



December 8, 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# nAB1905046526**

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 32.19467°, -103.71971°, 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 February 8, 2019. The release consisted of 10 barrels (bbls) of produced water, of which 5 bbls were reported recovered. The NMOCD received the initial C-141 on February 11, 2019 and subsequently assigned the release the Incident ID nAB1905046526. The initial C-141 form is included in Appendix A.

## SITE CHARACTERIZATION

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

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.

Tetra Tech

901 West Wall St., Suite 100, Midland, TX 79701

Tel 432.682.4559

Fax 432.682.3946

www.tetrattech.com

**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 2019 DEFERRAL REQUEST**

On February 20, 2019, Tetra Tech conducted assessment soil sampling at the Site on behalf of Concho. Four (4) auger holes (AH-1 through AH-4) were installed within the release extent to depths ranging from 7-10 feet bgs. Additionally, five (5) horizontal delineation samples (Horizontal North-1, Horizontal West-1, Horizontal South-1, Horizontal South-2, and Horizontal East-1) were collected along the perimeter of the release footprint. The release extent and sampling locations are presented in Figure 3.

The analytical results from the February 2019 soil sampling activities are summarized in Table 1. Chloride concentrations exceeded the reclamation limit of 600 mg/kg to a depth of 4 feet bgs at locations AH-1 and AH-2 and to a depth of 2 feet bgs at locations AH-3 and AH-4. There were analytical results from subsurface soil intervals (greater than 4 feet bgs) which exceeded the chloride RRAL of 20,000 mg/kg. There were no analytical results which exceeded the Site RRALs or reclamation limits for TPH, BTEX, or benzene. The analytical results associated with the horizontal delineation samples were below the Site RRALs and reclamation limits for all constituents.

Based on the analytical results of the February 2019 assessment sampling, a Closure Report / Deferral Request dated March 27, 2018 was submitted to the Bureau of Land Management (BLM) and to the NMOCD. In this report, Concho requested closure of the release and deferral of restoration and reclamation activities at the Site due to safety issues posed by numerous surface lines, buried lines, and electric lines in the release area.

The BLM and NMOCD rejected the closure request and deferral request for reclamation activities via email on August 15, 2019. A copy of regulatory correspondence is included as Appendix C.

**2023 ADDITIONAL ASSESSMENT ACTIVITIES**

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

Tetra Tech prepared deferral requests for the other three incidents in May 2023 on behalf of ConocoPhillips. The NMOCD rejected the deferral requests with the following comment:

- *“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.”*

Tetra Tech conducted additional assessment sampling on behalf of ConocoPhillips within the combined release extents to evaluate current soil concentration levels and guide the proposed remediation. 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.

Remediation Work Plan  
December 8, 2023

ConocoPhillips

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-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 2019)
- Figure 4 – Approximate Release Extent and Additional Assessment (Tetra Tech 2023)
- Figure 5 – Proposed Remediation (Tetra Tech 2023)

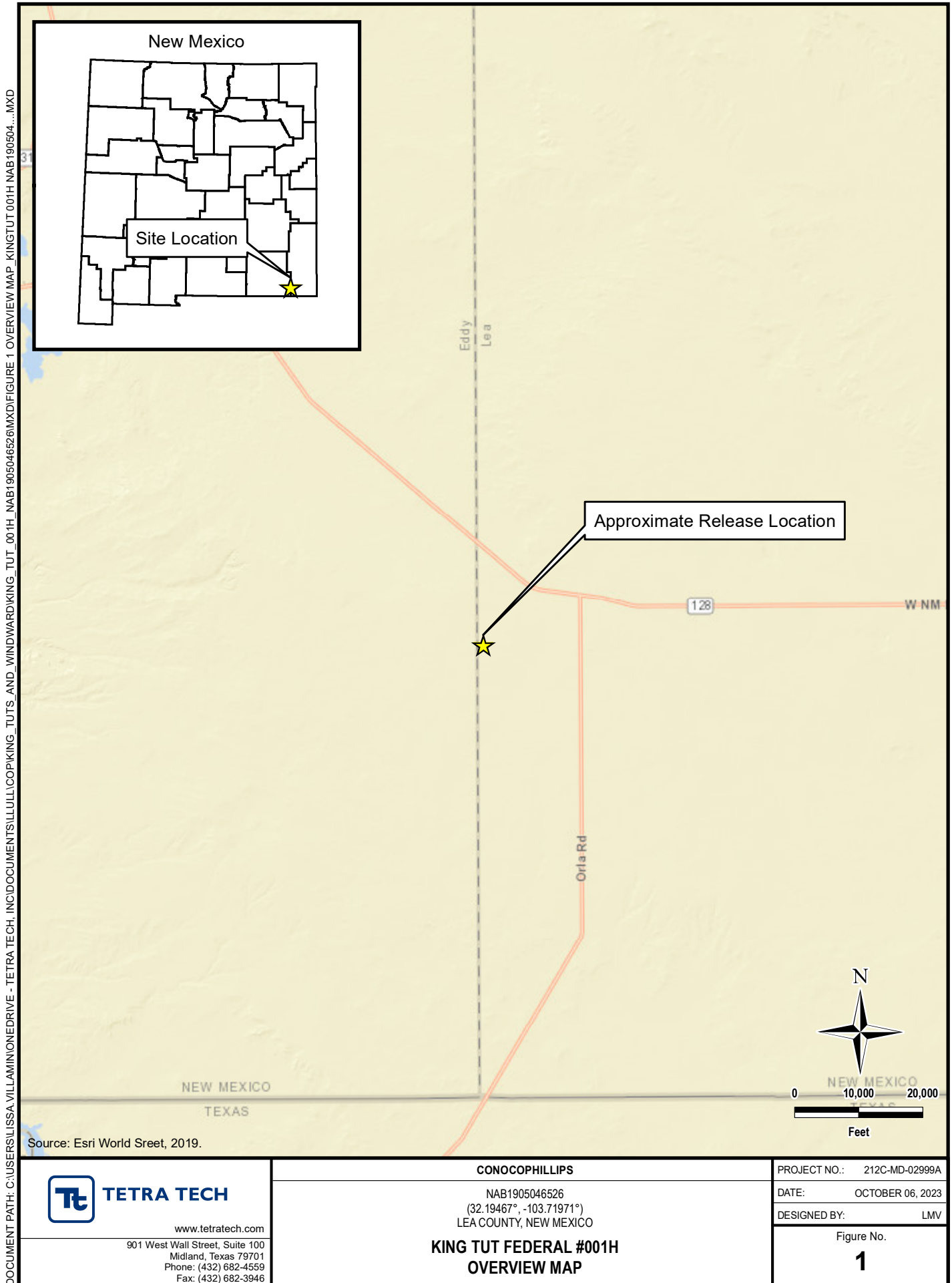
### Tables:

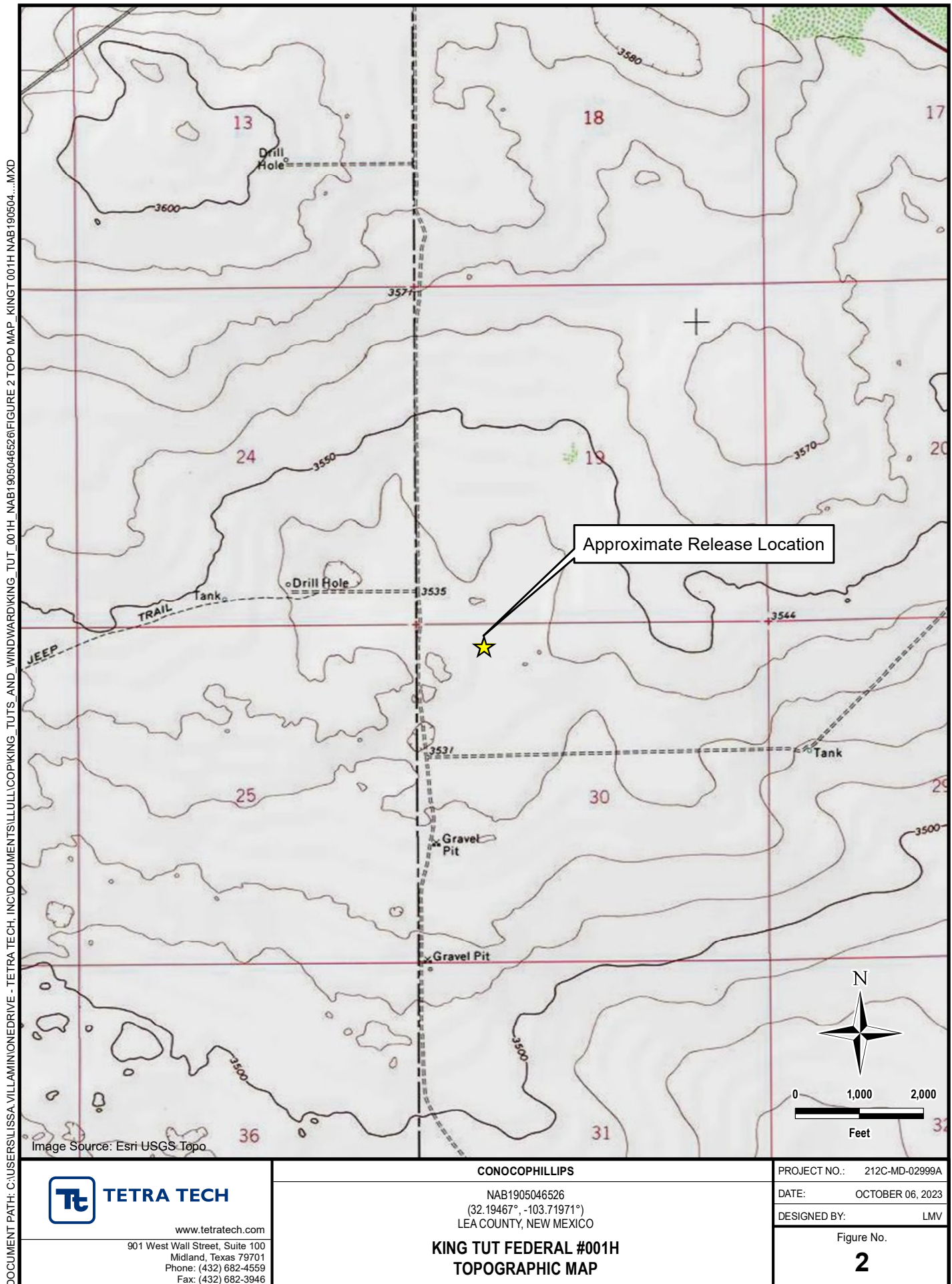
- Table 1 – Summary of Analytical Results – 2019 Initial Soil Assessment
- Table 2 – Summary of Analytical Results – 2023 Vertical Delineation Soil Assessment

