



November 30, 2023

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

**Re: Remediation Work Plan
ConocoPhillips Company (Heritage COG Operating, LLC)
King Tut Federal #001H Flowline Release
Unit Letter D, Section 30, Township 24 South, Range 32 East
Lea County, New Mexico
Incident ID# nKL1630650239**

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 King Tut Federal #001H well (API No. 30-025-41542). 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 New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, the release was caused by a ruptured flowline in the pipeline rights-of-way along the lease road adjacent to the King Tut #001H well pad on October 15, 2016. The release consisted of 20 barrels (bbls) of produced water, of which 15 bbls were reported recovered. The NMOCD received the initial C-141 on October 25, 2016 and subsequently assigned the release the Incident ID nKL1630650239. The initial C-141 form is included in 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 King Tut Federal #001H release (nKL1630650239) footprint coincides with three additional flowline release incidents associated with the King Tut Federal #001H well (nAB1905046526), the King Tut Federal #003H well (nOY1713048453) and the Windward Federal #001H well (nOY1721336457), respectively. Separate Remediation Work Plan 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.

Tetra Tech

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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 as Appendix C.

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

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-4485 closed. Remediation required. See incident #NKL1630650239 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 as Appendix C.

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 Appendix C.

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. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix E.

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.

REMEDIATION WORK PLAN

Based on the site characterization, the collected analytical results, and the NMOCD rejection of the 2023 deferral request, ConocoPhillips proposes to remove the impacted material as indicated in Figure 5. Impacted soils will be excavated using heavy equipment (backhoes, hoe rams, and track hoes) to a maximum depth of 4 feet below surface grade or until a representative sample from the excavation floor is below the applicable reclamation limit or RRAL for chloride. Heavy equipment (backhoe and trackhoe) will be utilized to excavate areas outside the immediate vicinity of pressurized lines and will come no more than 4 feet from any pressurized lines. Impacted soils within the vicinity of the surface and subsurface lines will be removed to the maximum extent practicable using non-aggressive excavation methods.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. In accordance with subsection D of 19.15.29.12 NMAC, the responsible party will notify the appropriate division district office prior to conducting confirmation sampling. Confirmation bottom and sidewall samples representative of no more than 200 square feet will be collected for verification of remedial activities, and analyzed for TPH, BTEX, and chlorides. Once results are received, the excavation will then be backfilled with clean material to surface grade. The estimated volume of material to be remediated is approximately 560 cubic yards.

VARIANCE REQUEST

ConocoPhillips proposes to leave impacted surface (upper four feet) soils (with concentrations greater than the reclamation limit of 600 mg/kg) in place at three (3) of the 2023 additional vertical delineation sampling locations. The areas of boring locations AH-23-12, AH-23-13, and AH-23-20 are overlain with 2 to 3 feet of clean soils, as summarized in Table 3. Only select soil intervals in the upper four feet are impacted with chlorides above the reclamation limit, and the impacted soils are situated stratigraphically below the clean soils.

The root zone for most native plants is in the uppermost four feet, however, most roots are in the top 6 to 24 inches of the soil. Furthermore, the water-absorbing feeder roots are mostly within the upper four inches. There is existing vegetative cover in many portions of the site, and the primary purpose of remediation and reclamation is to re-establish vegetative growth. Disturbance and excavation of areas exhibiting recolonization and a self-sustaining plant community are proposed to be left undisturbed.

The release impact is fully delineated and groundwater in this area is more than 100 feet below surface. The established vegetative cover at the Site reflects a life-form ratio of plus or minus fifty percent of pre-

Remediation Work Plan
November 30, 2023

ConocoPhillips

disturbance levels. As the Site is located on federal land, ConocoPhillips will seek BLM concurrence for this variance request and proposed scope of remediation.

CONCLUSION

All analytical results associated with the horizontal delineation to the north, east, south, and west of the release area were below applicable reclamation requirements for all constituents. Horizontal delineation was achieved, per NMOCD request.

Based on the results of the additional release delineation activities, ConocoPhillips will remediate impacted areas to 4 feet bgs, as indicated in Figure 5. As described in the variance request, the areas which have soil chloride concentrations above the reclamation limit but which are overlain by 2-3 feet of clean soil do not cause an imminent risk to human health, the environment, or groundwater.

The proposed remediation activities will be conducted within 90 days of acceptance of the proposed plan. If you have any questions concerning the additional assessment activities for the Site or the proposed remediation work plan, please call me at (512) 739-7874.

Sincerely,

Tetra Tech, Inc.



Samantha Abbott, P.G.
Project Manager



Christian M. Llull, P.G.
Program Manager

cc:
Mr. Ike Tavaréz, RMR – ConocoPhillips

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 – Proposed Remediation (Tetra Tech 2023)

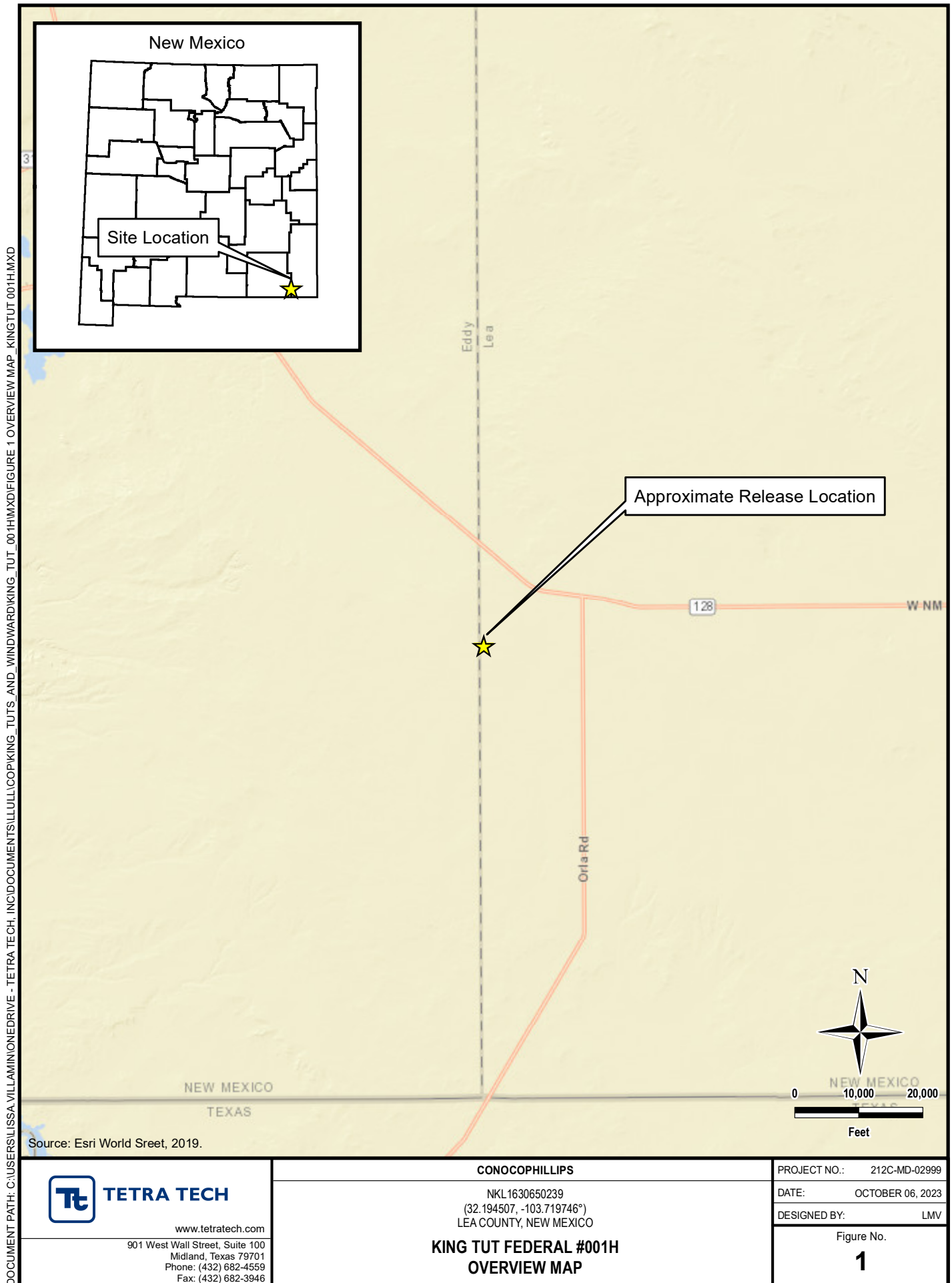
Tables:

