOTAL ----> \$0.19

Customer: ConocoPhillips Company

Driver: Karen Work

King Tut DASH

Truck # 83

ACIE



Customer Copy

WEIGHT TICKET

Ticket # 233920

Start: 03/22/2024 10:13 AM

End: 03/26/2024 11:08 AM

By: cwl.adan

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
16	0	16	\$0.01	\$0.16
Hauler: McKabb Partner				
Driver: Victor Manzano				
Lease: King Tut Federal				
Well: OCT-4				
APR #: N/A				
County, Spates LEA (NY)				
API #: 8002541542				
Client Company: Man: Ike Tavaraz				
Rig Name & Number: N/A				
Trucking Co Ticket #: N/A				
Truck Type: Dump Truck				
JOM: Durd				
JOM Count: 16				
PF Test Result: Pass				
H2S Test: Pass				
H2S Testing - PASS				
3		1	\$0.00	\$0.00
Paint Filter - PASS				
3		1	\$0.00	\$0.00
NORM - PASS				
3		1	\$0.00	\$0.00
Additional Photos				
3		1	\$0.00	\$0.00
20		0.0 lbs	\$0.01	\$0.16

SUBTOTAL ----> \$0.16
 TAX ----> \$0.01
 ROUNDING ----> \$0.00
 TOTAL ----> \$0.17

Customer: ConocoPhillips Company
 Driver: Karen Work



Customer Copy

WEIGHT TICKET

Ticket # 233931

Start: 03/25/2024 11:15 AM

End: 03/26/2024 11:24 AM

Browladen

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
18	0	18	10.01	\$0.18
Hauler: Mohabb Partners				
Driver: Asia Mayberry				
Lease: King Tut Federal				
Well: OC-1				
AGE #: N/A				
County, State: LBA (NY)				
API #: 3002541542				
Client Company Name: Ixe Tavaraz				
Rig Name & Number: N/A				
Trucking Co Ticket #: N/A				
Truck Type: Belly Dumps				
JOM: Dwyd				
JOM Count: 18				
RF Test Result: Pass				
H2S Test: Pass				
H2S Testing - PASS	0	1	10.00	\$0.00
Paint Filter - PASS	0	1	10.00	\$0.00
NORM - PASS	0	1	10.00	\$0.00
Additional Photos	0	1	10.00	\$0.00
22	0.0 lbs		10.01	\$0.18

SUBTOTAL ----> \$0.18
 TAX ----> \$0.01
 ROUNING ----> \$0.00
 TOTAL ----> \$0.19

Customer: ConocoPhillips Company

Driver: Karen Work

King Tut 0434

Truck M 83

Acce



Customer Copy

-----WEIGHT TICKET-----

Ticket # 233953

Start: 03/23/2024 12:14 PM

End: 03/26/2024 12:13 PM

By: CML, aden

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
16	0	16	10.01	\$0.16
Hauler: McNabb Partners				
Driver: Victor Manzana				
Lease: King Tut Federal				
Well: OC-1				
AFE #: N/A				
County, State: LEA (NM)				
API #: 3002541542				
Client Company Name: Ice Taveraz				
Rig Name & Number: N/A				
Trucking Co Ticket #: N/A				
Truck Type: Dump Truck				
JOM: Dwyd				
JOM Count: 18				
PF Test Result: Pass				
H2S Test: Pass				
H2S Testing - PASS				
1	0	1	10.00	\$0.00
Paint Filter - PASS				
1	0	1	10.00	\$0.00
NORM - PASS				
1	0	1	10.00	\$0.00
Additional Photos				
1	0	1	10.00	\$0.00
20		0.0 lbs	10.01	\$0.16

SUBTOTAL ----> \$0.16

TAX ----> \$0.01

ROUNDING ----> \$0.00

TOTAL ----> \$0.17

Customer: ConocoPhillips Company

Driver: Karen Work



Customer Copy

WEIGHT TICKET

Ticket # 233973

Start: 03/25/2024 12:45 PM

End: 03/26/2024 12:58 PM

B/cowl,adan

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
18	0	18	10.01	\$0.18
Hauler: McKabb Partners				
Driver: Asia Mayberry				
Lease: King Tut Federal				
Wells: OC-4				
AFE #: N/A				
County: Shasta LBA (N/A)				
API #: 0002541542				
Client Company: Mario Ibarra				
Trig Name & Number: N/A				
Trucking Co Ticket #: N/A				
Truck Type: Belly Dumps				
JOM: Durd				
JOM Count: 18				
PF Test Result: Pass				
H2S Test: Pass				
H2S Testing - PASS	0	1	10.00	\$0.00
Paint Filter - PASS	0	1	10.00	\$0.00
NORM - PASS	0	1	10.00	\$0.00
Additional Photos	0	1	10.00	\$0.00
22	0.0 lbs	10.01		\$0.18