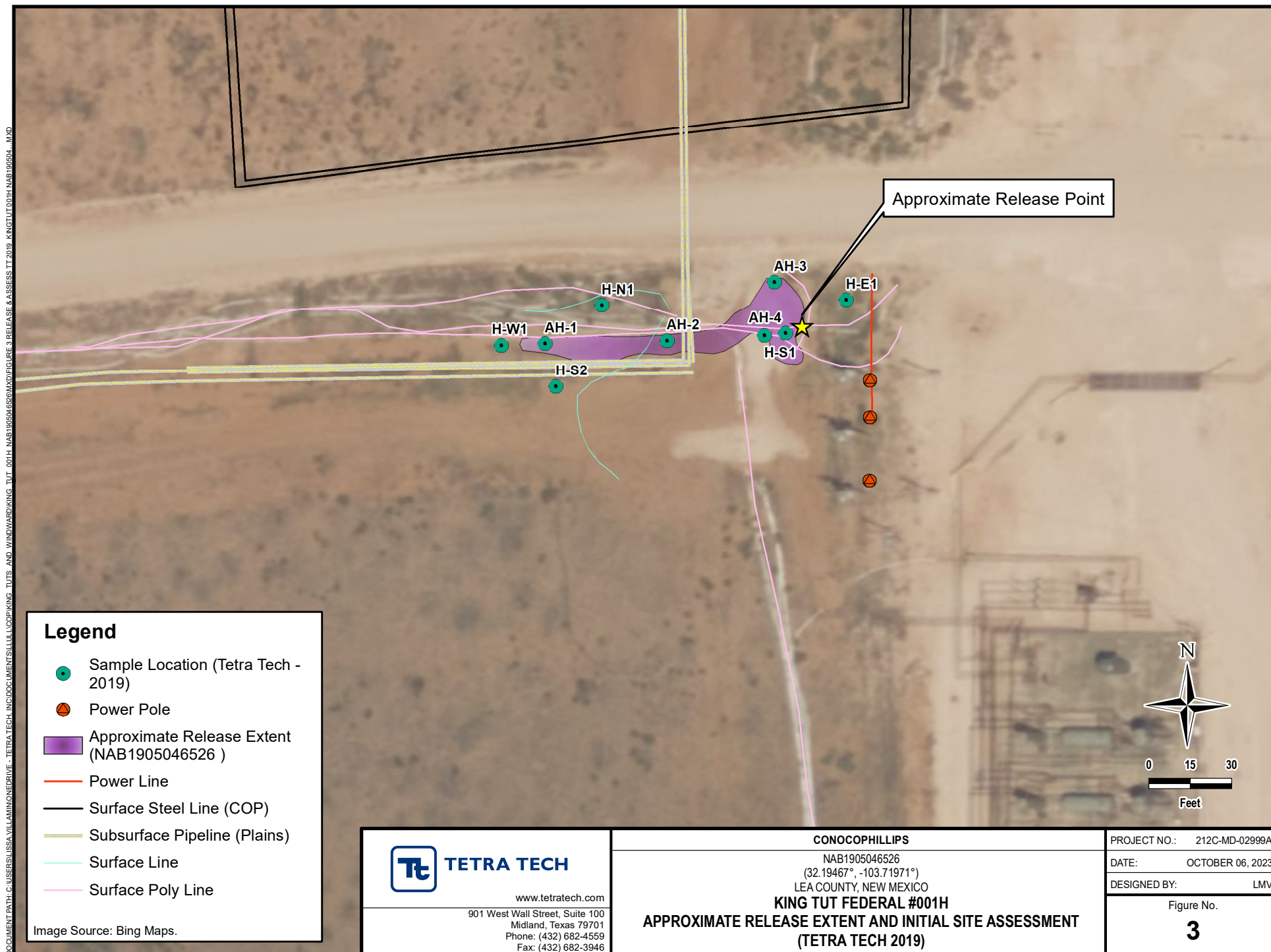
### Appendices:

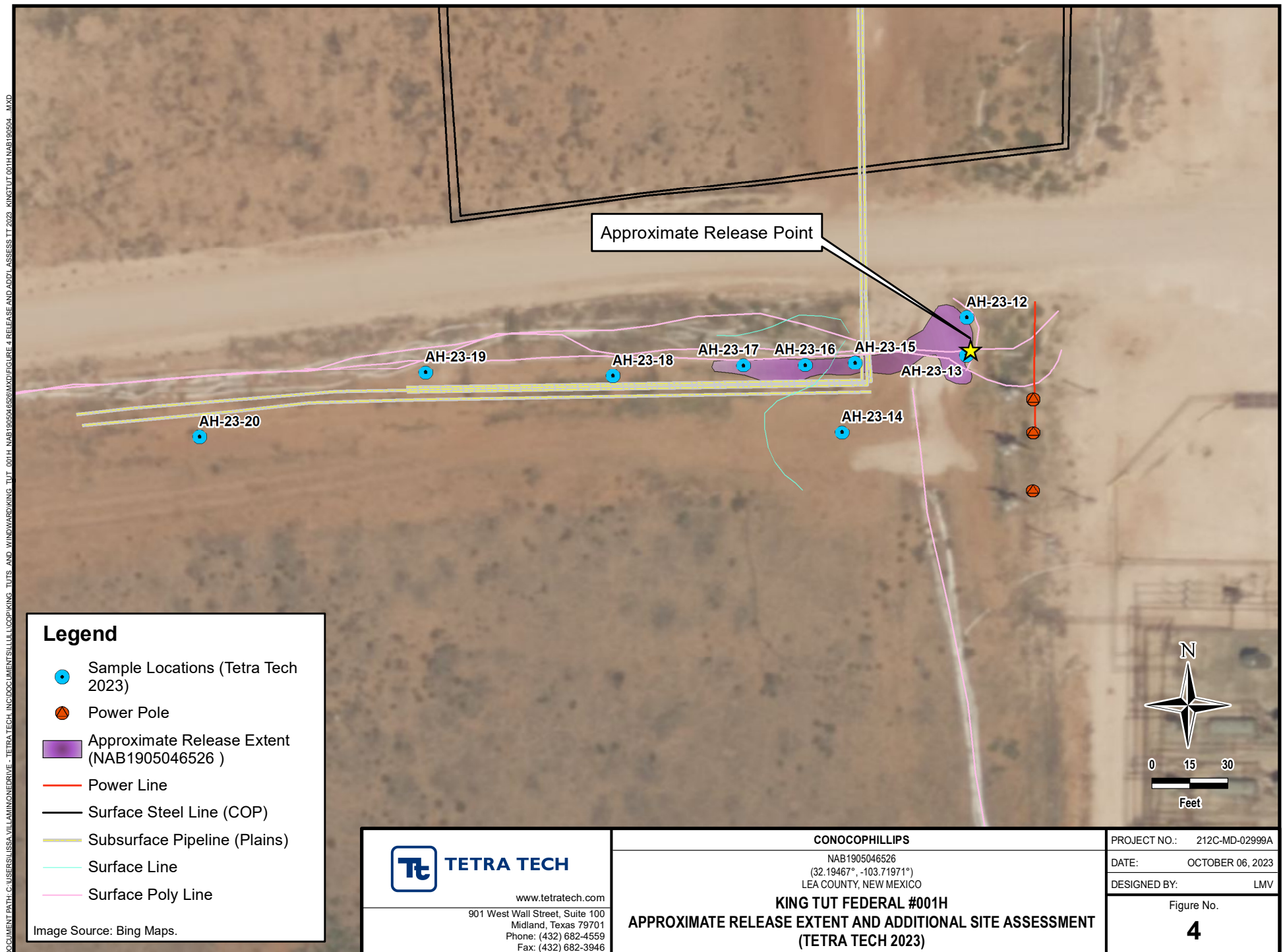
- Appendix A – C-141 Forms
- Appendix B – Site Characterization Data
- Appendix C – Regulatory Correspondence
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Analytical Data

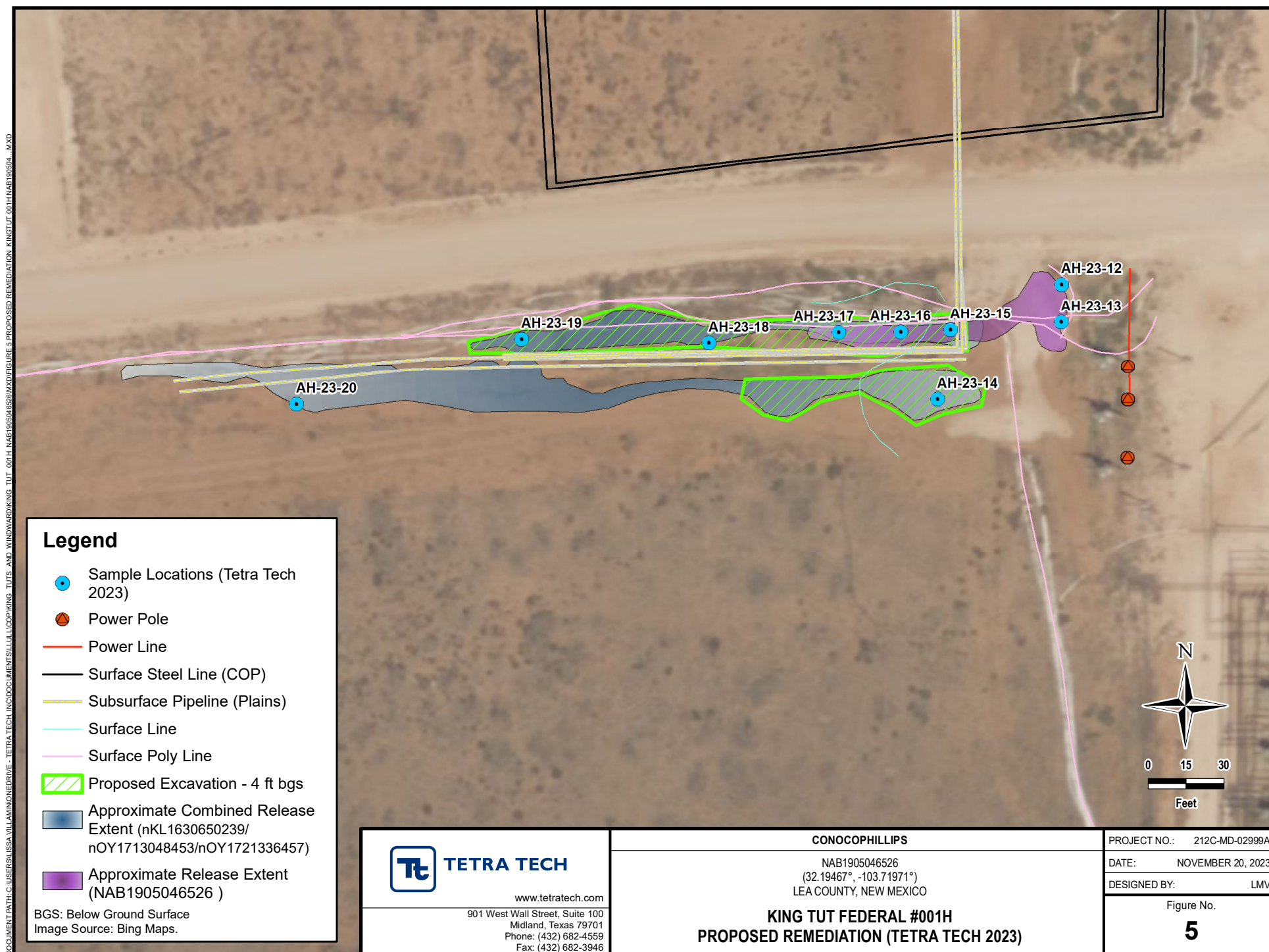
## **FIGURES**











## **TABLES**

TABLE 1  
SUMMARY OF ANALYTICAL RESULTS  
2019 INITIAL SOIL ASSESSMENT - nAB1905046526  
CONOCOPHILLIPS  
KING TUT FEDERAL #001H RELEASE  
LEA COUNTY, NEW MEXICO