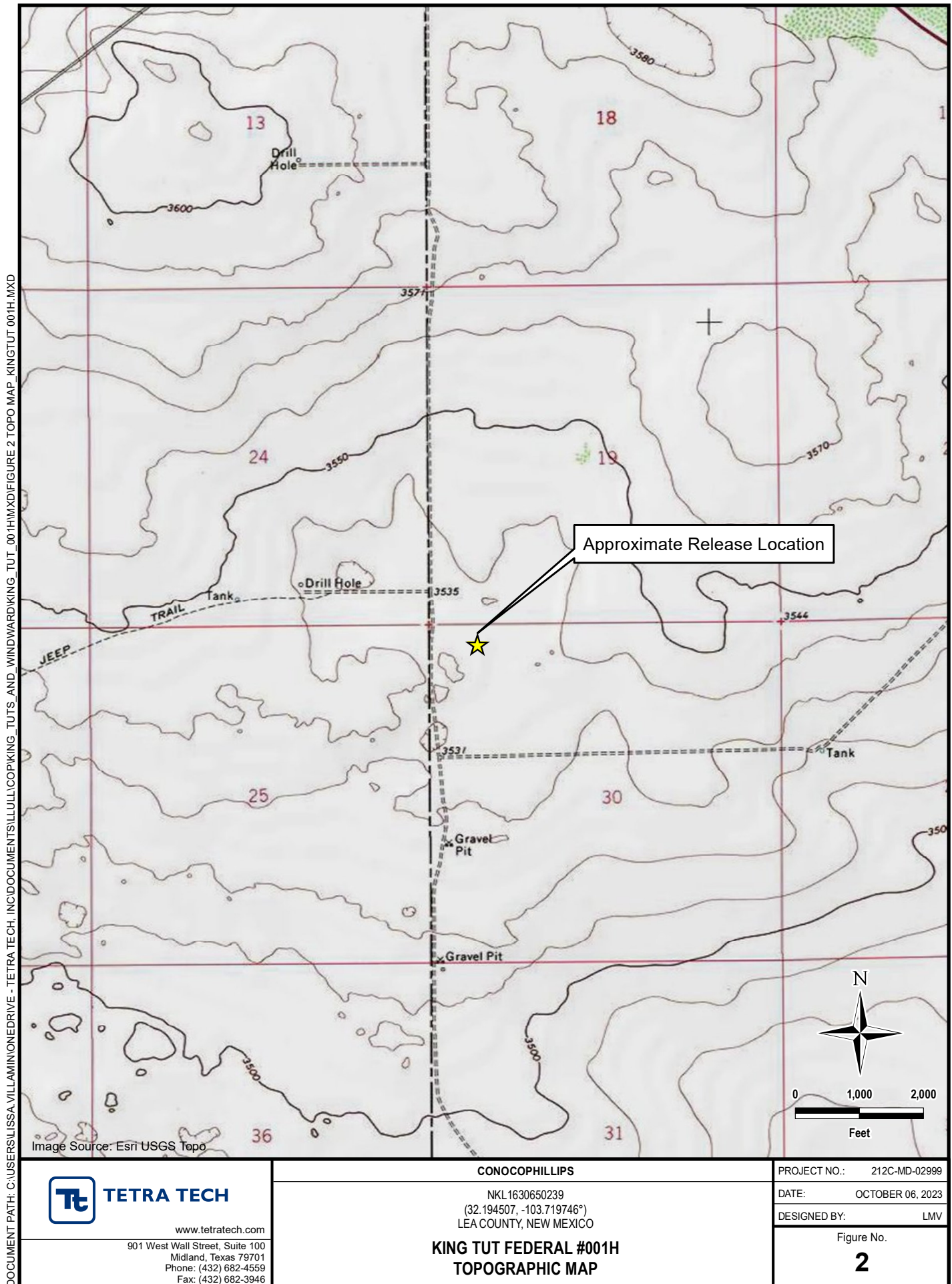
- Table 1 – Summary of Analytical Results – 2017-2018 Initial Soil Assessment
- Table 2 – Summary of Analytical Results – 2023 Horizontal Delineation Soil Assessment
- Table 3 – Summary of Analytical Results – 2023 Vertical Delineation Soil Assessment

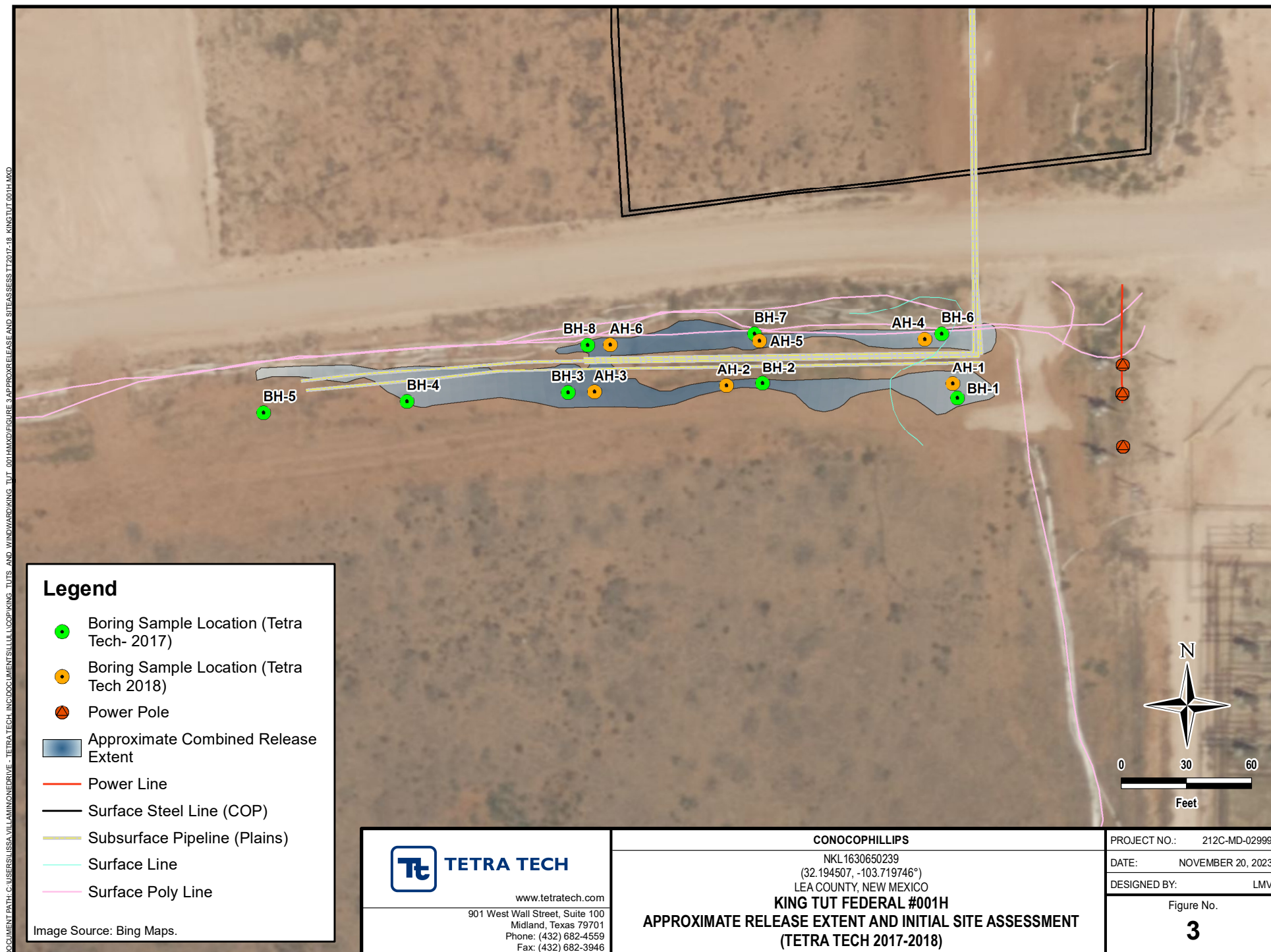
Appendices:

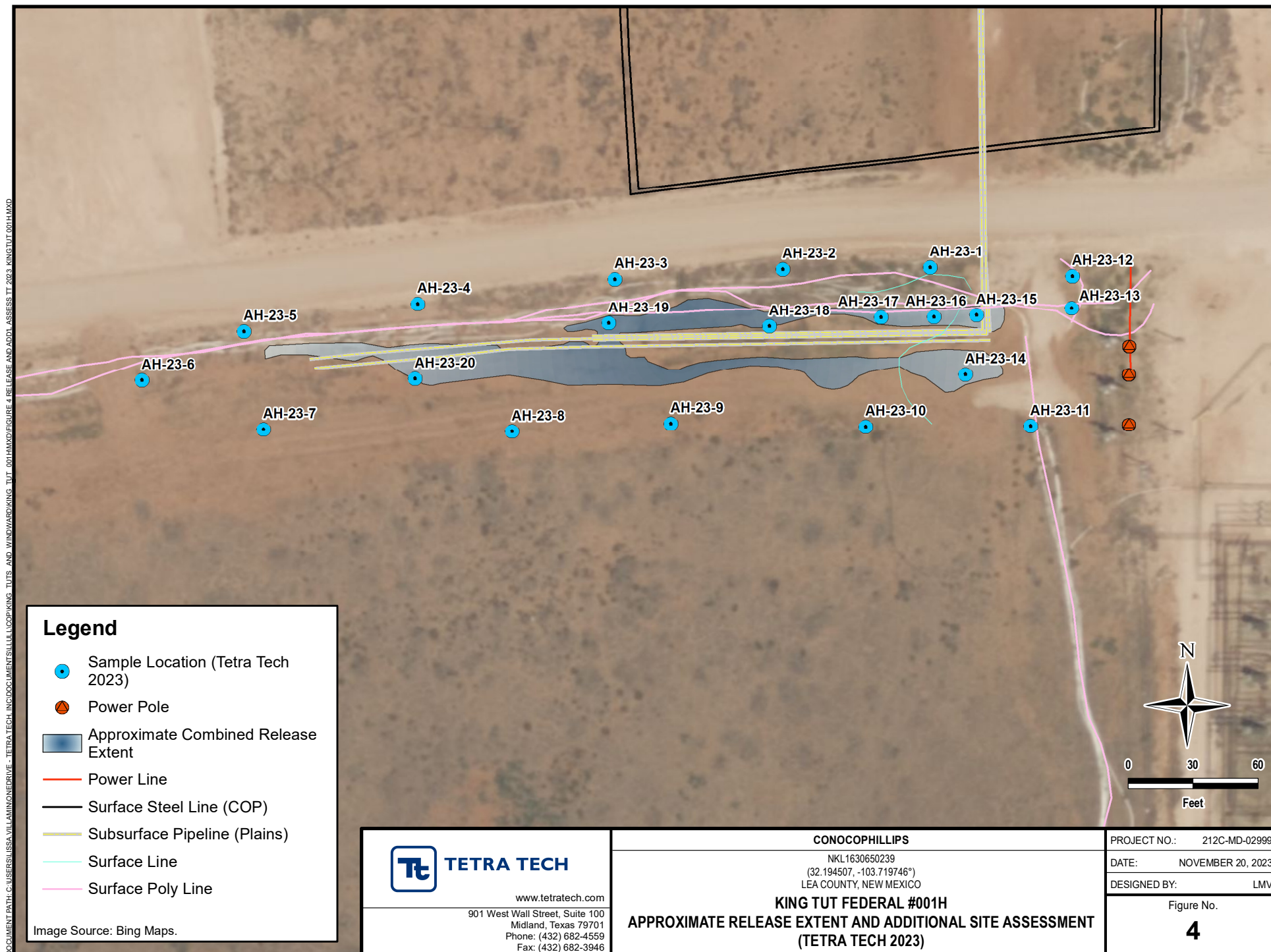
- Appendix A – C-141 Forms
- Appendix B – Site Characterization Data
- Appendix C – Regulatory Correspondence
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Analytical Data