SUBTOTAL ---> \$0.18

TAX ---> \$0.01

ROUNDING ---> \$0.00

TOTAL ---> \$0.19

Customer: ConocoPhillips Company

Driver: Karen Work

King Tut 003 H

Truck M83

Acie



Customer Copy

WEIGHT TICKET

Ticket # 234019

Start: 03/25/2024 02:48 PM

End: 03/26/2024 02:50 PM

B/COW/1.adan

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
18	0	18	10.01	\$0.18
Hauler: McNabb Partners Driver: Angie Mayberry Lease: King Tut Federal Well: OC-1 AFE #: N/A County, Spatter: LEA (N*) API #: 3002541542 Client Company Name: Ica Ivaraz Rig Name & Number: N/A Trucking Co Ticket #: N/A Truck Type: Belly Dumps JOM: Durd JOM Count: 18 PF Test Result: Pass H2S Test: Pass				
H2S Testing - PASS	0	1	10.00	\$0.00
Paint Filter - PASS	0	1	10.00	\$0.00
NORM - PASS	0	1	10.00	\$0.00
Additional Photos	0	1	10.00	\$0.00
22		22.00 lbs	10.01	\$0.18
SUBTOTAL ---->				\$0.18
TAX ---->				\$0.01
ROUNDING ---->				\$0.00
TOTAL ---->				\$0.19

Customer: ConocoPhillips Company

Driver: Karen Work

King Tut 003 H

Track M83

ACIE



Customer Copy

WEIGHT TICKET

Ticket # 234632

Start: 03/25/2024 09:46 AM

End: 03/26/2024 09:51 AM

By: cwl.jayden

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
18	0	18	\$0.01	\$0.18
Hauler: McNabb Partners				
Driver: Jeremy Ortega				
Lease: King Tut Fed				
Well: OC14				
AFE #: N/A				
County, State: LEA (NY)				
API #: 6002541542				
Client Company Name: Ice Tavaroz				
Rig Name & Number: N/A				
Trucking Co Ticket #: N/A				
Truck Type: Dump Truck				
JOM: Durd				
JOM Count: 18				
RF Test Result: Pass				
H2S Test: Pass				
H2S Testing - PASS				
1	0	1	\$0.00	\$0.00
Paint Filter - PASS				
1	0	1	\$0.00	\$0.00
NORM - PASS				
1	0	1	\$0.00	\$0.00
Additional Photos				
1	0	1	\$0.00	\$0.00
22		0.0 lbs	\$0.01	\$0.18

SUBTOTAL ----> \$0.18

TAX ----> \$0.01

ROUNDING ----> \$0.00

TOTAL ----> \$0.19

Customer: ConocoPhillips Company

Driver: Karen Work



Customer Copy

WEIGHT TICKET

Ticket # 234629

Start: 03/28/2024 09:41 AM

End: 03/28/2024 09:51 AM

By: owl.geraldine

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
16	0	16	\$0.01	\$0.16
Hauler: No Nabb Partners				
Driver: Victor Manzano				
Lease: King Tut				
Well: OC14				
APE #: N/A				
County, State: LEA (NV)				
API #: N/A				
Manifest #: 17				
Client Company Name: Ice Taveraz				
Rig Name & Number: N/A				
Trucking Co Ticket #: N/A				
Truck Type: Dump Truck				
JOM: Guind				
JOM Count: 16				
RF Test Result: Pass				
H2S Test: Pass				
H2S Testing - PASS				
1	0	1	\$0.00	\$0.00
Paint Filter - PASS				
1	0	1	\$0.00	\$0.00
NORM - PASS				
1	0	1	\$0.00	\$0.00
Additional Photos				
1	0	1	\$0.00	\$0.00
20	0.0 lbs		\$0.01	\$0.16