| Sample ID          | Sample Date | Sample Depth | Chloride <sup>1</sup> |   | BTEX <sup>2</sup> |   |          |   |              |   |             |   |          |   | TPH <sup>3</sup> |   |            |   |       |   |       |   |       |   |           |  |
|--------------------|-------------|--------------|-----------------------|---|-------------------|---|----------|---|--------------|---|-------------|---|----------|---|------------------|---|------------|---|-------|---|-------|---|-------|---|-----------|--|
|                    |             |              |                       |   | Benzene           |   | Toluene  |   | Ethylbenzene |   | m,p-Xylenes |   | o-Xylene |   | Total Xylenes    |   | Total BTEX |   | GRO   |   | DRO   |   | MRO   |   | Total TPH |  |
|                    |             | ft. bgs      | mg/kg                 | Q | mg/kg             | Q | mg/kg    | Q | mg/kg        | Q | mg/kg       | Q | mg/kg    | Q | mg/kg            | Q | mg/kg      | Q | mg/kg | Q | mg/kg | Q | mg/kg | Q |           |  |
| AH-1               | 2/20/2019   | 0-1          | 8,060                 |   | <0.00200          |   | <0.00200 |   | <0.00200     |   | <0.00400    |   | <0.00200 |   | <0.00200         |   | <0.00200   |   | <15.0 |   | <15.0 |   | <15.0 |   | <15.0     |  |
|                    |             | 1-1.5        | 5,990                 |   | <0.00201          |   | <0.00201 |   | <0.00201     |   | <0.00401    |   | <0.00201 |   | <0.00201         |   | <0.00201   |   | <15.0 |   | <15.0 |   | <15.0 |   | <15.0     |  |
|                    |             | 2-2.5        | 5,930                 |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
|                    |             | 3-3.5        | 3,140                 |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
|                    |             | 4-4.5        | 1,580                 |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
|                    |             | 5-5.5        | 1,610                 |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
|                    |             | 6-6.5        | 1,740                 |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
|                    |             | 7-7.5        | 3,550                 |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
|                    |             | 8-8.5        | 4,160                 |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
|                    |             | 9-9.5        | 1,130                 |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
| 10                 | 1,350       |              | NA                    |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   |           |  |
| AH-2               | 2/20/2019   | 0-1          | 2,860                 |   | <0.00199          |   | <0.00199 |   | <0.00199     |   | <0.00398    |   | <0.00199 |   | <0.00199         |   | <15.0      |   | <15.0 |   | <15.0 |   | <15.0 |   | <15.0     |  |
|                    |             | 1-1.5        | 790                   |   | <0.00200          |   | <0.00200 |   | <0.00200     |   | <0.00400    |   | <0.00200 |   | <0.00200         |   | <0.00200   |   | <15.0 |   | <15.0 |   | <15.0 |   | <15.0     |  |
|                    |             | 2-2.5        | 1,780                 |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
|                    |             | 3-3.5        | 2,780                 |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
|                    |             | 4-4.5        | 4,170                 |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
|                    |             | 5-5.5        | 4,570                 |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
|                    |             | 6-6.5        | 1,990                 |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
|                    |             | 7-7.5        | 1,690                 |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
|                    |             | 8-8.5        | 1,410                 |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
|                    |             | 9-9.5        | 783                   |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
| 10                 | 612         |              | NA                    |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   |           |  |
| AH-3               | 2/20/2019   | 0-1          | 13,500                |   | <0.00200          |   | <0.00200 |   | <0.00200     |   | <0.00401    |   | <0.00200 |   | <0.00200         |   | <0.00200   |   | <15.0 |   | <15.0 |   | <15.0 |   | <15.0     |  |
|                    |             | 1-1.5        | 15,100                |   | <0.00202          |   | <0.00202 |   | <0.00202     |   | <0.00403    |   | <0.00202 |   | <0.00202         |   | <0.00202   |   | <14.9 |   | <14.9 |   | <14.9 |   | <14.9     |  |
|                    |             | 2-2.5        | 2,820                 |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
|                    |             | 3-3.5        | 593                   |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
|                    |             | 4-4.5        | 588                   |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
|                    |             | 5-5.5        | 413                   |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
|                    |             | 6-6.5        | 399                   |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
|                    |             | 7-7.5        | 3,630                 |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
|                    |             | 8-8.5        | 6,400                 |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
|                    |             | 9-9.5        | 8,440                 |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
| 10                 | 7,730       |              | NA                    |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   |           |  |
| AH-4               | 2/20/2019   | 0-1          | 8,600                 |   | <0.00200          |   | <0.00200 |   | <0.00200     |   | <0.00399    |   | <0.00200 |   | <0.00200         |   | <0.00200   |   | <14.9 |   | <14.9 |   | <14.9 |   | <14.9     |  |
|                    |             | 1-1.5        | 1,680                 |   | <0.00199          |   | <0.00199 |   | <0.00199     |   | <0.00398    |   | <0.00199 |   | <0.00199         |   | <0.00199   |   | <15.0 |   | <15.0 |   | <15.0 |   | <15.0     |  |
|                    |             | 2-2.5        | 284                   |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
|                    |             | 3-3.5        | 52.3                  |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
|                    |             | 4-4.5        | 14.5                  |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
|                    |             | 5-5.5        | 22.4                  |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
|                    |             | 6-6.5        | 99.6                  |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
|                    |             | 7-7.5        | 206                   |   | NA                |   | NA       |   | NA           |   | NA          |   | NA       |   | NA               |   | NA         |   | NA    |   | NA    |   | NA    |   | NA        |  |
| Horizontal North 1 | 2/20/2019   | -            | 22.2                  |   | <0.00200          |   | <0.00200 |   | <0.00200     |   | <0.00399    |   | <0.00200 |   | <0.00200         |   | <0.00200   |   | <15.0 |   | <15.0 |   | <15.0 |   | <15.0     |  |
| Horizontal West 1  | 2/20/2019   | -            | 25.6                  |   | <0.00201          |   | <0.00201 |   | <0.00201     |   | <0.00402    |   | <0.00201 |   | <0.00201         |   | <0.00201   |   | <14.9 |   | <14.9 |   | <14.9 |   | <14.9     |  |
| Horizontal South 1 | 2/20/2019   | -            | 8.43                  |   | <0.00200          |   | <0.00200 |   | <0.00200     |   | <0.00400    |   | <0.00200 |   | <0.00200         |   | <0.00200   |   | <15.0 |   | <15.0 |   | <15.0 |   | <15.0     |  |
| Horizontal South 2 | 2/20/2019   | -            | 8.03                  |   | <0.00200          |   | 0.02060  |   | 0.01290      |   | 0.0275      |   | 0.0154   |   | 0.0429           |   | 0.0764     |   | <15.0 |   | <15.0 |   | <15.0 |   | <15.0     |  |
| Horizontal East 1  | 2/20/2019   | -            | 254                   |   | <0.00200          |   | 0.00251  |   | <0.00200     |   | <0.00399    |   | <0.00200 |   | <0.00200         |   | 0.00251    |   | <15.0 |   | 17.6  |   | <15.0 |   | 17.6      |  |

NOTES:

- ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

MRO Motor Oil range organics

NS Sample not analyzed for parameter

1 EPA Method 300.0

2 EPA Method 8021B

3 Method SW8015 Mod
- Bold and italicized values indicate exceedance of proposed Remediation RRALs and/or Reclamation Requirements.***

QUALIFIERS:

TABLE 2  
SUMMARY OF ANALYTICAL RESULTS  
2023 ADDITIONAL SOIL ASSESSMENT- nAB1905046526  
CONOCOPHILLIPS  
KING TUT #001 RELEASE  
LEA COUNTY, NM

| Sample ID | Sample Date | Sample Depth | Chloride |   | BTEX <sup>2</sup> |   |         |   |              |   |               |   |            |   | TPH <sup>3</sup>                 |   |                                     |   |                                     |   |                                |  |
|-----------|-------------|--------------|----------|---|-------------------|---|---------|---|--------------|---|---------------|---|------------|---|----------------------------------|---|-------------------------------------|---|-------------------------------------|---|--------------------------------|--|
|           |             |              |          |   | Benzene           |   | Toluene |   | Ethylbenzene |   | Total Xylenes |   | Total BTEX |   | GRO                              |   | DRO                                 |   | EXT DRO                             |   | Total TPH<br>(GRO+DRO+EXT DRO) |  |
|           |             |              |          |   |                   |   |         |   |              |   |               |   |            |   | C <sub>6</sub> - C <sub>10</sub> |   | > C <sub>10</sub> - C <sub>28</sub> |   | > C <sub>28</sub> - C <sub>36</sub> |   |                                |  |
|           |             | ft. bgs      | 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 2  
SUMMARY OF ANALYTICAL RESULTS  
2023 ADDITIONAL SOIL ASSESSMENT- nAB1905046526  
CONOCOPHILLIPS  
KING TUT #001 RELEASE  
LEA COUNTY, NM

| Sample ID | Sample Date | Sample Depth | Chloride |  | BTEX <sup>2</sup> |       |         |       |              |       |               |       |            |       | TPH <sup>3</sup>                 |       |                                     |       |                                     |       |                                |       |
|-----------|-------------|--------------|----------|--|-------------------|-------|---------|-------|--------------|-------|---------------|-------|------------|-------|----------------------------------|-------|-------------------------------------|-------|-------------------------------------|-------|--------------------------------|-------|
|           |             |              |          |  | Benzene           |       | Toluene |       | Ethylbenzene |       | Total Xylenes |       | Total BTEX |       | GRO                              |       | DRO                                 |       | EXT DRO                             |       | Total TPH<br>(GRO+DRO+EXT DRO) |       |
|           |             |              |          |  |                   |       |         |       |              |       |               |       |            |       | C <sub>6</sub> - C <sub>10</sub> |       | > C <sub>10</sub> - C <sub>28</sub> |       | > C <sub>28</sub> - C <sub>36</sub> |       |                                |       |
|           |             |              |          |  | ft. bgs           | 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 Department  
  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

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

|                |  |
|----------------|--|
| Incident ID    |  |
| District RP    |  |
| Facility ID    |  |
| Application ID |  |

Release Notification

Responsible Party

|                         |                              |
|-------------------------|------------------------------|
| Responsible Party       | OGRID                        |
| Contact Name            | Contact Telephone            |
| Contact email           | Incident # (assigned by OCD) |
| Contact mailing address |                              |

Location of Release Source

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
*(NAD 83 in decimal degrees to 5 decimal places)*

|                         |                                |
|-------------------------|--------------------------------|
| Site Name               | Site Type                      |
| Date Release Discovered | API# (if applicable) <i>AB</i> |

|             |         |          |       |        |
|-------------|---------|----------|-------|--------|
| Unit Letter | Section | Township | Range | County |
|             |         |          |       |        |

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

Nature and Volume of Release

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

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

Cause of Release

## Oil Conservation Division

|                |  |
|----------------|--|
| Incident ID    |  |
| District RP    |  |
| Facility ID    |  |
| Application ID |  |

|  |  |
|--|--|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br><input type="checkbox"/> Yes <input type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release? |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?               |  |

**Initial Response**

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

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

## \*\*\*\*\* LIQUID SPILLS - VOLUME CALCULATIONS \*\*\*\*\*

Location of spill: COG - King Tut Federal #001H

Date of Spill: 8-Feb-2019

If the leak/spill is associated with production equipment, i.e. - wellhead, stuffing box, flowline, tank battery, production vessel, transfer pump, or storage tank place an "X" here: ☒

## Input Data:

If spill volumes from measurement, i.e. metering, tank volumes, etc. are known enter the volumes here: OIL: 0.0 BBL WATER: 0.0 BBL

If "known" spill volumes are given, input data for the following "Area Calculations" is optional. The above will override the calculated volumes.

## Total Area Calculations

## Standing Liquid Calculations

| Total Surface Area |       | wet soil |      |         |      |    | Standing Liquid Area |       | oil (%) |              |   |         |    |
|--------------------|-------|----------|------|---------|------|----|----------------------|-------|---------|--------------|---|---------|----|
|                    | width | length   |      | depth   |      |    |                      | width | length  | liquid depth |   | oil (%) |    |
| Rectangle Area #1  | 30 ft | 40 ft    | X    | 2.00 in |      | 0% | Rectangle Area #1    | 0 ft  | X       | 0 ft         | X | 0 in    | 0% |
| Rectangle Area #2  | 0 ft  | X        | 0 ft | X       | 0 in | 0% | Rectangle Area #2    | 0 ft  | X       | 0 ft         | X | 0 in    | 0% |
| Rectangle Area #3  | 0 ft  | X        | 0 ft | X       | 0 in | 0% | Rectangle Area #3    | 0 ft  | X       | 0 ft         | X | 0 in    | 0% |
| Rectangle Area #4  | 0 ft  | X        | 0 ft | X       | 0 in | 0% | Rectangle Area #4    | 0 ft  | X       | 0 ft         | X | 0 in    | 0% |
| Rectangle Area #5  | 0 ft  | X        | 0 ft | X       | 0 in | 0% | Rectangle Area #5    | 0 ft  | X       | 0 ft         | X | 0 in    | 0% |
| Rectangle Area #6  | 0 ft  | X        | 0 ft | X       | 0 in | 0% | Rectangle Area #6    | 0 ft  | X       | 0 ft         | X | 0 in    | 0% |
| Rectangle Area #7  | 0 ft  | X        | 0 ft | X       | 0 in | 0% | Rectangle Area #7    | 0 ft  | X       | 0 ft         | X | 0 in    | 0% |
| Rectangle Area #8  | 0 ft  | X        | 0 ft | X       | 0 in | 0% | Rectangle Area #8    | 0 ft  | X       | 0 ft         | X | 0 in    | 0% |

okay

## production system leak - DAILY PRODUCTION DATA REQUIRED

Average Daily Production: Oil 0 BBL Water 0 BBL 0 Gas (MCFD)

Total Hydrocarbon Content in gas: 0% (percentage)

Did leak occur before the separator?: ☒ YES ☒ N/A (place an "X")

H2S Content in Produced Gas: 0 PPM

H2S Content in Tank Vapors: 0 PPM

Amount of Free Liquid Recovered: 0 BBL okay

Percentage of Oil in Free Liquid Recovered: 0% (percentage)

Liquid holding factor \*: 0.14 gal per gal

Use the following when the spill wets the grains of the soil.