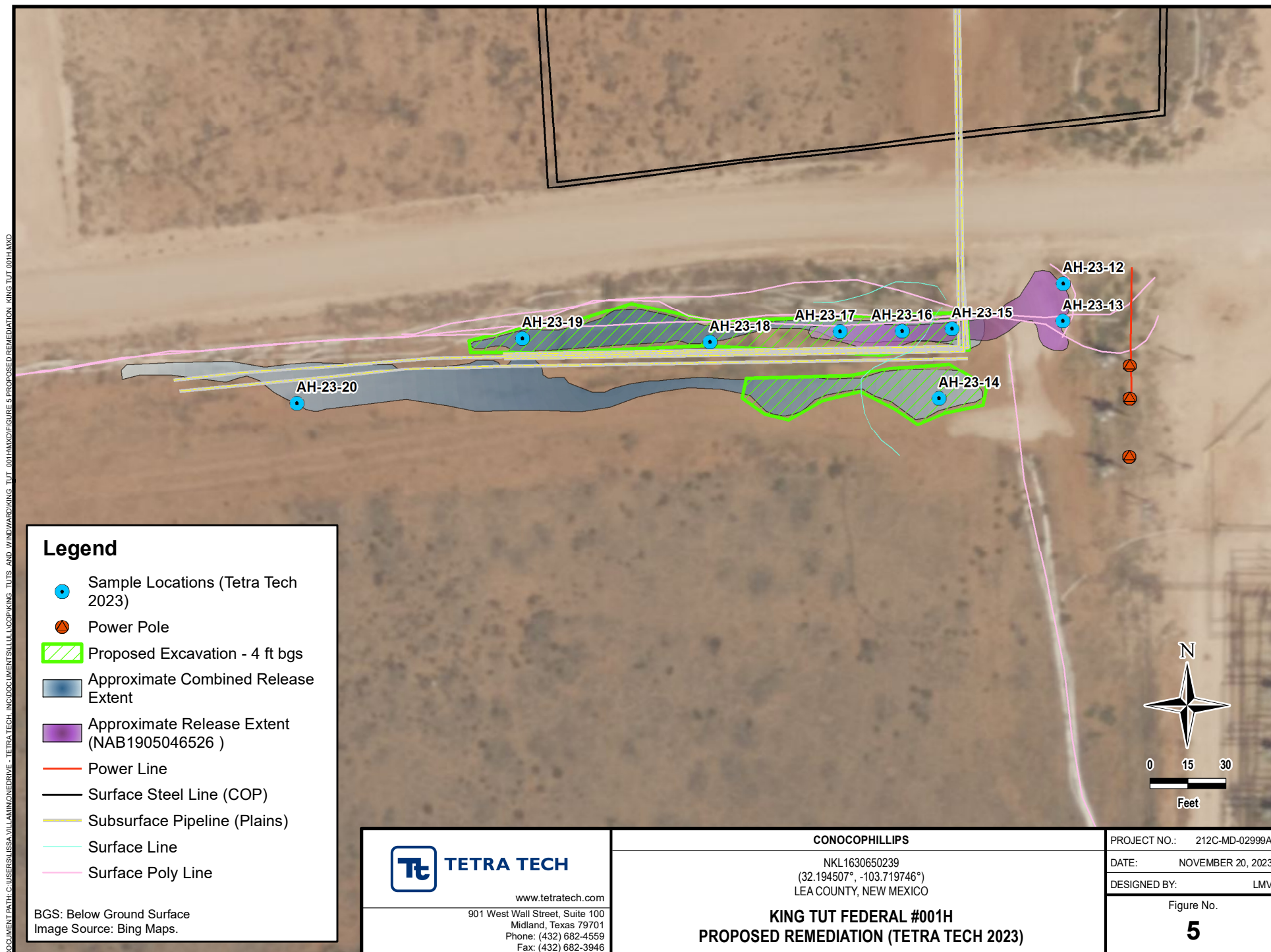
FIGURES











TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
2017-2018 INITIAL SOIL ASSESSMENT - nKL1630650239
CONOCOPHILLIPS
KING TUT 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	mg/kg	Q
BH-1	8/15/2017	0-1	1840		<0.00200		<0.00200		<0.00200		<0.00399		<0.00200		<0.00200		<0.00200		<15.0		143		<15.0		143	
		2-3	2020		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		4-5	1790		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		6-7	2520		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		9-10	1090		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		14-15	199		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		19-20	116		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
BH-2	8/15/2017	0-1	24.8		<0.00202		<0.00202		<0.00202		<0.00404		<0.00202		<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		NA	
		4-5	1110		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		6-7	920		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		9-10	213		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		14-15	175		NA		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		<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		<0.00199		<14.9		<14.9		<14.9		<14.9	
		2-3	28.5		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		4-5	7960		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		6-7	796		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		9-10	40.5		NA		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		<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		<0.00200		<15.0		<15.0		<15.0		<15.0	
		2-3	469		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		4-5	737		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		6-7	58.8		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		9-10	41.8		NA		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		<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		<0.00200		<15.0		<15.0		<15.0		<15.0	
		2-3	47.8		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		4-5	28		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		6-7	24.6		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		9-10	24.8		NA		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		<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		<0.00201		<15.0		<15.0		<15.0		<15.0	
		2-3	232		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		4-5	859		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		6-7	2440		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		9-10	562		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		14-15	295		NA		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		<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		<0.00347		<15.0		41.7		<15.0		41.7	
		2-3	1370		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		4-5	3100		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		6-7	154		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		9-10	46.2		NA		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		<0.00199		<15.0		<15.0		<15.0		<15.0	

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
2017-2018 INITIAL SOIL ASSESSMENT - nKL1630650239
CONOCOPHILLIPS
KING TUT 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		
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 - nKL1630650239
CONOCOPHILLIPS
KING TUT 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	mg/kg	Q
AH-5	6/27/2018	0-1	<i>2650</i>		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		1-1.5	<i>2590</i>		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		2-2.5	<i>3240</i>		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		3-3.5	<i>6070</i>		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		4-4.5	3890		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		5-5.5	3280		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		6-6.5	2330		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		7-7.5	2540		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		8-8.5	2250		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		9-9.5	2670		NA		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		NA	
		1-1.5	<i>2270</i>		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		2-2.5	<i>2380</i>		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		3-3.5	<i>3340</i>		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		4-4.5	4150		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		5-5.5	2020		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		6-6.5	508		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		7-7.5	1290		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		8.5-9	684		NA		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 SW8015 Mod
NA Sample not analyzed for parameter

QUALIFIERS:

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

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
2023 HORIZONTAL DELINEATION SOIL ASSESSMENT- nKL1630650239
CONOCOPHILLIPS
KING TUT FEDERAL #001H
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEx ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEx		Gro		Dro		Ext Dro		Total TPH (Gro+Dro+Ext Dro)	
															C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆			
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
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 Reclamation Requirements.

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
2023 VERTICAL DELINEATION SOIL ASSESSMENT- nKL1630650239
CONOCOPHILLIPS
KING TUT #001 RELEASE
LEA COUNTY, NM

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)
					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		
		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- nKL1630650239
CONOCOPHILLIPS
KING TUT #001 RELEASE
LEA COUNTY, NM

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:

APPENDIX A C-141 Forms

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

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: COG Operating LLC	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-230-0077
Facility Name: KING TUT FEDERAL #001H	Facility Type: Battery

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-025-41542
------------------------	------------------------	----------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	30	24S	32E	190	North	330	West	Lea

Latitude Longitude

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 20 bbls of PW	Volume Recovered: 15 bbls of PW
Source of Release: Flowline	Date and Hour of Occurrence: 10/15/2016 2:00 PM	Date and Hour of Discovery: 10/15/2016 2:30 PM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*


Describe Cause of Problem and Remedial Action Taken.*

This release was caused by a ruptured flowline. The line was isolated and the damaged section of line was removed and replaced. Vacuum trucks were immediately dispatched to recover all standing fluids.

Describe Area Affected and Cleanup Action Taken.*

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

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Dakota Neel	Approved by Environmental Specialist:	
Title: Environmental Coordinator	Approval Date:	Expiration Date:
E-mail Address: dneel2@concho.com	NMOCD accepts discrete samples only	
Date: October 24, 2016 Phone: 575-748-6933	Conditions of Approval: Notify OCD prior to sampling Submit sample analytics by 12/1/2016	
	Attached <input type="checkbox"/> 1RP 4485	

* Attach Additional Sheets If Necessary

Please see attached
C-141 Directive

nKL1630650239
pKL1630650447

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature:  _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
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: _____ Title: _____
Signature:  _____ Date: _____
email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

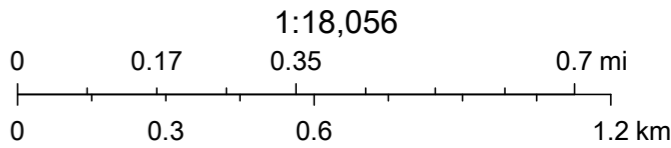
APPENDIX B

Site Characterization Data

OCD Waterbodies Locations



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



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

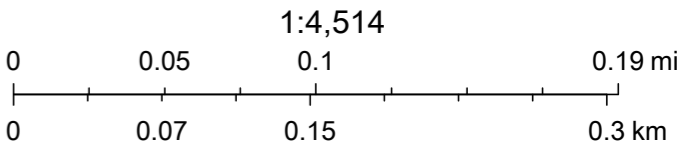
OCD Potential Karst Map



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

UTM NAD83 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

Released to Imaging: 1/17/2024 9:48:55 AM

APPENDIX C

Regulatory Correspondence

From: [Yu, Olivia, EMNRD](#)
To: [Rebecca Haskell](#); [Tavarez, Ike](#); [Tucker, Shelly](#); hprice@blm.gov; [Billings, Bradford, EMNRD](#)
Cc: [Robert McNeill](#); [Dakota Neel](#); [Aaron Lieb](#); [Gonzales, Clair](#)
Subject: RE: COG - King Tut/Windward Work Plan Approval Request
Date: Monday, October 23, 2017 1:59:00 PM

Ms. Haskell:

In regards to the proposed remedial activities for 1RP-4485, 1RP-4696, 1RP-4772:

- After review of the provided data, NMOCDC will agree that BTEX and TPH analyses will not be necessary for the stockpiled soil used for backfilling.
- Correct; for point #3, bottom confirmation samples were not required, only samples from sidewalls.