SUBTOTAL ----> \$0.16

TAX ----> \$0.01

ROUNDING ----> \$0.00

TOTAL ----> \$0.17

Customer: ConocoPhillips Company

Driver: Karen Work



Customer Copy

WEIGHT TICKET

Ticket # 234662

Start: 03/23/2024 11:01 AM

End: 03/26/2024 11:08 AM

By: DWLgeraldine

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
16	0	16	\$0.01	\$0.16
Hauler: McKabb Driver: Victor Manzano Lease: King Tut Well: OCT4 AFE #: N/A County: Sevier Dump Truck API #: N/A Manifest #: N/A Client Company Name: Ixwe Tavaréz Rig Name & Number: N/A Trucking Co Ticket #: N/A Truck Type: Dump Truck JOM: Durd JOM County: 16 PF Test Results: Pass H2S Test: Pass H2S Testing - PASS 1 10.00 \$0.00 Paint Filter - PASS 1 10.00 \$0.00 NORM - PASS 1 10.00 \$0.00 Additional Photos 1 10.00 \$0.00 20 0.0 lbs 10.01 \$0.16 SUBTOTAL ----> \$0.16 TAX ----> \$0.01 ROUNDING ----> \$0.00 TOTAL ----> \$0.17				

Customer: ConocoPhillips Company

Driver: Karen Work



Customer Copy

WEIGHT TICKET

Ticket # 234664

Start: 03/26/2024 11:16 AM

End: 03/26/2024 11:11 AM

By: owl.geraldine

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
16	0	16	10.01	\$0.16
Hauler: McNabb				
Driver: Jany Ortega				
Lease: King Tut				
Well: OCH				
AFE #: N/A				
County, States LEA (N/A)				
API #: N/A				
Manifest #: N/A				
Client Company Man: Ike Tavaraz				
Rig Name & Number: N/A				
Trucking Co Ticket #: N/A				
Truck Type: Dump Truck				
JOM: Durd				
JOM Count: 16				
PF Test Result: Pass				
H2S Test: Pass				
H2S Testing - PASS				
1	0	1	10.00	\$0.00
Paint Filter - PASS				
1	0	1	10.00	\$0.00
NDRM - PASS				
1	0	1	10.00	\$0.00
Additional Photos				
1	0	1	10.00	\$0.00
20		0.0 lbs	10.01	\$0.16

SUBTOTAL ----> \$0.16

TAX ----> \$0.01

ROUNDING ----> \$0.00

TOTAL ----> \$0.17

Customer: ConocoPhillips Company

Driver: Karen Work



Customer Copy

WEIGHT TICKET

Ticket # 234696

Start: 03/25/2024 12:15 PM

End: 03/26/2024 12:00 PM

By: cwl.jaycen

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
16	0	16	\$0.01	\$0.16
Hauler: McNabb Partners				
Driver: Victor Martinez				
Lease: King Tut Pad				
Well: OC-4				
WFE #: N/A				
County: Spotsylvania (VA)				
API #: 5002541542				
Client Company Name: Ixe Tavaraz				
Rig Name & Number: N/A				
Trucking Co Ticket #: N/A				
Truck Type: Dump Truck				
JOM: Cuyd				
JOM Count: 16				
PF Test Result: Pass				
H2S Test: Pass				
H2S Testing - PASS				
1	0	1	\$0.00	\$0.00
Paint Filter - PASS				
1	0	1	\$0.00	\$0.00
NORM - PASS				
1	0	1	\$0.00	\$0.00
Additional Photos				
1	0	1	\$0.00	\$0.00
20		0.0 lbs	\$0.01	\$0.16

SUBTOTAL ----> \$0.16

TAX ----> \$0.01

ROUNDING ----> \$0.00

TOTAL ----> \$0.17

Customer: ConocoPhillips Company

Driver: Karen Work



Customer Copy

WEIGHT TICKET

Ticket # 234697

Start: 03/28/2024 12:19 PM

End: 03/28/2024 12:30 PM

By: twl.jaycer

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
16	0	16	10.01	\$0.16
Hauler: Monabb Partners				
Driver: Jeremy Ortega				
Lease: King Tut Pad				
Well: OC14				
AFE #: N/A				
County, State: LEA (NM)				
API #: 3002341542				
Client Company Name: Ice Taveres				
Rig Name & Number: N/A				
Trucking Co Ticket #: N/A				
Truck Type: Dump Truck				
JOM: Durd				
JOM Count: 16				
RF Test Result: Pass				
42S Test: Pass				
42S Testing - PASS				
1	0	1	10.00	\$0.00
Paint Filter - PASS				
1	0	1	10.00	\$0.00
NDRM - PASS				
1	0	1	10.00	\$0.00
Additional Photos				
1	0	1	10.00	\$0.00
20		0.0 lbs	10.01	\$0.16