\* Sand = 0.08 gallon (gal.) liquid per gal. volume of soil.

\* Gravelly (caliche) loam = 0.14 gal. liquid per gal. volume of soil.

\* Sandy clay loam soil = 0.14 gal liquid per gal. volume of soil.

\* Clay loam = 0.16 gal. liquid per gal. volume of soil.

Use the following when the liquid completely fills the pore space of the soil:

Occurs when the spill soaked soil is contained by barriers, natural (or not).

\* Clay loam = 0.20 gal. liquid per gal. volume of soil.

\* Gravelly (caliche) loam = 0.25 gal. liquid per gal. volume of soil.

\* Sandy loam = 0.5 gal. liquid per gal. volume of soil.

Total Solid/Liquid Volume: 1,200 sq. ft.

200 cu. ft.

cu. ft.

Total Free Liquid Volume:

sq. ft.

cu. ft.

cu. ft.

## Estimated Volumes Spilled

Liquid in Soil: 5.0 BBL H2O 0.0 BBL OIL  
Free Liquid: 0.0 BBL 0.0 BBL  
Totals: 5.0 BBL 0.0 BBL

Total Liquid Spill Liquid:

5.0 BBL

0.00 BBL

## Recovered Volumes

Estimated oil recovered: BBL check - okay  
Estimated water recovered: BBL check - okay

## Estimated Production Volumes Lost

Estimated Production Spilled: H2O 0.0 BBL OIL 0.0 BBL

## Estimated Surface Damage

Surface Area: 1,200 sq. ft.

Surface Area: .0275 acre

## Estimated Weights, and Volumes

Saturated Soil = 22,400 lbs 200 cu. ft. 7 cu. yds.  
Total Liquid = 5 BBL 209 gallon 1,743 lbs

## Air Emission from flowline leaks:

Volume of oil spill: - BBL  
Separator gas calculated: - MCF  
Separator gas released: - MCF  
Gas released from oil: - lb  
H2S released: - lb  
Total HC gas released: - lb  
Total HC gas released: - MCF

## Air Emission of Reporting Requirements:

New Mexico Texas  
HC gas release reportable? NO NO  
H2S release reportable? NO NO

|                |  |
|----------------|--|
| 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 <b>not</b> 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.

Oil Conservation Division

|                |  |
|----------------|--|
| 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: \_\_\_\_\_

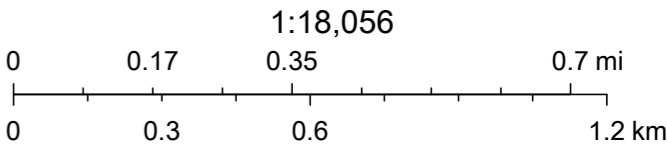
## **APPENDIX B**

### **Site Characterization Data**

# OCD Waterbodies Locations



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



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

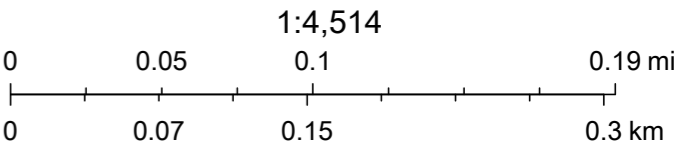
# OCD Potential Karst Map



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 |
|-------------------------|--------------|-------|--------|------|------|-----|-----|-----|-----|--------|---------|----------|------------|-------------|--------------|
| <a href="#">C 04665</a> | CUB          | LE    |        | 1    | 1    | 2   | 30  | 24S | 32E | 621350 | 3562798 | 723      | 120        |             |              |

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 620631.2

**Northing (Y):** 3562717.58

**Radius:** 800

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

5/18/23 7:33 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

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

Average Depth to Water: **135 feet**

Minimum Depth: **135 feet**

Maximum Depth: **135 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

**Easting (X):** 620631.2

**Northing (Y):** 3562717.58

**Radius:** 2500

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

1/27/23 3:11 PM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

## **APPENDIX C**

### **Regulatory Correspondence**

**Rose-Coss, Dylan H, EMNRD**

---

**From:** Rose-Coss, Dylan H, EMNRD  
**Sent:** Thursday, August 15, 2019 2:33 PM  
**To:** 'Amos, James'  
**Cc:** DeAnn Grant; Dakota Neel; Sheldon Hitchcock; Ike Tavarez; Rebecca Haskell; Jennifer Knowlton  
**Subject:** RE: [EXTERNAL] RE: (Resubmittal #2) COG King Tut Federal #1H (2.8.19) Closure Request

Ms. Grant,

The OCD is in agreement with the BLM. At this time the deferral and closure request is denied. Please prepare and resubmit a remediation/reclamation plan that addresses the top four feet of impacted soils at the site.

Thanks,

**Dylan Rose-Coss**

*Environmental Scientist*  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

(505) 476-3488



**From:** Amos, James <jamos@blm.gov>  
**Sent:** Thursday, August 15, 2019 11:27 AM  
**To:** Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>  
**Cc:** DeAnn Grant <agrant@concho.com>; Dakota Neel <DNeel2@concho.com>; Sheldon Hitchcock <SLHitchcock@concho.com>; Ike Tavarez <itavarez@concho.com>; Rebecca Haskell <RHaskell@concho.com>; Jennifer Knowlton <jknowlton@concho.com>  
**Subject:** Re: [EXTERNAL] RE: (Resubmittal #2) COG King Tut Federal #1H (2.8.19) Closure Request

DeAnn,

After reviewing your request to defer the remediation and restoration of the referenced release of 2/8/19, the BLM will have to deny your Closure Request. Chloride numbers are below Table One, however, they are above the levels that will meet the reclamation/restoration requirements of being below the 600 mg/kg. You may want to explore other options that are out there or remove the top 4', haul, backfill with clean material, and restore the surface. If any questions, please let me know. Thanks

On Tue, Jul 23, 2019 at 10:48 AM Rose-Coss, Dylan H, EMNRD <[DylanH.Rose-Coss@state.nm.us](mailto:DylanH.Rose-Coss@state.nm.us)> wrote:

Received.

Thanks you. I will attempt to review in a timely manner.

Best,

**Dylan Rose-Coss**

*Environmental Scientist*

Oil Conservation Division

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

(505) 476-3488



---

**From:** DeAnn Grant <[agrant@concho.com](mailto:agrant@concho.com)>

**Sent:** Monday, July 22, 2019 9:39 AM

**To:** Rose-Coss, Dylan H, EMNRD <[DylanH.Rose-Coss@state.nm.us](mailto:DylanH.Rose-Coss@state.nm.us)>; [jamos@blm.gov](mailto:jamos@blm.gov)

**Cc:** DeAnn Grant <[agrant@concho.com](mailto:agrant@concho.com)>; Dakota Neel <[DNeel2@concho.com](mailto:DNeel2@concho.com)>; Sheldon Hitchcock <[SLHitchcock@concho.com](mailto:SLHitchcock@concho.com)>; Ike Tavarez <[itavarez@concho.com](mailto:itavarez@concho.com)>; Rebecca Haskell <[RHaskell@concho.com](mailto:RHaskell@concho.com)>; Jennifer

Knowlton <[jknowlton@concho.com](mailto:jknowlton@concho.com)>

**Subject:** [EXT] (Resubmittal #2) COG King Tut Federal #1H (2.8.19) Closure Request

Mr. Rose-Coss/Mr. Amos,

Please find the attached Closure Request for the COG King Tut Federal #1H release which occurred on 2/8/19. The Closure Request was originally submitted to the NMOCD District 1 Office on March 27, 2019 and resubmitted May 23, 2019. COG is requesting that you review this Closure Request.

Thank You,

*DeAnn Grant*

HSE Administrative Assistant

[agrant@concho.com](mailto:agrant@concho.com)

COG Operating LLC

600 W Illinois Avenue | Midland, TX 79701  
Direct: 432-253-4513 | Main: 432.683.7443



---

**From:** Rebecca Haskell

**Sent:** Thursday, May 23, 2019 3:10 PM

**To:** Rose-Coss, Dylan H, EMNRD <[DylanH.Rose-Coss@state.nm.us](mailto:DylanH.Rose-Coss@state.nm.us)>; Jim Amos ([jamos@blm.gov](mailto:jamos@blm.gov)) <[jamos@blm.gov](mailto:jamos@blm.gov)>

**Cc:** DeAnn Grant <[agrant@concho.com](mailto:agrant@concho.com)>; Dakota Neel <[DNeel2@concho.com](mailto:DNeel2@concho.com)>; Sheldon Hitchcock <[SLHitchcock@concho.com](mailto:SLHitchcock@concho.com)>; Ike Tavarez <[itavarez@concho.com](mailto:itavarez@concho.com)>; Rebecca Haskell <[RHaskell@concho.com](mailto:RHaskell@concho.com)>; Jennifer Knowlton <[jknowlton@concho.com](mailto:jknowlton@concho.com)>

**Subject:** (Resubmittal) COG King Tut Federal #1H (2.8.19) Closure Request

Mr. Rose-Coss/Mr. Amos,

Please find the attached Work Plan for the COG King Tut Federal #1H Release which occurred on 2/8/19. The Closure Request was originally submitted to the NMOCD District 1 Office on March 27, 2019. COG is requesting that you review this Closure Request.

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](mailto:rhaskell@concho.com)



CONFIDENTIALITY NOTICE: The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information herein, is prohibited. If you received this email in error, please immediately notify the sender by return email and delete this email from your system. Thank you.

---

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

**Sent:** Wednesday, March 27, 2019 1:20 PM

**To:** [emnrd-ocd-district1spills@state.nm.us](mailto:emnrd-ocd-district1spills@state.nm.us); 'jamos@blm.gov' <[jamos@blm.gov](mailto:jamos@blm.gov)>

**Cc:** Rebecca Haskell <[RHaskell@concho.com](mailto:RHaskell@concho.com)>; Ike Tavaréz <[itavarez@concho.com](mailto:itavarez@concho.com)>; Sheldon Hitchcock <[SLHitchcock@concho.com](mailto:SLHitchcock@concho.com)>; Dakota Neel <[DNeel2@concho.com](mailto:DNeel2@concho.com)>; DeAnn Grant <[agrant@concho.com](mailto:agrant@concho.com)>; Kell, John <[John.Kell@tetrattech.com](mailto:John.Kell@tetrattech.com)>; Carmona, Mike <[Mike.Carmona@tetrattech.com](mailto:Mike.Carmona@tetrattech.com)>

**Subject:** [External] COG King Tut Federal #1H (2.8.19) Closure Request

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

Good Morning,

Attached is the closure report for the above referenced site located in Lea County, New Mexico. Please let me know if you have any questions or concerns.

Thank you,

***Clair Gonzales***

**Clair Gonzales | Project Manager**

Phone: 432.687.8123 | Mobile 432.260.8634 | Fax: 432.682.3946

[clair.gonzales@tetratech.com](mailto:clair.gonzales@tetratech.com)

Tetra Tech | Complex World, CLEAR SOLUTIONS™

901 West Wall Street, Ste 100 | Midland, TX 79701 | [www.tetratech.com](http://www.tetratech.com)

PLEASE NOTE: This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.