Thanks,
Olivia

From: Rebecca Haskell [<mailto:RHaskell@concho.com>]
Sent: Monday, October 23, 2017 1:28 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; Tavarez, Ike <Ike.Tavarez@tetrattech.com>; Tucker, Shelly <stucker@blm.gov>; hprice@blm.gov; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Cc: Robert McNeill <RMcNeill@concho.com>; Dakota Neel <DNeel2@concho.com>; Aaron Lieb <ALieb@concho.com>; Gonzales, Clair <Clair.Gonzales@tetrattech.com>
Subject: RE: COG - King Tut/Windward Work Plan Approval Request

Ms. Yu,

1. For areas represented by B-2, B-3, and B-6:
 - First bullet point, why are you requiring that we sample for BTEX and TPH. The spills were produced water and we have already established that BTEX and TPH are not a concern at this site?
 - Third bullet point, bottom samples should not be required because we are installing a liner.

Otherwise COG agrees to the stipulations outlined below,

Thank You,

Becky Haskell
Senior HSE Coordinator
COG Operating LLC
600 W Illinois Avenue | Midland, TX 79701
Direct: 432-818-2372 | Main: 432.683.7443
Cell: 432-556-5130
rhaskell@concho.com



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From: Yu, Olivia, EMNRD [<mailto:Olivia.Yu@state.nm.us>]

Sent: Thursday, October 12, 2017 9:38 AM

To: Tavaréz, Ike; Tucker, Shelly; hprice@blm.gov; Billings, Bradford, EMNRD

Cc: Rebecca Haskell; Robert McNeill; Dakota Neel; Aaron Lieb; Gonzales, Clair

Subject: [External] RE: COG - King Tut/Windward Work Plan Approval Request

**** External email. Use caution. ****

Mr. Tavaréz:

NMOCD will agree to the proposed remediation plan for 1RP-4485, 1RP-4696, 1RP-4772 with these stipulations.

1. For the areas represented by B-2, B-3, and B-6:
 - 2-3 ft. of low-chloride soil is allowed to be stockpiled on plastic on location for use in backfilling. One soil sample per 25 yd³ must be laboratory tested for BTEX (Method 8260 or 8021), TPH extended (Method 8015), and chlorides (Method 300).
 - The 4th-5th foot bgs of soil must be removed and a 40 mil liner properly placed at the bottom.
 - Confirmation bottoms and sidewalls for each of these areas are required at no greater than 50 ft. distance interval.
2. For the area represented by B-4 and B-5, NMOCD will grant that no remedial activity will be required. 2 sidewall samples are required: 1 at the border with the area represented by B-8 and 1 at the border for B-3 area.
3. For the areas represented by B-1, B-7, and B-8: remove 4 ft. of chloride-impacted soil and properly set a 40 mil liner at the bottom. Confirmation sidewall samples are required.
4. Provide a scaled map with 1) locations of confirmation bottom and sidewalls marked for each of the excavated areas; 2) lined areas outlined; and 3) release points for 1RP-4485, 1RP-4696, and 1RP-4772 annotated.

Also, for this release only, NMOCD will not require further vertical delineation for B-8. Please be advised that this is an exception.

Please confirm or inform if additional clarification is required.

Thanks,

Olivia Yu

Environmental Specialist

NMOCD, District I
Olivia.yu@state.nm.us
575-393-6161 x113

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

From: Tavaréz, Ike [<mailto:ike.Tavaréz@tetrattech.com>]
Sent: Thursday, October 5, 2017 3:41 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; Tucker, Shelly <stucker@blm.gov>;
hprice@blm.gov; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Cc: Rebecca Haskell <RHaskell@concho.com>; Robert McNeill <RMcNeill@concho.com>; Dakota
Neel <DNeel2@concho.com>; Aaron Lieb <ALieb@concho.com>; Gonzales, Clair
<Clair.Gonzales@tetrattech.com>
Subject: RE: COG - King Tut/Windward Work Plan Approval Request

Olivia,

Thanks for meeting with me to discuss some of the questions for the above mention project. Let me know if you need additional information. Once approved, the proposed remediation will be implemented.

- For the reuse material, Tetra Tech will remove (0-3'), segregate and stockpile the material into 25-50 cubic yards piles for sampling. If the stockpile is below 600 mg/kg (chlorides), the material will be placed back into the excavation. Any stockpile material (25-50 cubic yards) above 600 mg/kg will be hauled to disposal.
- The area of BH-8 did show a chloride concentration of 782 mg/kg at 24'-25', slightly above the 600 mg/kg threshold. As discussed, the area of BH-8 will be capped with a 40 mil liner, as proposed in the work plan.

Ike Tavaréz, PG | Senior Project Manager
Main: 432.682.4559 | Fax: 432.682.3946 | Cell: 432.425.3878
Ike.Tavaréz@tetrattech.com
Tetra Tech | Complex World, Clear Solutions™
4000 North Big Spring, Suite 401 | Midland, TX 79705 | www.tetrattech.com

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From: Yu, Olivia, EMNRD [<mailto:Olivia.Yu@state.nm.us>]

Sent: Wednesday, October 04, 2017 9:03 AM

To: Gonzales, Clair <Clair.Gonzales@tetrattech.com>; Tucker, Shelly <stucker@blm.gov>; hprice@blm.gov; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>

Cc: Rebecca Haskell <RHaskell@concho.com>; Tavarez, Ike <Ike.Tavarez@tetrattech.com>; Robert McNeill <RMcNeill@concho.com>; Dakota Neel <DNeel2@concho.com>; Aaron Lieb <ALieb@concho.com>

Subject: RE: COG - King Tut/Windward Work Plan Approval Request

Ms. Gonzales:

Based on the information provided, is the implication that all samples for 1RP-4485, 1RP-4696, 1RP-4772 are elevated due to cross contamination?

Irrespective of the depth to groundwater, permissible chloride levels is ≤ 600 mg/kg in 0-4 ft. of soil for remediation. Except for specific circumstances, 4 ft. of chloride-impacted soils must be removed with a minimal 20 mil liner at 4 ft. bgs to encapsulate elevated chloride levels in depth. This is standard NMOCD policy.

NMOCD has not yet decided to grant permission for removal and reuse of soil from 0-3 ft.

Olivia

From: Gonzales, Clair [<mailto:Clair.Gonzales@tetrattech.com>]

Sent: Wednesday, October 4, 2017 7:12 AM

To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; Tucker, Shelly <stucker@blm.gov>; hprice@blm.gov

Cc: Rebecca Haskell <RHaskell@concho.com>; Tavarez, Ike <Ike.Tavarez@tetrattech.com>; Robert McNeill <RMcNeill@concho.com>; Dakota Neel <DNeel2@concho.com>; Aaron Lieb <ALieb@concho.com>

Subject: RE: COG - King Tut/Windward Work Plan Approval Request

Ms. Yu,

Referring to the bottom hole chloride concentration of 782 mg/kg at BH-8; as stated in the work plan, the slightly elevated concentration appears to be caused by cross contamination from the upper soils.

The area of BH-2 did show a chloride concentration of 1,110 mg/kg at 4'-5' below surface, while the areas of boreholes (BH-3 and BH-6) showed elevated concentrations of 7,960 mg/kg (4'-5') and 2,440 mg/kg (6'-7'), respectively. Based on the depth to groundwater in the area, which is between 325' and 350' below surface, the chloride concentration of 1,110 mg/kg detected at BH-2 is not significant and does not appear to be an environmental concern or imminent threat to groundwater.

The work plan proposes excavating the areas of BH-1, BH-3, BH-6, and BH-7 to between 3.0' and 4.0' below surface and capping the areas with a 40 mil liner. The

area of BH-8 will be excavated to 6.0' below surface, if accessible. Based on the data, the soils in the areas of BH-3 and BH-6 are to be removed (0-3.0') and reused for backfill. Soil samples will be collected every 50 yd³ for chlorides by Method 300, as directed.

*Thank you,
Clair Gonzales*

Clair Gonzales | Geologist III

Phone: 432.687.8123 | Mobile 432.260.8634 | Fax: 432.682.3946

clair.gonzales@tetratech.com

Tetra Tech | Complex World, CLEAR SOLUTIONS™

4000 N. Big Spring | Midland, TX 79705 | www.tetratech.com

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From: Yu, Olivia, EMNRD [<mailto:Olivia.Yu@state.nm.us>]

Sent: Tuesday, October 03, 2017 12:53 PM

To: Gonzales, Clair <Clair.Gonzales@tetratech.com>; Tucker, Shelly <stucker@blm.gov>; hprice@blm.gov

Cc: Rebecca Haskell <RHaskell@concho.com>; Tavarez, Ike <Ike.Tavarez@tetratech.com>; Robert McNeill <RMcNeill@concho.com>; Dakota Neel <DNeel2@concho.com>; Aaron Lieb <ALieb@concho.com>

Subject: RE: COG - King Tut/Windward Work Plan Approval Request

Dear Ms. Gonzales:

Please address these concerns regarding the workplan covering 1RP-4485, 1RP-4696, 1RP-4772:

- Vertical delineation for BH-8 is not considered complete at 25 ft. bgs. What is the proposed plan of action?
- Chloride content of the soil profile for BH-2 is similar to BH-3 and BH-6. Why is the proposed course of remedial activity different?
- Please be advised that the conventional remedial activity is 4 ft. excavation with a liner.
- If the proposed 0-3 ft. of soil at BH-3 and BH-6 is to be removed and reused for backfill is deemed permissible, NMOCD will request soils to be sampled every 50 yd³ with Method 300.

Thanks,

Olivia Yu

Environmental Specialist

NMOCD, District I

Olivia.yu@state.nm.us

575-393-6161 x113

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water,

human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Gonzales, Clair [<mailto:Clair.Gonzales@tetrattech.com>]

Sent: Thursday, September 21, 2017 1:03 PM

To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; Tucker, Shelly <stucker@blm.gov>; hprice@blm.gov

Cc: Rebecca Haskell <RHaskell@concho.com>; Tavarez, Ike <Ike.Tavarez@tetrattech.com>; Robert McNeill <RMcNeill@concho.com>; Dakota Neel <DNeel2@concho.com>; Aaron Lieb <ALieb@concho.com>

Subject: COG - King Tut/Windward Work Plan Approval Request

Good Afternoon,

Attached is the work plan for three releases (1RP-4485, 1RP-4696, and 1RP-4772) that occurred on the same location, located in Lea County, New Mexico. Once approved, COG will implement the proposed work plan. Let me know if you have any questions or concerns.