SUBTOTAL ----> \$0.16
 TAX ----> \$0.01
 ROUNDING ----> \$0.00
 TOTAL ----> \$0.17

Customer: ConocoPhillips Company
 Driver: Karen Work



WEIGHT TICKET

Ticket # 234963

Start: 03/28/2024 09:14 AM

End: 03/28/2024 09:53 AM

By: JWLgeraldine

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
16	0	16	10.01	\$0.16
Hauler: McNabb Driver: Victor Manzano Lease: King Tut Well: OCT-4 AFE #: N/A County: States LEA (N/A) API #: N/A Client Company: Man: Joe Tavaraz Rig Name & Number: N/A Trucking Co Ticket #: N/A Truck Type: Dump Truck JOM: Juyd JOM Count: 18 RF Test Result: Pass H2S Test: Pass				
H2S Testing - PASS	0	1	10.00	\$0.00
Paint Filter - PASS	0	1	10.00	\$0.00
NORM - PASS	0	1	10.00	\$0.00
Additional Photos	0	1	10.00	\$0.00
20		0.0 lbs	10.01	\$0.16

Victor

SUBTOTAL ----> \$0.16
 TAX ----> \$0.01
 ROUNDING ----> \$0.00
 TOTAL ----> \$0.17

Customer: ConocoPhillips Company
 Driver: Karen Work



Customer Copy

WEIGHT TICKET

Ticket # 234976

Start: 03/25/2024 11:02 AM

End: 03/25/2024 11:11 AM

B: C.W.L. Ivan

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
16	0	16	10.01	\$0.16
Hauler: Nakabb Partners				
Driver: Victor Manzana				
Lease: King Tut Fed				
Well: OC-1				
APC #: N/A				
County, State: LEA (NM)				
API #: 0002541542				
Manifest #: 23				
Client Company Name: Ixe Javarez				
Rig Name & Number: N/A				
Trucking Co Ticket #: N/A				
Truck Type: Dump Truck				
JOM: Durd				
JOM Count: 16				
PF Test Result: Pass				
H2S Test: Pass				
H2S Testing - PASS				
1	0	1	10.00	\$0.00
Paint Filter - PASS				
1	0	1	10.00	\$0.00
NORM - PASS				
1	0	1	10.00	\$0.00
Additional Photos				
1	0	1	10.00	\$0.00
20	0.0 lbs		10.01	\$0.16

SUBTOTAL ----> \$0.16
 TAX ----> \$0.01
 ROUNDING ----> \$0.00
 TOTAL ----> \$0.17

Customer: ConocoPhillips Company
 Driver: Karan Work



Customer Copy

WEIGHT TICKET

Ticket # 234992

Start: 03/22/2024 12:14 PM

End: 03/26/2024 12:00 PM

By: cal.jayden

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
16	0	16	10.01	\$0.16
Hauler: McNabb Partners				
Driver: Victor Mezano				
Lease: King Tut Pad				
Well: OC-1				
County, State: LEA (NY)				
API #: 3002541542				
Manifest #: 24				
Client Company Name: Ice Tavaraz				
Rig Name & Number: N/A				
Trucking Co Ticket #: N/A				
Truck Type: Dump Truck				
JOM: Durd				
JOM Count: 16				
RF Test Result: Pass				
H2S Test: Pass				
H2S Testing - PASS				
1	0	1	10.00	\$0.00
Paint Filter - PASS				
1	0	1	10.00	\$0.00
NORM - PASS				
1	0	1	10.00	\$0.00
Additional Photos				
1	0	1	10.00	\$0.00
20	0.0 lbs		10.01	\$0.16

SUBTOTAL ----> \$0.16

TAX ----> \$0.01

ROUNDING ----> \$0.00

TOTAL ----> \$0.17

Customer: ConocoPhillips Company

Driver: Karen Work



Customer Copy

WEIGHT TICKET

Ticket # 235011

Start: 03/18/2024 01:19 PM

End: 03/18/2024 01:21 PM

By: DWL, Ivan

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
16	0	16	10.01	\$0.16
Hauler: McNabb Partners Driver: Victor Manzano Lease: King Tut Fed Well: OC-1 AFE #: N/A County, State: LEA (NV) API #: 3002541542 Client Company Name: Ixe Iavarez Rig Name & Number: N/A Trucking Co Ticket #: N/A Truck Type: Dump Truck JOM: Durd JOM Count: 16 PF Test Result: Pass H2S Test: Pass				
H2S Testing - PASS	0	1	10.00	\$0.00
Paint Filter - PASS	0	1	10.00	\$0.00
NORM - PASS	0	1	10.00	\$0.00
Additional Photos	0	1	10.00	\$0.00
20		10.0 lbs	10.01	\$0.16
SUBTOTAL ---->				\$0.16
TAX ---->				\$0.01
ROUNDING ---->				\$0.00
TOTAL ---->				\$0.17