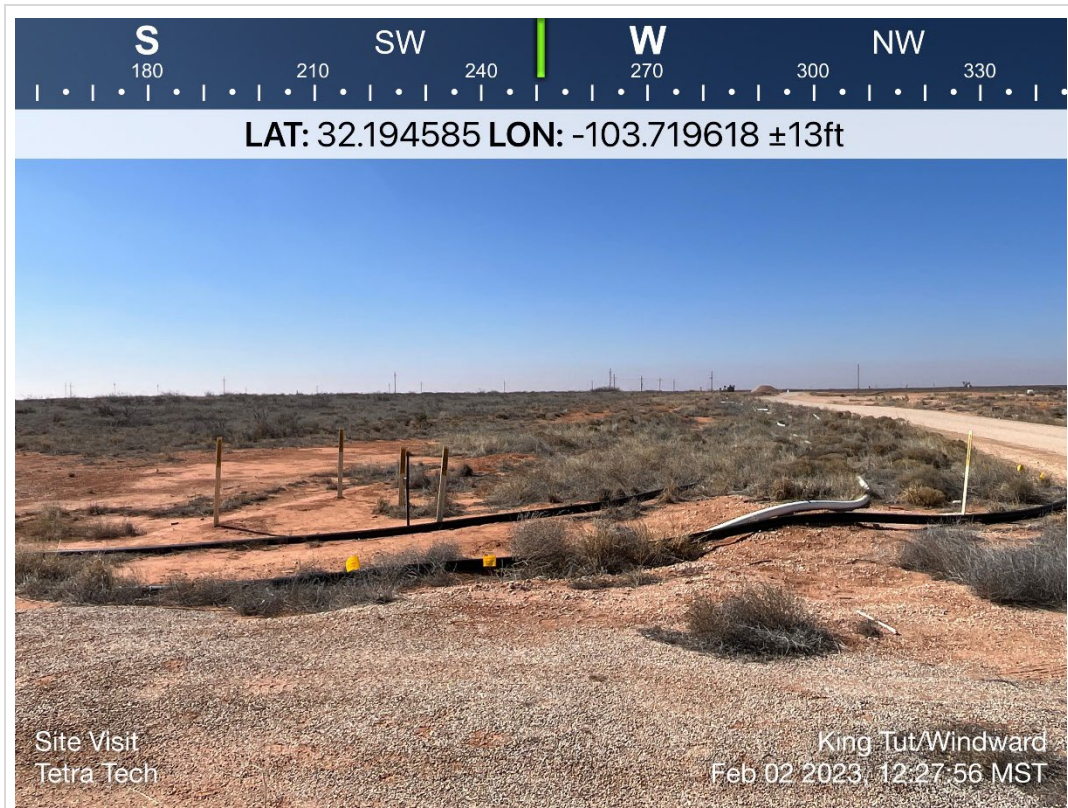
--

Confidentiality Warning: This message along with any attachments are intended only for use of the individual or entity to which it is addressed and may contain information that is privileged or confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately.

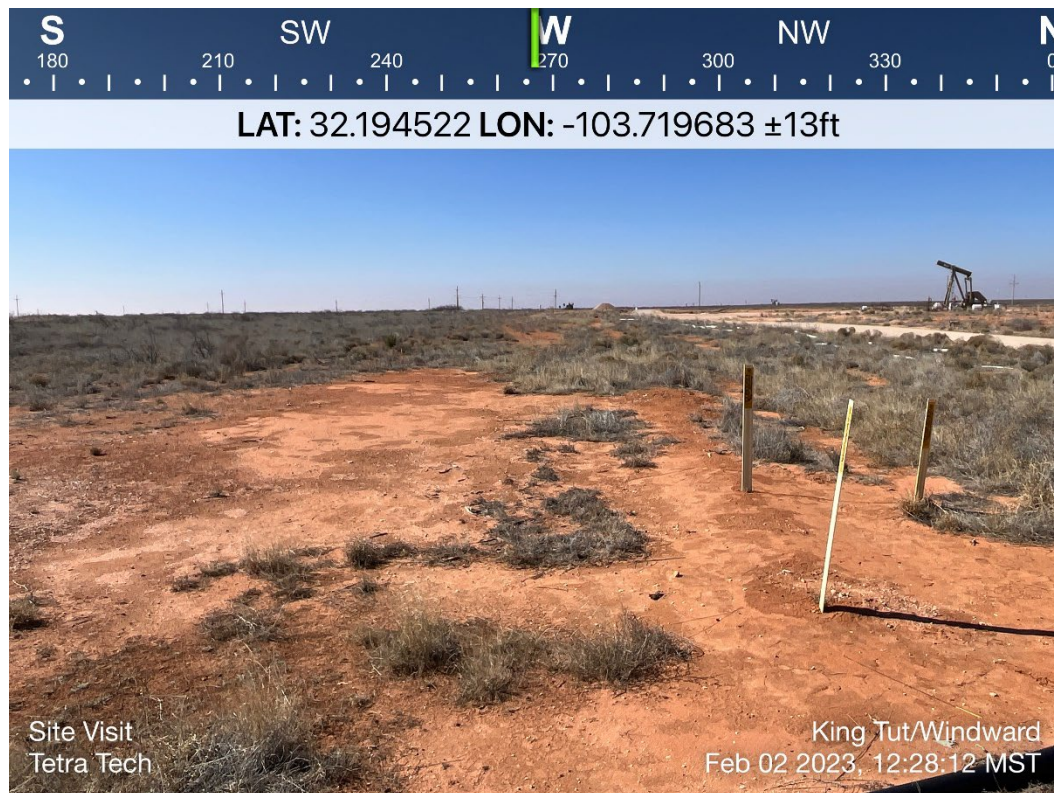
James A. Amos  
Bureau of Land Management  
Carlsbad Field Office  
Supervisory Petroleum Engineering Tech  
620 East Greene Street  
Carlsbad, NM. 88220  
Office: (575) 234-5909  
Fax: (575) 234-5927  
Cell: (575) 361-2648  
E-mail: [jamoss@blm.gov](mailto:jamoss@blm.gov)

## **APPENDIX D**

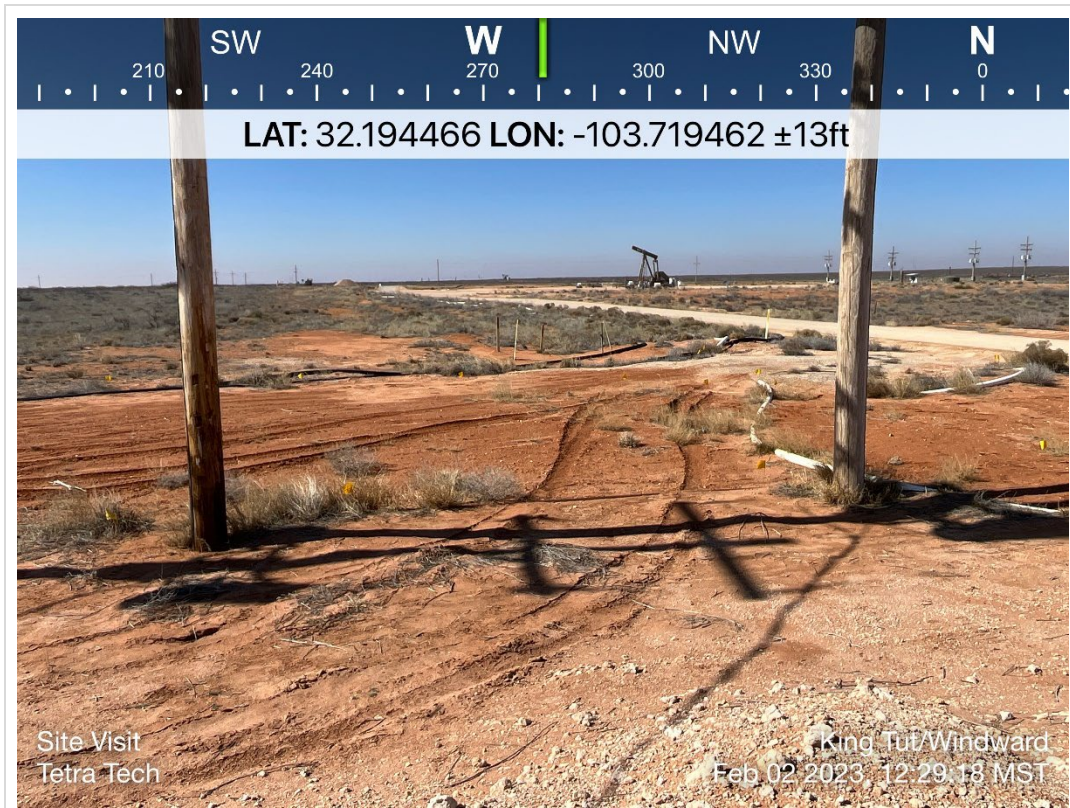
# **Photographic Documentation**



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



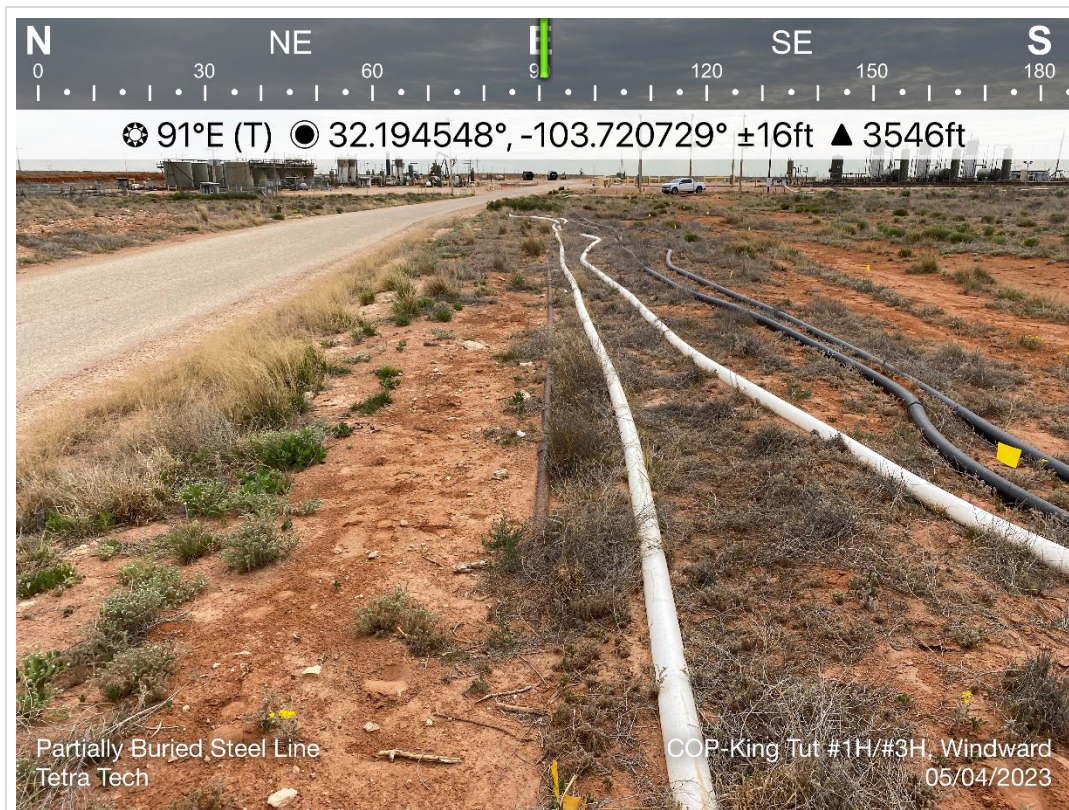
|  |             |  |          |
|--|-------------|--|----------|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-02999 | DESCRIPTION | View W of release extent and pipeline right-of-way.                                  | 2        |
|  | SITE NAME   | KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, &<br>WINDWARD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



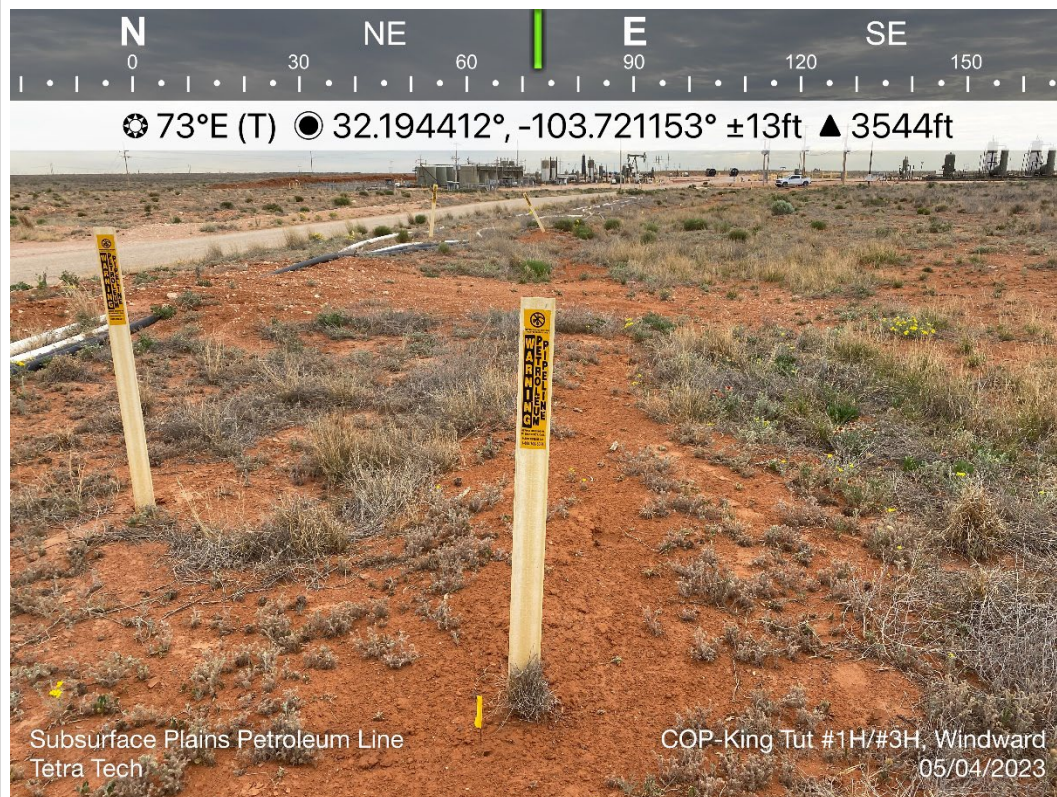
|  |             |   |          |
|--|-------------|---|----------|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-02999 | DESCRIPTION | View W of lease road and release extent from beneath overhead electrical lines.   | 3        |
|  | SITE NAME   | KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD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