Thank you

Clair Gonzales

Clair Gonzales | Geologist III

Phone: 432.687.8123 | Mobile 432.260.8634 | Fax: 432.682.3946

clair.gonzales@tetrattech.com

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Abbott, Sam

From: OCDOnline@state.nm.us
Sent: Friday, December 9, 2022 2:44 PM
To: Beauvais, Charles R
Subject: [EXTERNAL]The Oil Conservation Division (OCD) has rejected the application, Application ID: 165789

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

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

The OCD has rejected the submitted *Internal Manual Incident File Supporting Documentation (ENV)* (IM-BNF), for incident ID (n#) nKL1630650239, for the following reasons:

- **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-4485 closed.** Remediation required. See incident #NKL1630650239 for more information.
- **Please submit a complete report through the OCD Permitting website by 03/10/2023.**

The rejected IM-BNF can be found in the OCD Online: Permitting - Action Status, under the Application ID: 165789. Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional IM-BNF.

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

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

From: [Hall, Brittany, EMNRD](#)
To: [Abbott, Sam](#)
Cc: [Beauvais, Charles R](#); [Llull, Christian](#); [Chavira, Lisbeth](#)
Subject: RE: [EXTERNAL] Extension Request - Application ID 165789 (nKL1630650239)
Date: Friday, March 10, 2023 2:22:58 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)

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Sam,

Your extension request for **nKL1630650239** is approved. The new due date is June 10, 2023.

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

Thank you,

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

From: Abbott, Sam <Sam.Abbott@tetrattech.com>
Sent: Friday, March 10, 2023 11:31 AM
To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Cc: Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>; Llull, Christian <Christian.Llull@tetrattech.com>; Chavira, Lisbeth <LISBETH.CHAVIRA@tetrattech.com>
Subject: [EXTERNAL] Extension Request - Application ID 165789 (nKL1630650239)

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Ms. Hall:

On behalf of ConocoPhillips, Tetra Tech is requesting a 90-day extension (until June 3, 2023) to complete release delineation activities and associated reporting for the King Tut Federal #001H Release site (**nKL1630650239**).

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

Given the difficulties inherent with available resource allocation for several projects with similar

deadlines within a short period of time, this extension is required to safely complete the additional assessment. ConocoPhillips plans to conduct the additional assessment in the coming month however, and once the sampling data is collected, tabulated, and evaluated, a revised report will be submitted to the OCD.

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

Sam

Samantha Abbott, PG | Project Manager

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

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From: [Hall, Brittany, EMNRD](#)
To: [Abbott, Sam](#)
Cc: [Tavarez, Ike](#); [Llull, Christian](#); [Chavira, Lisbeth](#)
Subject: RE: [EXTERNAL] Extension Request - Application ID 222185 (nKL1630650239)
Date: Tuesday, September 12, 2023 2:33:03 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)

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Sam,

The extension for **nKL1630650239** is approved. New due date is December 5, 2023.

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

Thank you,

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

From: Abbott, Sam <Sam.Abbott@tetrattech.com>
Sent: Tuesday, September 12, 2023 11:31 AM
To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Cc: Tavarez, Ike <Ike.Tavarez@conocophillips.com>; Llull, Christian <Christian.Llull@tetrattech.com>; Chavira, Lisbeth <LISBETH.CHAVIRA@tetrattech.com>
Subject: [EXTERNAL] Extension Request - Application ID 222185 (nKL1630650239)

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

Ms. Hall,

On behalf of ConocoPhillips, Tetra Tech is requesting a 90-day extension (until December 5, 2023) to complete the remediation and ensuing reporting for the King Tut Federal #001H Release site (nKL1630650239).

The OCD rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nKL1630650239, for the following reasons:

- **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.

ConocoPhillips has safely completed additional assessment activities at the Site to evaluate the status of the identified open incident # NAB1905046526. Given the complexities of this site, including numerous surface and subsurface utilities within the release footprint, this incident is now being handled by the risk management and remediation group at ConocoPhillips. Based on the results of the additional assessment completed at the combined release area, ConocoPhillips will proceed with remediation of soils 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.

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

Thank you,
Sam

Samantha Abbott, PG | Project Manager

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

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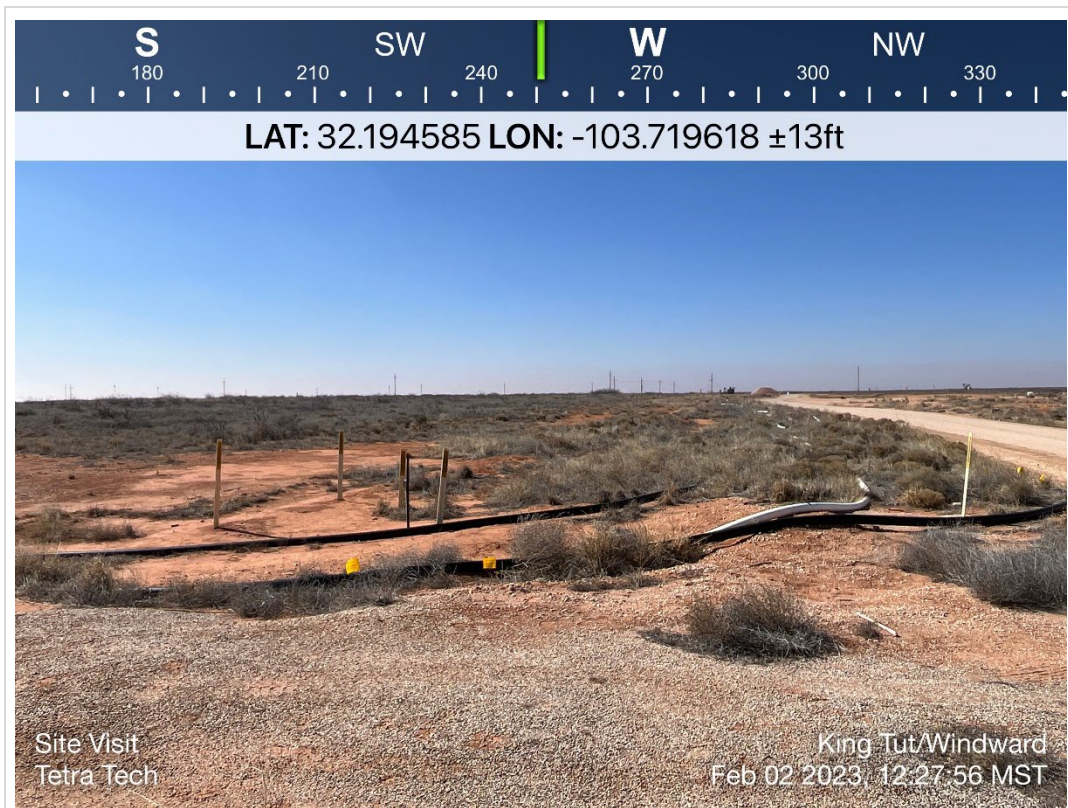


Please consider the environment before printing. [Read more](#)