 Customer: ConocoPhillips Company
 Driver: Karen Work



---WEIGHT TICKET---

Ticket # 235467

Start: 04/01/2024 09:31 AM

End: 04/01/2024 09:58 AM

By: owl_jayce

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
16	0	16	10.01	\$0.16
Hauler: McNabb Partners				
Driver: Victor Manzana				
Lease: King Tut Federal				
Well: OC-1				
County, State: LEA (NY)				
API #: 3002541542				
Client Company Name: Ike Taveraz				
Rig Name & Number: N/A				
Trucking Co Ticket #: N/A				
Truck Type: Dump Truck				
JOM: Gurd				
JOM Count: 16				
PF Test Result: Pass				
H2S Test: Pass				
H2S Testing - PASS				
0		1	10.00	\$0.00
Paint Filter - PASS				
0		1	10.00	\$0.00
NORM - PASS				
0		1	10.00	\$0.00
Additional Photos				
0		1	10.00	\$0.00
20		0.0 lbs	10.01	\$0.16

SUE TOTAL ----> \$0.16

TAX ----> \$0.01

ROUNDING ----> \$0.00

TOTAL ----> \$0.17

Customer: ConocoPhillips Company

Driver: Karen Work

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Santa Fe, NM 87505

QUESTIONS

Action 334672

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 334672
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nOY1721336457
Incident Name	NOY1721336457 WINDWARD FEDERAL #001H @ 30-025-41414
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Well	[30-025-41414] WINDWARD FEDERAL #001H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	WINDWARD FEDERAL #001H
Date Release Discovered	07/25/2017
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 70 BBL Recovered: 60 BBL Lost: 10 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 334672

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	334672
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Christian LLuLL Title: Project Manager Email: christian.llull@tetrattech.com Date: 04/17/2024
--	--

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QUESTIONS, Page 3

Action 334672

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	334672
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

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	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 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 submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	7960
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	559
GRO+DRO	(EPA SW-846 Method 8015M)	305
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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.

On what estimated date will the remediation commence	03/20/2024
On what date will (or did) the final sampling or liner inspection occur	03/28/2024
On what date will (or was) the remediation complete(d)	04/03/2024
What is the estimated surface area (in square feet) that will be reclaimed	2998
What is the estimated volume (in cubic yards) that will be reclaimed	484
What is the estimated surface area (in square feet) that will be remediated	2998
What is the estimated volume (in cubic yards) that will be remediated	484

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

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

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QUESTIONS, Page 4

Action 334672

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	334672
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	OWL LANDFILL JAL [fJEG1635837366]
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@tetrattech.com Date: 04/17/2024
--	--

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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QUESTIONS, Page 5

Action 334672

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 334672
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 334672

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	334672
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	325646
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/26/2024
What was the (estimated) number of samples that were to be gathered	16
What was the sampling surface area in square feet	3200

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2998
What was the total volume (cubic yards) remediated	484
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	2998
What was the total volume (in cubic yards) reclaimed	484
Summarize any additional remediation activities not included by answers (above)	NA

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

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

I hereby agree and sign off to the above statement	Name: Christian LLuLL Title: Project Manager Email: christian.llull@tetratech.com Date: 04/17/2024
--	---

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QUESTIONS, Page 7

Action 334672

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	334672
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	2998
What was the total volume of replacement material (in cubic yards) for this site	484
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	04/03/2024
Summarize any additional reclamation activities not included by answers (above)	NA
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Christian LLuLL Title: Project Manager Email: christian.llull@tetrattech.com Date: 04/17/2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 8

Action 334672

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 334672
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS

Action 334672

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	334672
Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation closure and reclamation report approved. A revegetation will need to be submitted prior to this incident reaching the final status of "Revegetation Approved, Restoration Complete". A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	4/19/2024
bhall	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeded activities, inspections, and final pictures when revegetation is achieved.	4/19/2024
bhall	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	4/19/2024