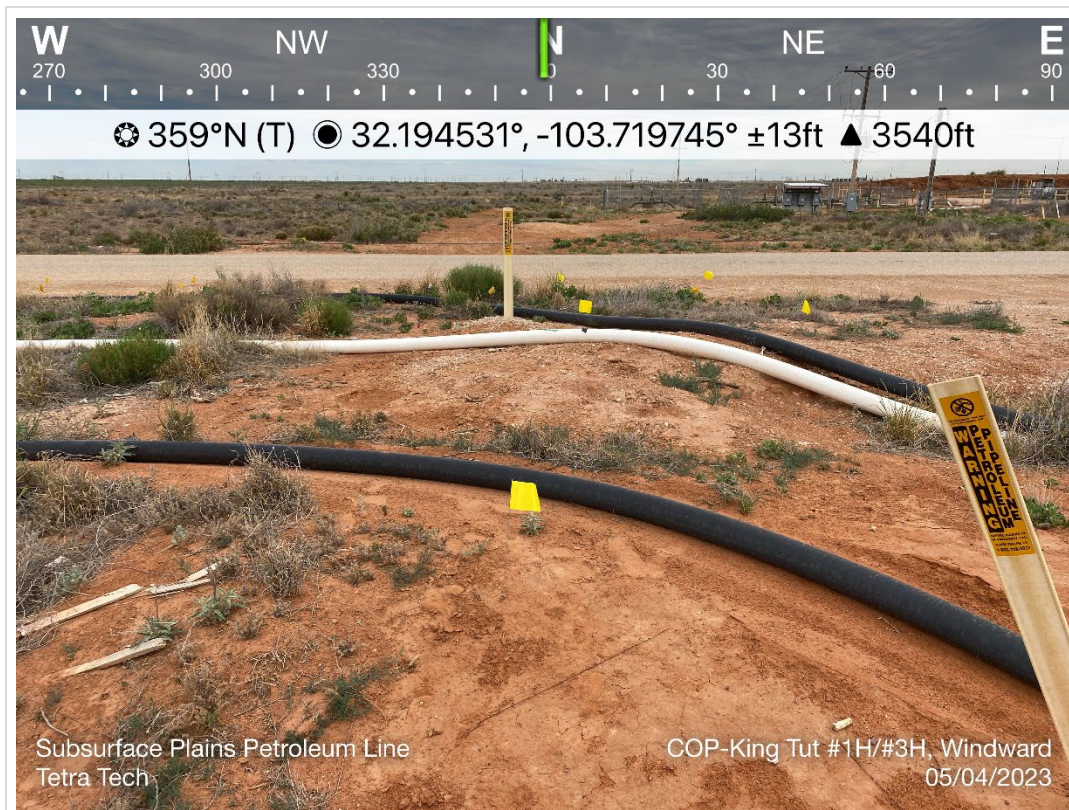
|  |             |   |          |
|--|-------------|---|----------|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-02999 | DESCRIPTION | View W towards lease road.  | 4        |
|  | SITE NAME   | KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD FEDERAL #001H Releases | 2/2/2023 |



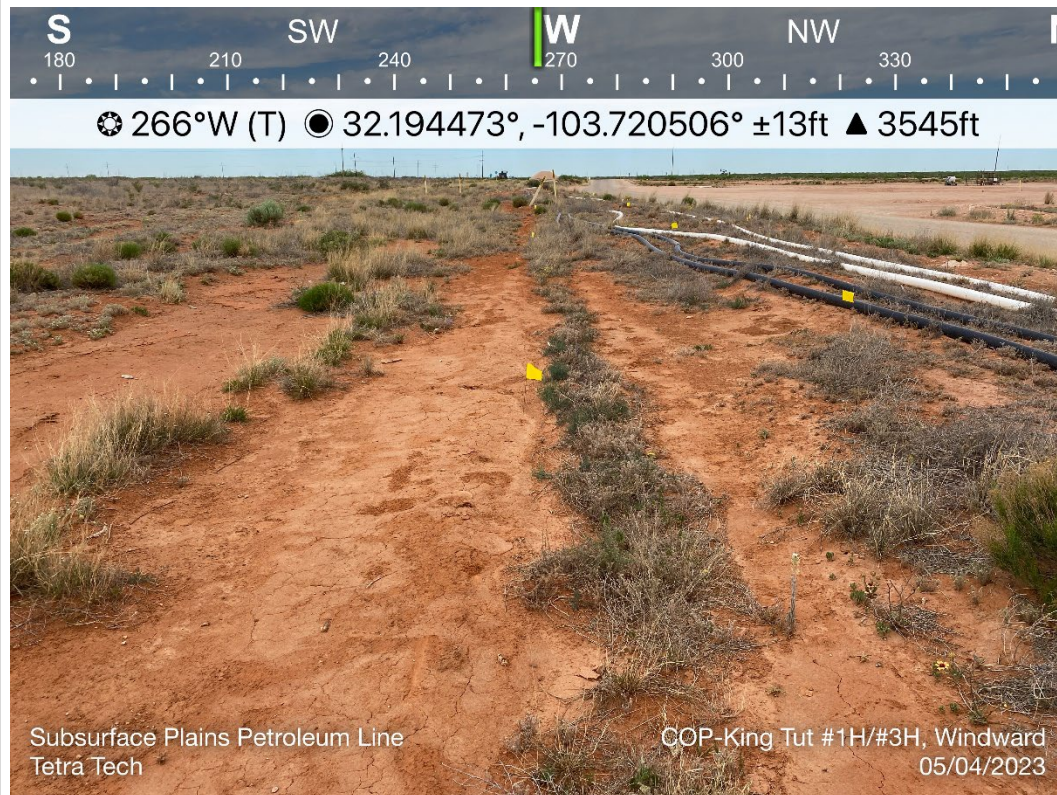
|  |             |   |          |
|--|-------------|---|----------|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-02999 | DESCRIPTION | View west. View of historical release area. Surface poly lines and buried steel line. | 5        |
|  | SITE NAME   | KING TUT FEDERAL #001H, KING TUT FEDERAL #003H,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



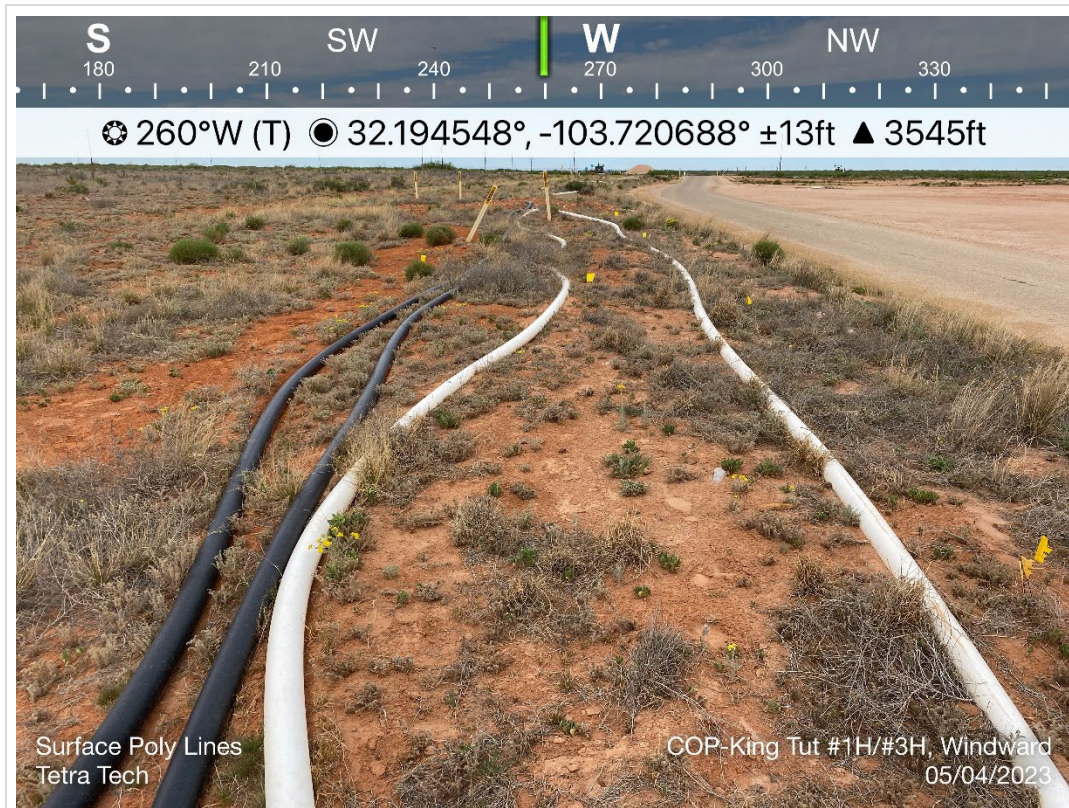
|  |             |   |          |
|--|-------------|---|----------|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-02999 | DESCRIPTION | View northeast. View of surface lines. Vegetation present.                        | 6        |
|  | SITE NAME   | KING TUT FEDERAL #001H, KING TUT FEDERAL #003H, & WINDWARD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



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



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



|  |             |   |          |
|--|-------------|---|----------|
| TETRA TECH, INC.<br>PROJECT NO.<br>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.<br>PROJECT NO.<br>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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more prominent.