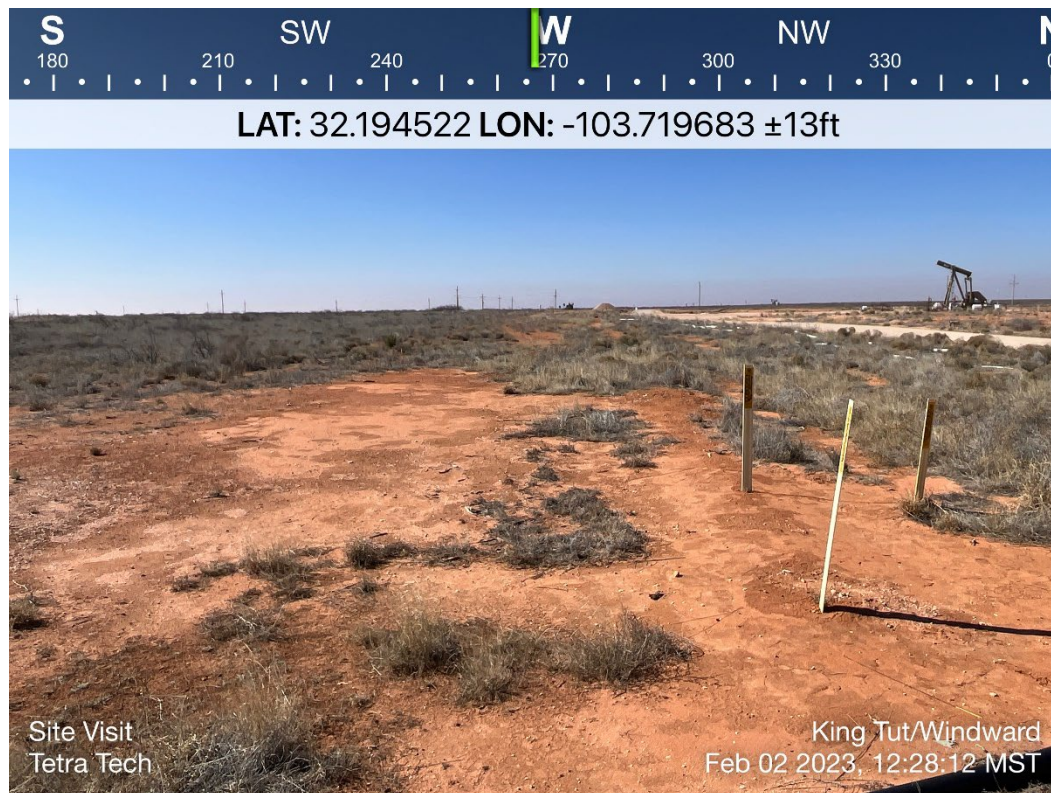


APPENDIX D

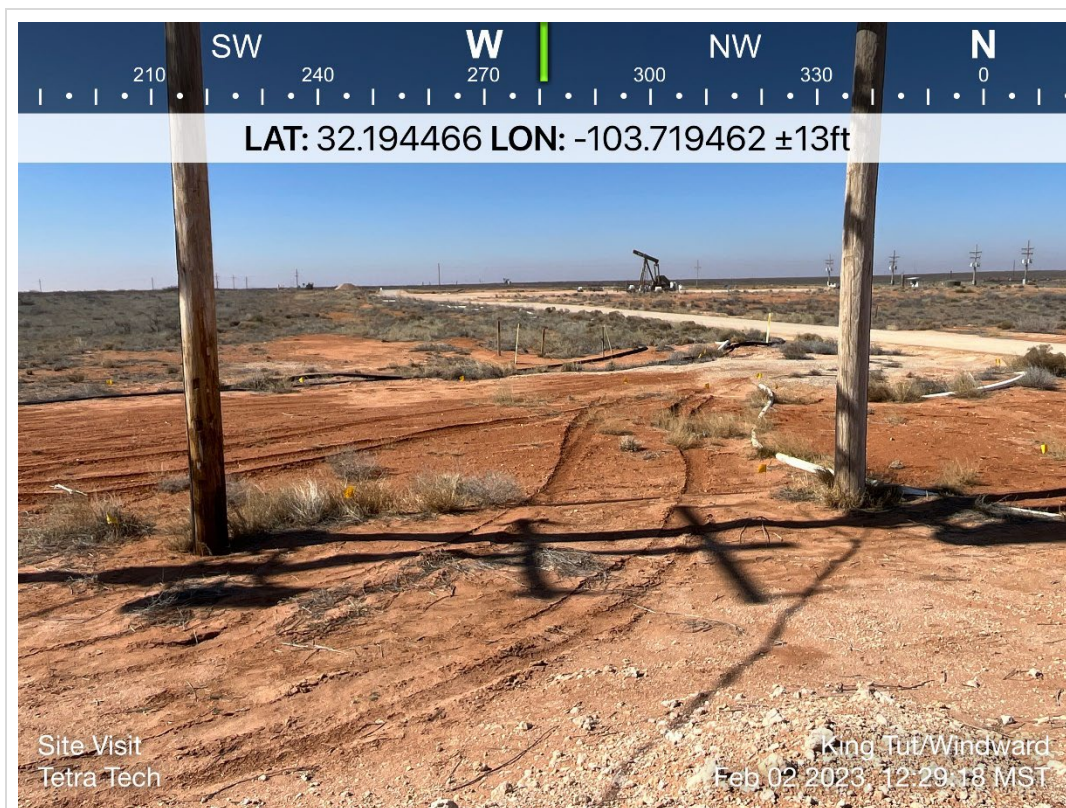
Photographic Documentation



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



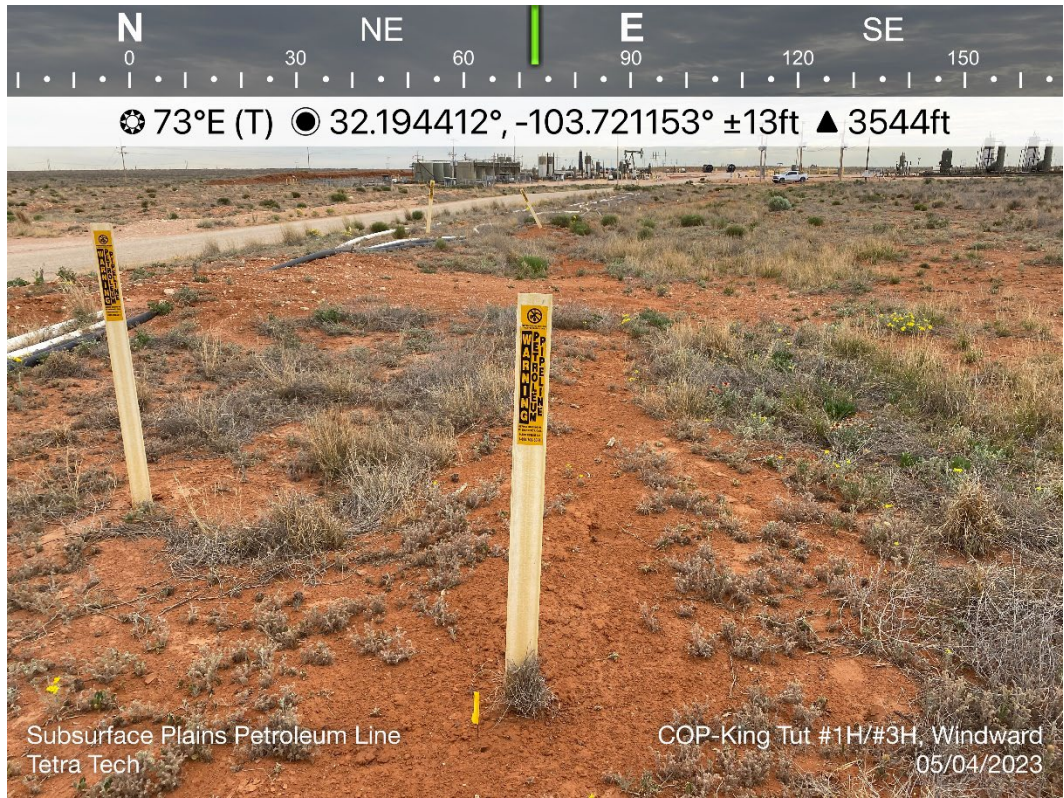
TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View W of lease road and release extent from beneath overhead electrical lines.	3
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	2/2/2023



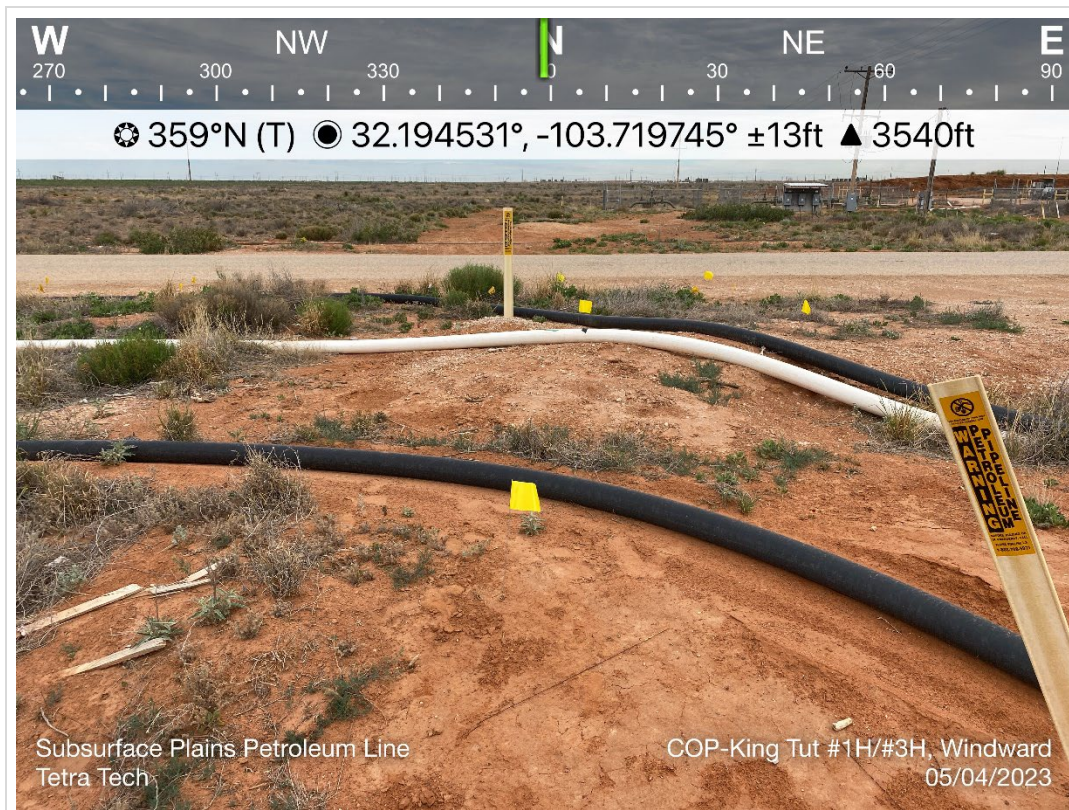
TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View W towards lease road.	4
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	2/2/2023



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



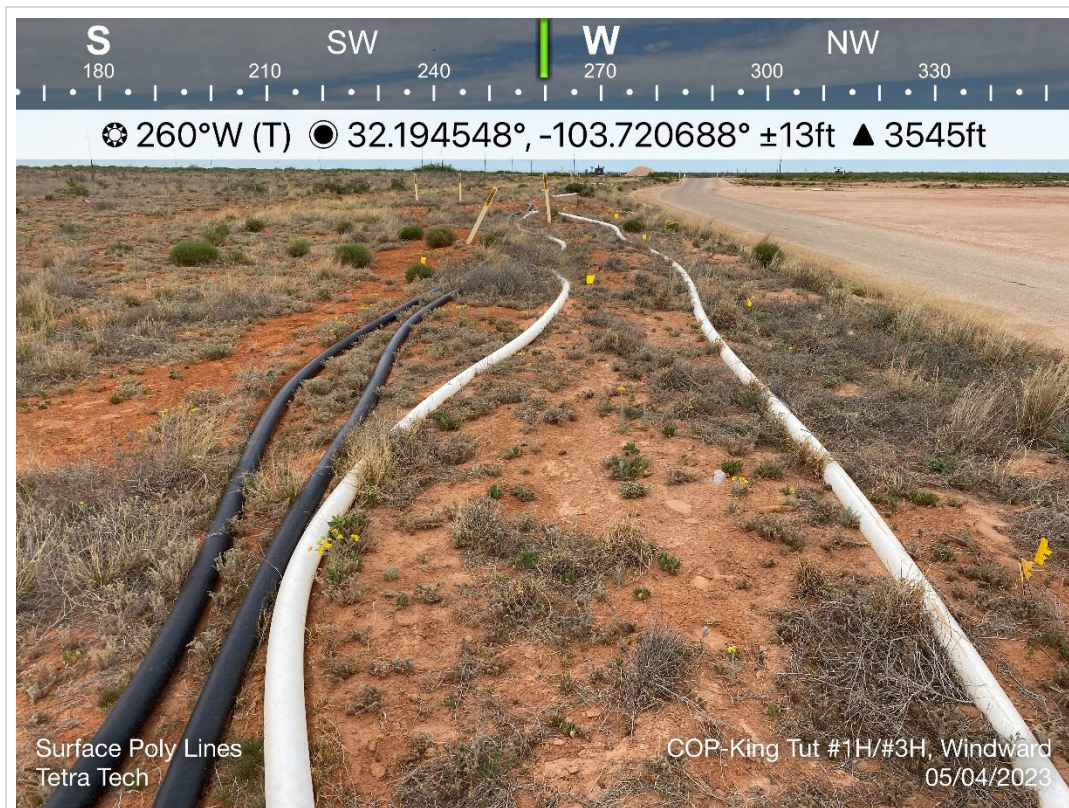
TETRA TECH, INC. PROJECT NO. 212C-MD-02999	DESCRIPTION	View northeast. View of surface lines. Vegetation present.	6
	SITE NAME	KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases	5/4/2023



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

APPENDIX E

Laboratory Analytical Data



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

September 12, 2023

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: KING TUT #001H RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 09/08/23 9:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 12 (0-1') (H234870-01)

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	09/08/2023	ND	1.98	99.2	2.00	3.78	
Toluene*	<0.050	0.050	09/08/2023	ND	2.24	112	2.00	1.35	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.30	115	2.00	1.95	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.95	116	6.00	3.18	
Total BTEX	<0.300	0.300	09/08/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/11/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	216	108	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	236	118	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 12 (1'-2') (H234870-02)

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	09/08/2023	ND	1.98	99.2	2.00	3.78		
Toluene*	<0.050	0.050	09/08/2023	ND	2.24	112	2.00	1.35		
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.30	115	2.00	1.95		
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.95	116	6.00	3.18		
Total BTEx	<0.300	0.300	09/08/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	216	108	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	236	118	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 12 (2'-3') (H234870-03)

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	09/08/2023	ND	1.98	99.2	2.00	3.78		
Toluene*	<0.050	0.050	09/08/2023	ND	2.24	112	2.00	1.35		
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.30	115	2.00	1.95		
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.95	116	6.00	3.18		
Total BTEx	<0.300	0.300	09/08/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	216	108	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	236	118	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 12 (3'-4') (H234870-04)

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	09/08/2023	ND	1.98	99.2	2.00	3.78		
Toluene*	<0.050	0.050	09/08/2023	ND	2.24	112	2.00	1.35		
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.30	115	2.00	1.95		
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.95	116	6.00	3.18		
Total BTEx	<0.300	0.300	09/08/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2480	16.0	09/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	216	108	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	236	118	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 12 (4'-5') (H234870-05)

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	09/08/2023	ND	1.98	99.2	2.00	3.78		
Toluene*	<0.050	0.050	09/08/2023	ND	2.24	112	2.00	1.35		
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.30	115	2.00	1.95		
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.95	116	6.00	3.18		
Total BTEx	<0.300	0.300	09/08/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/11/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	216	108	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	236	118	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 13 (0-1') (H234870-06)

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	09/08/2023	ND	1.98	99.2	2.00	3.78		
Toluene*	<0.050	0.050	09/08/2023	ND	2.24	112	2.00	1.35		
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.30	115	2.00	1.95		
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.95	116	6.00	3.18		
Total BTEx	<0.300	0.300	09/08/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	09/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	216	108	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	236	118	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 13 (1'-2') (H234870-07)

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	09/08/2023	ND	1.98	99.2	2.00	3.78		
Toluene*	<0.050	0.050	09/08/2023	ND	2.24	112	2.00	1.35		
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.30	115	2.00	1.95		
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.95	116	6.00	3.18		
Total BTEx	<0.300	0.300	09/08/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	216	108	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	236	118	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 13 (2'-3') (H234870-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2023	ND	1.98	99.2	2.00	3.78		
Toluene*	<0.050	0.050	09/08/2023	ND	2.24	112	2.00	1.35		
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.30	115	2.00	1.95		
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.95	116	6.00	3.18		
Total BTEx	<0.300	0.300	09/08/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	216	108	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	236	118	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 13 (3'-4') (H234870-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2023	ND	1.98	99.2	2.00	3.78		
Toluene*	<0.050	0.050	09/08/2023	ND	2.24	112	2.00	1.35		
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.30	115	2.00	1.95		
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.95	116	6.00	3.18		
Total BTEx	<0.300	0.300	09/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	2680	16.0	09/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	216	108	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	236	118	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 13 (4'-5') (H234870-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2023	ND	1.98	99.2	2.00	3.78		
Toluene*	<0.050	0.050	09/08/2023	ND	2.24	112	2.00	1.35		
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.30	115	2.00	1.95		
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.95	116	6.00	3.18		
Total BTEx	<0.300	0.300	09/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	192	16.0	09/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	216	108	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	236	118	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 14 (0-1') (H234870-11)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86		
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64		
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84		
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27		
Total BTEx	<0.300	0.300	09/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1550	16.0	09/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 14 (1'-2') (H234870-12)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86		
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64		
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84		
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27		
Total BTX	<0.300	0.300	09/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1390	16.0	09/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 14 (2'-3') (H234870-13)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86		
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64		
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84		
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27		
Total BTEx	<0.300	0.300	09/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	09/12/2023	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	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 14 (3'-4') (H234870-14)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86		
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64		
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84		
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27		
Total BTX	<0.300	0.300	09/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2640	16.0	09/12/2023	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	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 14 (4'-5') (H234870-15)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86		
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64		
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84		
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27		
Total BTEx	<0.300	0.300	09/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	09/12/2023	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	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 15 (0-1') (H234870-16)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86		
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64		
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84		
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27		
Total BTX	<0.300	0.300	09/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5600	16.0	09/12/2023	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	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 15 (1'-2') (H234870-17)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86		
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64		
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84		
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27		
Total BTEx	<0.300	0.300	09/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3000	16.0	09/12/2023	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	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 15 (2'-3') (H234870-18)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86		
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64		
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84		
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27		
Total BTX	<0.300	0.300	09/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2680	16.0	09/12/2023	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	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 15 (3'-4') (H234870-19)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86		
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64		
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84		
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27		
Total BTX	<0.300	0.300	09/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2480	16.0	09/12/2023	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	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.6 % 49.1-148

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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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 15 (4'-5') (H234870-20)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86		
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64		
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84		
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27		
Total BTEX	<0.300	0.300	09/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1680	16.0	09/12/2023	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	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 16 (0-1') (H234870-21)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86		
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64		
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84		
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27		
Total BTEx	<0.300	0.300	09/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5040	16.0	09/12/2023	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	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 16 (1'-2') (H234870-22)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86		
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64		
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84		
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27		
Total BTEx	<0.300	0.300	09/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2840	16.0	09/12/2023	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	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 101 % 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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Analytical Results For:

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

Received: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 16 (2'-3') (H234870-23)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86		
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64		
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84		
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27		
Total BTEx	<0.300	0.300	09/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3200	16.0	09/12/2023	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	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.6 % 49.1-148

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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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 16 (3'-4') (H234870-24)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86		
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64		
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84		
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27		
Total BTEx	<0.300	0.300	09/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2640	16.0	09/12/2023	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	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 16 (4'-5') (H234870-25)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86		
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64		
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84		
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27		
Total BTEx	<0.300	0.300	09/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1550	16.0	09/12/2023	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	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 17 (0-1') (H234870-26)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86		
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64		
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84		
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27		
Total BTX	<0.300	0.300	09/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	09/12/2023	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	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 17 (1'-2') (H234870-27)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86		
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64		
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84		
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27		
Total BTEx	<0.300	0.300	09/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	960	16.0	09/12/2023	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	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 17 (2'-3') (H234870-28)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86		
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64		
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84		
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27		
Total BTEx	<0.300	0.300	09/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1960	16.0	09/12/2023	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	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 17 (3'-4') (H234870-29)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2023	ND	1.90	95.0	2.00	1.86		
Toluene*	<0.050	0.050	09/09/2023	ND	1.95	97.3	2.00	1.64		
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	1.97	98.6	2.00	1.84		
Total Xylenes*	<0.150	0.150	09/09/2023	ND	5.84	97.3	6.00	1.27		
Total BTX	<0.300	0.300	09/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2280	16.0	09/12/2023	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	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 17 (4'-5') (H234870-30)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2023	ND	2.07	103	2.00	0.311		
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459		
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131		
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668		
Total BTEx	<0.300	0.300	09/09/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	09/12/2023	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	09/09/2023	ND	196	98.2	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	195	97.6	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 18 (0-1') (H234870-31)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2023	ND	2.07	103	2.00	0.311	
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668	
Total BTEx	<0.300	0.300	09/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	09/12/2023	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	09/08/2023	ND	201	101	200	4.70	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	216	108	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 76.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 18 (1'-2') (H234870-32)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2023	ND	2.07	103	2.00	0.311	
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668	
Total BTX	<0.300	0.300	09/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	09/12/2023	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	09/08/2023	ND	201	101	200	4.70	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	216	108	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 18 (2'-3') (H234870-33)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2023	ND	2.07	103	2.00	0.311	
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668	
Total BTEX	<0.300	0.300	09/09/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1840	16.0	09/11/2023	ND	400	100	400	3.92		

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	09/08/2023	ND	201	101	200	4.70	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	216	108	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 18 (3'-4') (H234870-34)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2023	ND	2.07	103	2.00	0.311	
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668	
Total BTX	<0.300	0.300	09/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2280	16.0	09/11/2023	ND	400	100	400	3.92		

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	09/08/2023	ND	201	101	200	4.70	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	216	108	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.7 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 18 (4'-5') (H234870-35)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2023	ND	2.07	103	2.00	0.311		
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459		
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131		
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668		
Total BTEx	<0.300	0.300	09/09/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1640	16.0	09/11/2023	ND	400	100	400	3.92		

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	09/08/2023	ND	201	101	200	4.70	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	216	108	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 19 (0-1') (H234870-36)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2023	ND	2.07	103	2.00	0.311	
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668	
Total BTEx	<0.300	0.300	09/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1920	16.0	09/11/2023	ND	400	100	400	3.92		

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	09/08/2023	ND	201	101	200	4.70	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	216	108	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 19 (1'-2') (H234870-37)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2023	ND	2.07	103	2.00	0.311	
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668	
Total BTX	<0.300	0.300	09/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	09/11/2023	ND	400	100	400	3.92		