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

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 144    | 16.0            | 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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, 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            | 09/11/2023 | 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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, 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 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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)**

| 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) 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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)**

| 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             | 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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, SM4500Cl-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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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)**

| 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, SM4500Cl-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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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)**

| 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             | 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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)**

| 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, SM4500Cl-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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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)**

| 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             | 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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)**

| 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             | 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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)**

| 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             | 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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, SM4500Cl-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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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)**

| 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             | 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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)**

| 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             | 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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)**

| 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             | 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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, SM4500Cl-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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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)**

| 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             | 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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)**

| 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             | 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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)**

| 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) 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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)**

| 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             | 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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, SM4500Cl-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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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)**

| 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             | 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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)**

| 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             | 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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)**

| 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             | 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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)**

| 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) 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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)**

| 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             | 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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)**

| 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) 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             | 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 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)**

| 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           | 09/11/2023 | 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 BTEX     | <0.300 | 0.300           | 09/11/2023 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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             | 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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



---

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

---

### 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<br>Samples reported on an as received basis (wet) unless otherwise noted on report |

---

Cardinal Laboratories

\*=Accredited Analyte

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

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

---

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

|   |  |  |  |  |  |  |  |  |  |                    |  |   |  |                                     |  |                 |  |      |  |
|---|--|--|--|--|--|--|--|--|--|--------------------|--|---|--|-------------------------------------|--|-----------------|--|------|--|
| <b>Company Name:</b> Tetra Tech<br><b>Project Manager:</b> Sam Abbott<br><b>Address:</b> 8911 Capital o Texas Hwy, Suite 2310<br><b>City:</b> Austin <b>State:</b> TX <b>Zip:</b> _____<br><b>Phone #:</b> (512)565-0190 <b>Fax #:</b> _____<br><b>Project #:</b> 212C-MD-02999A <b>Project Owner:</b> ConocoPhillips<br><b>Project Name:</b> King Tut #001H Release<br><b>Project Location:</b> Lea County, New Mexico<br><b>Sample Name:</b> Colton Bickersstaff <b>State:</b> _____ <b>Zip:</b> _____<br><b>Phone #:</b> _____ <b>Fax #:</b> _____ |  |  |  |  |  |  |  |  |  | <b>BILL TO</b>     |  | <b>ANALYSIS REQUEST</b>                                       |  |                                     |  |                 |  |      |  |
| <b>Lab I.D.</b>   |  |  |  |  |  |  |  |  |  | <b>Sample I.D.</b> |  | <b>Matrix</b>   |  | <b>Preserv.</b>                     |  | <b>Sampling</b> |  |      |  |
| (G)RAB OR (C)OMP.   |  |  |  |  |  |  |  |  |  | # CONTAINERS       |  | GROUNDWATER<br>WASTEWATER<br>SOIL<br>OIL<br>SLUDGE<br>OTHER : |  | ACID/BASE:<br>ICE / COOL<br>OTHER : |  | DATE            |  | TIME |  |
|   |  |  |  |  |  |  |  |  |  |                    |  |   |  |                                     |  |                 |  |      |  |
| 1 AH-23-12 (0-1')   |  |  |  |  |  |  |  |  |  | G 1                |  | X   |  | 9/7/2023                            |  | X               |  |      |  |
| 2 AH-23-12 (1-2')   |  |  |  |  |  |  |  |  |  | G 1                |  | X   |  | 9/7/2023                            |  | X               |  |      |  |
| 3 AH-23-12 (2-3')   |  |  |  |  |  |  |  |  |  | G 1                |  | X   |  | 9/7/2023                            |  | X               |  |      |  |
| 4 AH-23-12 (3-4')   |  |  |  |  |  |  |  |  |  | G 1                |  | X   |  | 9/7/2023                            |  | X               |  |      |  |
| 5 AH-23-12 (4-5')   |  |  |  |  |  |  |  |  |  | G 1                |  | X   |  | 9/7/2023                            |  | X               |  |      |  |
| 6 AH-23-13 (0-1')   |  |  |  |  |  |  |  |  |  | G 1                |  | X   |  | 9/7/2023                            |  | X               |  |      |  |
| 7 AH-23-13 (1-2')   |  |  |  |  |  |  |  |  |  | G 1                |  | X   |  | 9/7/2023                            |  | X               |  |      |  |
| 8 AH-23-13 (2-3')   |  |  |  |  |  |  |  |  |  | G 1                |  | X   |  | 9/7/2023                            |  | X               |  |      |  |
| 9 AH-23-13 (3-4')   |  |  |  |  |  |  |  |  |  | G 1                |  | X   |  | 9/7/2023                            |  | X               |  |      |  |
| 10 AH-23-13 (4-5')  |  |  |  |  |  |  |  |  |  | G 1                |  | X   |  | 9/7/2023                            |  | X               |  |      |  |

PLEASE NOTE: Liability and coverage. Cardwell and/or clients assume responsibility for any claim arising whether stated in contract or not, shall be limited to the amount stated by the contract for the analysis. All claims including those for negligence and any other causes whatsoever shall be deemed waived unless made in writing and received by Cardwell within 30 days after the event that Cardwell be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client. No substitution, falsification or suppression of data or of results to the performance of services rendered by Cardwell, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

|   |  |                     |  |  |  |  |  |                       |  |
|---|--|---------------------|--|--|--|--|--|-----------------------|--|
| <b>Reinquired By:</b> Colton Bickersstaff |  | <b>Date:</b> 9/8/23 |  | <b>Received By:</b> <i>[Signature]</i> |  | <b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No |  | <b>Add'l Phone #:</b> |  |
| <b>Reinquired By:</b>                     |  | <b>Date:</b> 9/8/23 |  | <b>Received By:</b>                    |  | <b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No |  | <b>Add'l Phone #:</b> |  |
| <b>Time:</b>                              |  | <b>Time:</b>        |  | <b>Time:</b>                           |  | <b>Time:</b>   |  | <b>Time:</b>          |  |

|  |  |  |  |  |  |                                  |  |   |  |
|--|--|--|--|--|--|----------------------------------|--|---|--|
| <b>Delivered by (Circle One)</b><br>Sampler - UPS - <input checked="" type="checkbox"/> Other: |  | <b>Observed Temp., °C</b><br>Corrected Temp., °C |  | <b>Sample Condition</b><br>Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/><br><input type="checkbox"/> Yes <input type="checkbox"/> No |  | <b>CHECKER BY:</b><br>(Initials) |  | <b>Thermometer ID:</b> #140<br>Correction Factor: +0.06 |  |
| 0.8  |  | 0.8  |  | Yes  |  | Yes                              |  | 9/8/23  |  |



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| <b>Company Name:</b> Tetra Tech                                       |             |                   |              | <b>BILL TO</b>             |            |            |         | <b>ANALYSIS REQUEST</b> |          |                     |  |
|---|-------------|-------------------|--------------|----------------------------|------------|------------|---------|-------------------------|----------|---------------------|--|
| <b>Project Manager:</b> Sam Abbott                                    |             |                   |              | <b>P.O. #:</b>             |            |            |         |                         |          |                     |  |
| <b>Address:</b> 8911 Capital o Texas Hwy, Suite 2310                  |             |                   |              | <b>Company:</b> Tetra Tech |            |            |         |                         |          |                     |  |
| <b>City:</b> Austin   |             |                   |              | <b>Attn:</b> Sam Abbott    |            |            |         |                         |          |                     |  |
| <b>State:</b> TX <b>Zip:</b>  |             |                   |              | <b>City:</b> EMAIL         |            |            |         |                         |          |                     |  |
| <b>Phone #:</b> (512)565-0190 <b>Fax #:</b>                           |             |                   |              | <b>State:</b> Zip:         |            |            |         |                         |          |                     |  |
| <b>Project #:</b> 212C-MD-Q2999A <b>Project Owner:</b> ConocoPhillips |             |                   |              |                            |            |            |         |                         |          |                     |  |
| <b>Project Name:</b> King Tut #001H Release                           |             |                   |              |                            |            |            |         |                         |          |                     |  |
| <b>Project Location:</b> Lea County, New Mexico                       |             |                   |              | <b>Phone #:</b>            |            |            |         |                         |          |                     |  |
| <b>Sampler Name:</b> Colton Bickersstaff                              |             |                   |              | <b>Fax #:</b>              |            |            |         |                         |          |                     |  |
| Lab I.D.  | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX                     |            |            |         |                         | PRESERV. | SAMPLING            |  |
|   |             |                   |              | GROUNDWATER                | WASTEWATER | SOIL       | OIL     | SLUDGE                  |          |                     |  |
|   |             |                   |              | OTHER :                    | ACID/BASE: | ICE / COOL | OTHER : |                         |          |                     |  |
|   |             |                   |              |                            |            |            |         |                         |          |                     |  |
|   |             |                   |              |                            |            |            |         |                         |          |                     |  |
| <b>H23487D</b>  |             |                   |              |                            |            |            |         |                         |          |                     |  |
| 11 AH-23-14 (0-1')  | G 1         |                   |              |                            |            |            |         | DATE                    | TIME     | TPH 8015M           |  |
| 12 AH-23-14 (1'-2')   | G 1         |                   |              |                            |            |            |         | 9/7/2023                |          | BTEX 8021B          |  |
| 13 AH-23-14 (2'-3')   | G 1         |                   |              |                            |            |            |         | 9/7/2023                |          | Chloride SM4500CI-B |  |
| 14 AH-23-14 (3'-4')   | G 1         |                   |              |                            |            |            |         | 9/7/2023                |          |                     |  |
| 15 AH-23-14 (4'-5')   | G 1         |                   |              |                            |            |            |         | 9/7/2023                |          |                     |  |
| 16 AH-23-15 (0-1')  | G 1         |                   |              |                            |            |            |         | 9/7/2023                |          |                     |  |
| 17 AH-23-15 (1'-2')   | G 1         |                   |              |                            |            |            |         | 9/7/2023                |          |                     |  |
| 18 AH-23-15 (2'-3') ..  | G 1         |                   |              |                            |            |            |         | 9/7/2023                |          |                     |  |
| 19 AH-23-15 (3'-4')   | G 1         |                   |              |                            |            |            |         | 9/7/2023                |          |                     |  |
| 20 AH-23-15 (4'-5')   | G 1         |                   |              |                            |            |            |         | 9/7/2023                |          |                     |  |

NOTE: Liability and Damages: Contractor's liability and damages are limited to the amount paid by the client for the analysis. 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 the event itself. Carrier will be liable for replacement or consequential damages including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Contractor regardless of whether such claim is based upon any of the above stated remedies or otherwise.

|   |  |   |  |   |                       |
|---|--|---|--|---|-----------------------|
| <b>Relinquished By:</b> Colton Bickersstaff                       |  | <b>Date:</b> 9/8/23                                       | <b>Received By:</b> [Signature]  | <b>Verbal Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <b>Add'l Phone #:</b> |
| <b>Relinquished By:</b>   |  | <b>Date:</b> 9/25/23                                      | <b>Received By:</b> [Signature]  | <b>All Results are emailed. Please provide Email address:</b> Sam.Abbott@tetratech.com    |                       |
| <b>Delivered By:</b> (Circle One)<br>Sampler - UPS - Bus - Other: |  | <b>Observed Temp. °C</b><br><b>Corrected Temp. °C</b> 0.8 | <b>Sample Condition</b><br>Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/>          | <b>CHECKED BY:</b> (Initials)<br>[Signature] 9/8/23                                       |                       |
|   |  | <b>Thermometer ID:</b> #1140                              | <b>Standard:</b> <input checked="" type="checkbox"/> <b>Rack Vial Standard TAT:</b> <input type="checkbox"/> | <b>Remarks:</b>   |                       |
|   |  | <b>Correction Factor:</b> .005                            | <b>Bacteria (only) Storage C° -ation</b>   | <b>Thermometer ID:</b> #1140  |                       |
|   |  |   | <b>Cool Incub:</b> <input type="checkbox"/>  | <b>Observed Temp. °C</b>  |                       |
|   |  |   | <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/>                                       | <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/>                    |                       |
|   |  |   | <b>Correction Temp. °C</b>   | <b>Correction Temp. °C</b>  |                       |