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	09/08/2023	ND	201	101	200	4.70	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	216	108	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 19 (2'-3') (H234870-38)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2023	ND	2.07	103	2.00	0.311	
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668	
Total BTX	<0.300	0.300	09/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2480	16.0	09/11/2023	ND	400	100	400	3.92		

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	09/08/2023	ND	201	101	200	4.70	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	216	108	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 19 (3'-4') (H234870-39)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2023	ND	2.07	103	2.00	0.311	
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668	
Total BTX	<0.300	0.300	09/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1800	16.0	09/11/2023	ND	400	100	400	3.92		

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	09/08/2023	ND	201	101	200	4.70	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	216	108	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 19 (4'-5') (H234870-40)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2023	ND	2.07	103	2.00	0.311	
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668	
Total BTX	<0.300	0.300	09/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1570	16.0	09/11/2023	ND	400	100	400	3.92		

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	09/08/2023	ND	218	109	200	0.269	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	224	112	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 20 (0-1') (H234870-41)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2023	ND	2.07	103	2.00	0.311		
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459		
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131		
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668		
Total BTX	<0.300	0.300	09/09/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/11/2023	ND	400	100	400	3.92		

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	09/09/2023	ND	218	109	200	0.269	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	224	112	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 20 (1'-2') (H234870-42)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2023	ND	2.07	103	2.00	0.311	
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668	
Total BTX	<0.300	0.300	09/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/11/2023	ND	400	100	400	3.92		

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	09/09/2023	ND	218	109	200	0.269	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	224	112	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 98.1 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 20 (2'-3') (H234870-43)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2023	ND	2.07	103	2.00	0.311	
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459	
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131	
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668	
Total BTX	<0.300	0.300	09/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	09/11/2023	ND	400	100	400	3.92		

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	09/09/2023	ND	218	109	200	0.269	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	224	112	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 20 (3'-4') (H234870-44)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2023	ND	2.07	103	2.00	0.311		
Toluene*	<0.050	0.050	09/09/2023	ND	2.08	104	2.00	0.459		
Ethylbenzene*	<0.050	0.050	09/09/2023	ND	2.04	102	2.00	0.131		
Total Xylenes*	<0.150	0.150	09/09/2023	ND	6.17	103	6.00	0.668		
Total BTEX	<0.300	0.300	09/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	560	16.0	09/11/2023	ND	400	100	400	3.92		

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	09/09/2023	ND	218	109	200	0.269	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	224	112	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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: 09/08/2023
 Reported: 09/12/2023
 Project Name: KING TUT #001H RELEASE
 Project Number: 212C-MD-02999A
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 09/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 23 - 20 (4'-5') (H234870-45)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2023	ND	1.75	87.7	2.00	7.51		
Toluene*	<0.050	0.050	09/11/2023	ND	1.81	90.4	2.00	6.80		
Ethylbenzene*	<0.050	0.050	09/11/2023	ND	1.79	89.7	2.00	6.91		
Total Xylenes*	<0.150	0.150	09/11/2023	ND	5.46	91.0	6.00	6.42		
Total BTX	<0.300	0.300	09/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	09/11/2023	ND	400	100	400	3.92	

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	09/11/2023	ND	195	97.3	200	5.54	
DRO >C10-C28*	<10.0	10.0	09/11/2023	ND	187	93.4	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	09/11/2023	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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

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		State: TX Zip:			
Phone #: (512)565-0190 Fax #:		Attn: Sam Abbott			
Project #: 212C-MD-02999A Project Owner: ConocoPhillips		City: Address: EMAIL			
Project Name: King Tut #001B Release		State: Zip:			
Project Location: Lea County, New Mexico		Phone #:			
Sample Name: Colton Bickerstaff		Fax #:			
FOR LAB USE ONLY		PRESERV.		SAMPLING	
Lab I.D.		MATRIX			
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					
1 AH-23-12 (0-1')		G 1		X X X X	
2 AH-23-12 (1'-2')		G 1		X X X X	
3 AH-23-12 (2'-3')		G 1		X X X X	
4 AH-23-12 (3'-4')		G 1		X X X X	
5 AH-23-12 (4'-5')		G 1		X X X X	
6 AH-23-13 (0-1')		G 1		X X X X	
7 AH-23-13 (1'-2')		G 1		X X X X	
8 AH-23-13 (2'-3')		G 1		X X X X	
9 AH-23-13 (3'-4')		G 1		X X X X	
10 AH-23-13 (4'-5')		G 1		X X X X	
9/7/2023					
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Relinquished By: Colton Bickerstaff		Date: 9/8/23		Received By: [Signature]	
Relinquished By:		Time: 9:25		Received By:	
Date:		Time:			
Observed Temp. °C		Corrected Temp. °C		Sample Condition	
0.8				Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	
Delivered By (Circle One)		Corrected Temp. °C		CHECKED BY: (Initials)	
Sampler - UPS - B...				V...	
Thermometer ID: #140		Correction Factor: -0.06		Thermometer ID: #140	
9/8/23				9/8/23	
Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	
Observed Temp. °C		Corrected Temp. °C		Observed Temp. °C	
REMARKS:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		All Results are emailed. Please provide Email address: Sam.Abbott@tetratech.com			



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tetra Tech		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Sam Abbott		Company: Tetra Tech					
Address: 8911 Capital o Texas Hwy, Suite 2310		Attn: Sam Abbott					
City: Austin State: TX Zip:		Address: EMAIL					
Phone #: (512)565-0190 Fax #:		City:					
Project #: 212C-MD-02999A Project Owner: ConocoPhillips		State: Zip:					
Project Name: King Tut #001H Release		Phone #:					
Project Location: Lea County, New Mexico		Fax #:					
Sampler Name: Colton Bickerstaff		PRESERV.		SAMPLING			
Lab I.D.		Sample I.D.					
H23487D		(G)RAB OR (C)OMP.					
11 AH-23-14 (0-1')		G 1					
12 AH-23-14 (1-2')		G 1					
13 AH-23-14 (2-3')		G 1					
14 AH-23-14 (3-4')		G 1					
15 AH-23-14 (4-5')		G 1					
16 AH-23-15 (0-1')		G 1					
17 AH-23-15 (1-2')		G 1					
18 AH-23-15 (2-3')		G 1					
19 AH-23-15 (3-4')		G 1					
20 AH-23-15 (4-5')		G 1					
Matrix: GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:		DATE		TIME			
TPH 8015M		BTX 8021B		Chloride SM4500CI-B			
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:					
All Results are emailed. Please provide Email address: Sam.Abbott@tetratech.com							
Relinquished By: Colton Bickerstaff		Date: 9/8/23		Received By:		REMARKS:	
Time: 0925		Date: 9/8/23		Time:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp.: C Corrected Temp.: C		Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) 920	
Thermometer ID: #140		Correction Factor: 0.08		Thermometer ID: #140		Correction Factor: 0.08	
Thermometer ID: #140		Correction Factor: 0.08		Thermometer ID: #140		Correction Factor: 0.08	

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



ANALYSIS REQUEST

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO										ANALYSIS REQUEST														
Company Name: Tetra Tech										P.O. #:														
Project Manager: Sam Abbott										Company: Tetra Tech														
Address: 8911 Capital o Texas Hwy, Suite 2310										Attn: Sam Abbott														
City: Austin State: TX Zip:										Address: EMAIL														
Phone #: (512)565-0190 Fax #:										City: State: Zip:														
Project #: 212C-MD-02989A Project Owner: ConocoPhillips										State: Zip:														
Project Name: King Tut #001H Release										Phone #:														
Project Location: Lea County, New Mexico										Fax #:														
Sampler Name: Colton Bickerstaff																								
FOR LAB USE ONLY Lab I.D.																								
Sample I.D. <i>H234870</i>										(G)RAB OR (C)OMP.														
										# CONTAINERS														
										GROUNDWATER					PRESERV.					SAMPLING				
										WASTEWATER														
										SOIL														
										OIL														
										SLUDGE														
										OTHER :														
										ACID/BASE:														
										ICE / COOL														
										DATE														
										TIME														
										TPH 8015M														
										BTEX 8021B														
										Chloride SM4500Cl-B														
31	AH-23-18 (0-1)	G	I	X						9/7/2023			X	X	X									
32	AH-23-18 (1-2)	G	I	X						9/7/2023			X	X	X									
33	AH-23-18 (2-3)	G	I	X						9/7/2023			X	X	X									
34	AH-23-18 (3-4)	G	I	X						9/7/2023			X	X	X									
35	AH-23-18 (4-5)	G	I	X						9/7/2023			X	X	X									
36	AH-23-19 (0-1)	G	I	X						9/7/2023			X	X	X									
37	AH-23-19 (1-2)	G	I	X						9/7/2023			X	X	X									
38	AH-23-19 (2-3)	G	I	X						9/7/2023			X	X	X									
39	AH-23-19 (3-4)	G	I	X						9/7/2023			X	X	X									
40	AH-23-19 (4-5)	G	I	X						9/7/2023			X	X	X									

PLEASE NOTE: Liability and Coverage: Contractor's liability and coverage extends only for any claim arising within stated in contract or that shall be limited to the amount paid by me under the policy. All claims including those for negligence and any other causes whatsoever shall be deemed waived unless made in writing and received by Contract within 30 days after completion of work. If no written notice is received within 30 days after completion of work, all claims are hereby waived. This limitation shall apply regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Reinquinished By: Colton Bickerstaff				Date: 9/8/23	Received By: [Signature]	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Time: 0925				Date:	[Signature]	All Results are emailed. Please provide Email address: Sam.Abbott@tetratech.com	
Time:				Date:		REMARKS:	

Delivered By: (Circle One) Sampler - UPS - Blue - Other:	Observed Temp. °C Corrected Temp. °C <i>0.8</i>	Sample Condition Cool <input checked="" type="checkbox"/> Warm <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Damaged <input type="checkbox"/>	CHECKED BY: (Initials) <i>V.C.</i>	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush: VAS, Standard TAT <input type="checkbox"/>	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	Thermometer ID <i>#140</i>	Correction Factor <i>-0.00</i>	Yr. <i>9/8/23</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Corrected Temp. °C
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ch

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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 290141

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 290141
	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