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

|   |                |                                   |   |                            |  |                     |  |                         |  |  |  |
|---|----------------|-----------------------------------|---|----------------------------|--|---------------------|--|-------------------------|--|--|--|
| <b>Company Name:</b> Tetra Tech                                       |                |                                   |   | <b>BILL TO</b>             |  |                     |  | <b>ANALYSIS REQUEST</b> |  |  |  |
| <b>Project Manager:</b> Sam Abbott                                    |                |                                   |   | <b>P.O. #:</b>             |  |                     |  |                         |  |  |  |
| <b>Address:</b> 8911 Capital o Texas Hwy, Suite 2310                  |                |                                   |   | <b>Company:</b> Tetra Tech |  |                     |  |                         |  |  |  |
| <b>City:</b> Austin   |                |                                   |   | <b>Attn:</b> Sam Abbott    |  |                     |  |                         |  |  |  |
| <b>Phone #:</b> (512)565-0190 <b>Fax #:</b>                           |                |                                   |   | <b>Address:</b> EMAIL      |  |                     |  |                         |  |  |  |
| <b>Project #:</b> 212C-MD-02999A <b>Project Owner:</b> ConocoPhillips |                |                                   |   | <b>City:</b>               |  |                     |  |                         |  |  |  |
| <b>Project Name:</b> King Tut #001H Release                           |                |                                   |   | <b>State:</b> <b>Zip:</b>  |  |                     |  |                         |  |  |  |
| <b>Project Location:</b> Lea County, New Mexico                       |                |                                   |   | <b>Phone #:</b>            |  |                     |  |                         |  |  |  |
| <b>Sampler Name:</b> Colton Bickerstaff                               |                |                                   |   | <b>Fax #:</b>              |  |                     |  |                         |  |  |  |
| <b>FOR LAB USE ONLY</b>   |                | <b>Lab I.D.</b>                   |   | <b>MATRIX</b>              |  | <b>PRESERV.</b>     |  | <b>SAMPLING</b>         |  |  |  |
| <b>H234870</b><br><br>Sample I.D.<br><br>                             |                | (G)RAB OR (C)OMP.<br># CONTAINERS |   | GROUNDWATER                |  |                     |  |                         |  |  |  |
|   |                |                                   |   | WASTEWATER                 |  |                     |  |                         |  |  |  |
|   |                |                                   |   | SOIL                       |  |                     |  |                         |  |  |  |
|   |                |                                   |   | OIL                        |  |                     |  |                         |  |  |  |
|   |                |                                   |   | SLUDGE                     |  |                     |  |                         |  |  |  |
|   |                |                                   |   | OTHER :                    |  |                     |  |                         |  |  |  |
|   |                | ACID/BASE:                        |   |                            |  |                     |  |                         |  |  |  |
|   |                | ICE / COOL                        |   |                            |  |                     |  |                         |  |  |  |
|   |                | OTHER :                           |   |                            |  |                     |  |                         |  |  |  |
|   |                | DATE                              |   | TIME                       |  |                     |  |                         |  |  |  |
|   |                |                                   |   |                            |  | TPH 8015M           |  |                         |  |  |  |
|   |                |                                   |   |                            |  | BTEX 8021B          |  |                         |  |  |  |
|   |                |                                   |   |                            |  | Chloride SM4500Cl-B |  |                         |  |  |  |
| 31  | AH-23-18 (0-1) | G                                 | 1 | X                          |  |                     |  |                         |  |  |  |
| 32  | AH-23-18 (1-2) | G                                 | 1 | X                          |  |                     |  |                         |  |  |  |
| 33  | AH-23-18 (2-3) | G                                 | 1 | X                          |  |                     |  |                         |  |  |  |
| 34  | AH-23-18 (3-4) | G                                 | 1 | X                          |  |                     |  |                         |  |  |  |
| 35  | AH-23-18 (4-5) | G                                 | 1 | X                          |  |                     |  |                         |  |  |  |
| 36  | AH-23-19 (0-1) | G                                 | 1 | X                          |  |                     |  |                         |  |  |  |
| 37  | AH-23-19 (1-2) | G                                 | 1 | X                          |  |                     |  |                         |  |  |  |
| 38  | AH-23-19 (2-3) | G                                 | 1 | X                          |  |                     |  |                         |  |  |  |
| 39  | AH-23-19 (3-4) | G                                 | 1 | X                          |  |                     |  |                         |  |  |  |
| 40  | AH-23-19 (4-5) | G                                 | 1 | X                          |  |                     |  |                         |  |  |  |

PLEASE NOTE: Liability and Cleanup Contractual liability and cleanup remedy for any claim arising without regard to cost or time shall be limited to the amount paid by me under the analysis. All claims, including those for negligence and any other causes whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of services hereunder. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of data, or loss of profits incurred by client. The undersigned, initiation or acceptance arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

|  |              |                                 |              |
|--|--------------|---------------------------------|--------------|
| <b>Relinquished By:</b> Colton Bickerstaff | Date: 9/8/23 | <b>Received By:</b> [Signature] | Date: 9/8/23 |
| <b>Relinquished By:</b>                    | Date:        | <b>Received By:</b>             | Date:        |

|  |   |  |  |
|--|---|--|--|
| Delivered By: (Circle One)<br>Sampler - UPS - Blue - Other:  | Observed Temp. °C<br>Corrected Temp. °C | Sample Condition<br>Cool Impact<br><input type="checkbox"/> No <input checked="" type="checkbox"/> Yes | CHECKED BY:<br>(Initials)  |
| Turnaround Time: Standard <input checked="" type="checkbox"/> Rush VA, Standard TAT <input type="checkbox"/> | Thermometer ID: 6159-#140               | Bacteria (only) Sample Condition<br>Cool Impact Observed Temp. °C                                      | Add'l Phone #: _____   |
| Correction Factor: 0.00  | Yr. 9/8/23                              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                    | REMARKS: All Results are emailed. Please provide Email address: Sam.Abbott@tetratech.com |



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 293215

**QUESTIONS**

|  |                |
|--|----------------|
| Operator:<br>COG PRODUCTION, LLC<br>600 W. Illinois Ave<br>Midland, TX 79701 | OGRID:         |
|  | 217955         |
|  | Action Number: |
|  | 293215         |
| Action Type:   |                |
| [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)                     |                |

**QUESTIONS**

| Prerequisites    |   |
|------------------|---|
| Incident ID (n#) | nAB1905046526                                       |
| Incident Name    | NAB1905046526 KING TUT FEDERAL #001H @ 30-025-41542 |
| Incident Type    | Produced Water Release                              |
| Incident Status  | Remediation Plan Received                           |
| Incident Well    | [30-025-41542] KING TUT FEDERAL #001H               |

**Location of Release Source**

Please answer all the questions in this group.

|                         |                        |
|-------------------------|------------------------|
| Site Name               | KING TUT FEDERAL #001H |
| Date Release Discovered | 02/08/2019             |
| Surface Owner           | Federal                |

**Incident Details**

Please answer all the questions in this group.

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

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

|  |  |
|--|--|
| Crude Oil Released (bbls) Details  | Cause: Equipment Failure   Flow Line - Production   Crude Oil   Released: 0 BBL   Recovered: 0 BBL   Lost: 0 BBL.          |
| Produced Water Released (bbls) Details   | Cause: Equipment Failure   Flow Line - Production   Produced Water   Released: 10 BBL   Recovered: 5 BBL   Lost: 5 BBL.    |
| Is the concentration of chloride in the produced water >10,000 mg/l  | Yes  |
| Condensate Released (bbls) Details   | Cause: Equipment Failure   Flow Line - Production   Condensate   Released: 0 BBL   Recovered: 0 BBL   Lost: 0 BBL.         |
| Natural Gas Vented (Mcf) Details   | Cause: Equipment Failure   Flow Line - Production   Natural Gas Vented   Released: 0 Mcf   Recovered: 0 Mcf   Lost: 0 Mcf. |
| Natural Gas Flared (Mcf) Details   | Cause: Equipment Failure   Flow Line - Production   Natural Gas Flared   Released: 0 Mcf   Recovered: 0 Mcf   Lost: 0 Mcf. |
| Other Released Details   | Cause: Equipment Failure   Flow Line - Production   Produced Water   Released: 0 BBL   Recovered: 0 BBL   Lost: 0 BBL.     |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | NA   |

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 2

Action 293215

**QUESTIONS (continued)**

|  |                |
|--|----------------|
| Operator:<br>COG PRODUCTION, LLC<br>600 W. Illinois Ave<br>Midland, TX 79701 | OGRID:         |
|  | 217955         |
|  | Action Number: |
|  | 293215         |
| Action Type:   |                |
| [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)                     |                |

**QUESTIONS**

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

**Initial Response**

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

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

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

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

|  |  |
|--|--|
| I hereby agree and sign off to the above statement | Name: Christian LLuLL<br>Title: Project Manager<br>Email: christian.llull@tetrattech.com<br>Date: 12/11/2023 |
|--|--|

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 293215

**QUESTIONS (continued)**

|  |  |
|--|--|
| Operator:<br>COG PRODUCTION, LLC<br>600 W. Illinois Ave<br>Midland, TX 79701 | OGRID:<br>217955   |
|  | Action Number:<br>293215   |
|  | Action Type:<br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

**QUESTIONS****Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

|  |                                |
|--|--------------------------------|
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs) | Between 100 and 500 (ft.)      |
| What method was used to determine the depth to ground water  | NM OSE iWaters Database Search |
| Did this release impact groundwater or surface water   | No                             |
| <b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>   |                                |
| A continuously flowing watercourse or any other significant watercourse  | Greater than 5 (mi.)           |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)  | Greater than 5 (mi.)           |
| An occupied permanent residence, school, hospital, institution, or church  | Greater than 5 (mi.)           |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes  | Greater than 5 (mi.)           |
| Any other fresh water well or spring   | Greater than 5 (mi.)           |
| Incorporated municipal boundaries or a defined municipal fresh water well field  | Greater than 5 (mi.)           |
| A wetland  | Greater than 5 (mi.)           |
| A subsurface mine  | Greater than 5 (mi.)           |
| An (non-karst) unstable area   | Greater than 5 (mi.)           |
| Categorize the risk of this well / site being in a karst geology   | Low                            |
| A 100-year floodplain  | Greater than 5 (mi.)           |
| Did the release impact areas not on an exploration, development, production, or storage site                               | No                             |

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

|   |     |
|---|-----|
| Requesting a remediation plan approval with this submission   | Yes |
| Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC. |     |
| Have the lateral and vertical extents of contamination been fully delineated  | Yes |
| Was this release entirely contained within a lined containment area   | No  |

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

|   |       |
|---|-------|
| Chloride (EPA 300.0 or SM4500 Cl B)         | 15100 |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) | 17.6  |
| GRO+DRO (EPA SW-846 Method 8015M)           | 17.6  |
| BTEX (EPA SW-846 Method 8021B or 8260B)     | 0.1   |
| Benzene (EPA SW-846 Method 8021B or 8260B)  | 0     |

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

|   |            |
|---|------------|
| On what estimated date will the remediation commence                        | 04/11/2024 |
| On what date will (or did) the final sampling or liner inspection occur     | 04/17/2024 |
| On what date will (or was) the remediation complete(d)                      | 04/18/2024 |
| What is the estimated surface area (in square feet) that will be reclaimed  | 3775       |
| What is the estimated volume (in cubic yards) that will be reclaimed        | 560        |
| What is the estimated surface area (in square feet) that will be remediated | 3775       |
| What is the estimated volume (in cubic yards) that will be remediated       | 560        |

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

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

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 4

Action 293215

**QUESTIONS (continued)**

|  |                |  |
|--|----------------|--|
| Operator:<br>COG PRODUCTION, LLC<br>600 W. Illinois Ave<br>Midland, TX 79701 | OGRID:         | 217955   |
|  | Action Number: | 293215   |
|  | Action Type:   | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |
|  |                |  |

**QUESTIONS****Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

|   |  |
|---|--|
| (Select all answers below that apply.)  |  |
| (Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.) | Yes  |
| Which OCD approved facility will be used for <b>off-site</b> disposal                 | HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510] |
| <b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal     | Not answered.                                  |
| <b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state              | Not answered.                                  |
| <b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility          | Not answered.                                  |
| (Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)         | No   |
| (In Situ) Soil Vapor Extraction   | No   |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)     | No   |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)                    | No   |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)              | No   |
| Ground Water Abatement pursuant to 19.15.30 NMAC                                      | No   |
| OTHER (Non-listed remedial process)   | No   |

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

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

|  |  |
|--|--|
| I hereby agree and sign off to the above statement | Name: Christian LLuLL<br>Title: Project Manager<br>Email: christian.llull@tetrattech.com<br>Date: 12/11/2023 |
|--|--|

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

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

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

QUESTIONS, Page 5  
  
Action 293215

QUESTIONS (continued)

|  |  |
|--|--|
| Operator:<br><br>COG PRODUCTION, LLC<br>600 W. Illinois Ave<br>Midland, TX 79701 | OGRID:<br><br>217955   |
|  | Action Number:<br><br>293215   |
|  | Action Type:<br><br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

QUESTIONS

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

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

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

QUESTIONS, Page 6  
  
Action 293215

QUESTIONS (continued)

|  |  |
|--|--|
| Operator:<br>COG PRODUCTION, LLC<br>600 W. Illinois Ave<br>Midland, TX 79701 | OGRID:<br>217955   |
|  | Action Number:<br>293215   |
|  | Action Type:<br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

QUESTIONS

|  |                |
|--|----------------|
| Sampling Event Information                   |                |
| Last sampling notification (C-141N) recorded | {Unavailable.} |

|  |    |
|--|----|
| Remediation Closure Request  |    |
| Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed. |    |
| Requesting a remediation closure approval with this submission   | No |

**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 293215

CONDITIONS

|  |  |
|--|--|
| Operator:<br>COG PRODUCTION, LLC<br>600 W. Illinois Ave<br>Midland, TX 79701 | OGRID:<br>217955   |
|  | Action Number:<br>293215   |
|  | Action Type:<br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

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. | 1/19/2024      |
| 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.   | 1/19/2024      |
| bhall      | Submit a complete report through the OCD Permitting website by 4/19/2023.  | 1/19/2024      |