



October 9, 2023

District Supervisor
Oil Conservation Division, District 2
811 S. First St.
Artesia, New Mexico 88210

**Re: REVISED Release Characterization and Work Plan Addendum
ConocoPhillips (COG Operating LLC)
Illustrated Man Fee Com 1H Release
Unit Letter B, Section 2, Township 25 South, Range 28 East
Eddy County, New Mexico
2RP- 4320
Incident ID NAB1721930866**

Dear Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to assess and evaluate previous remedial actions connected with a historical incident associated with the Illustrated Man Fee Com 1H (API # 30-015-41025). The approximate release site coordinates are 32.166314°, -104.056595°, located in the Public Land Survey System (PLSS) Unit Letter B, Section 2, Township 25 South, Range 28 East, Eddy County, New Mexico (Site). The Site location is shown on Figures 1 and 2. The site is located on federal lands managed by the Bureau of Land Management (BLM).

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report (Appendix A), the release was discovered on July 26, 2017. The release occurred due to a valve on a flowline failing and approximately 25 bbls of produced water were released, in which 20 bbls were recovered by vacuum truck. The release footprint is located on a pad site for the High Net Federal #001 (API# 30-015-35602). The NMOCD received the initial C-141 on July 28, 2017, and subsequently assigned the release the Remediation Permit (RP) number 2RP-4320 and the Incident ID NAB1721930866.

The Illustrated Man Fee Com 1H (2RP-4320/NAB1721930866) is included in an Agreed Compliance Order ("ACO") with the NMOCD, related to unresolved releases from COPC's predecessor-in-interest ("COG"). The ACO required COPC to submit characterization and/or remediation plans with proposed timeframes for the ongoing corrective actions or remediations identified to the NMOCD no later than March 1, 2023. As of March 11, 2022, COPC has submitted characterization and remediation plans for all of the properties identified and owned. All documentation was submitted in accordance with ACO terms. These documents have been submitted to the NMOCD via CentreStack, a Secure Access & File Sharing platform, at the direction of Mr. Bradford Billings, NMOCD. Talon LPE (Talon) was initially contracted to perform the remediation activities. A Remediation and Closure Report was drafted by Talon. The Talon Closure was submitted as a portion of the ACO.

LAND OWNERSHIP

The Site is located on land owned by the Bureau of Land Management (BLM). This is a previously disturbed area; however the BLM will be notified prior to remedial action and a copy of this plan will be provided for review.

Tetra Tech

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Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com

SITE CHARACTERIZATION

A site characterization was performed and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, playa lakes, 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 within a New Mexico oil and gas production area.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within an 800-meter radius (approximately 1/2 mile) of the site. According to the NMOSE, there is one well within a 1 1/2 mile radius with a depth to water of 90'. The site is in an area of high karst potential. The site characterization data are shown in Appendix B.

ASSESSMENT, WORK PLAN, AND SAMPLING RESULTS

On August 22, 2017, COG personnel were onsite to evaluate and sample the release area. Three (3) sample trenches (T-1, T-2, and T-3) were installed in the release footprint to total depths of 24' below surface. Additionally, four (4) trenches (North, South, East, and West) were installed outside the release footprint to depths of 1.0' below surface in order to define the horizontal extents of the release. Selected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. The sampling results are summarized in Table 1. The trench locations are shown on Figure 3.

Results from the August 2017 site assessment are summarized in Table 1. Analytical results associated with the assessment were below TPH, benzene, and total BTEX RRAL's. However, several locations exceeded the RRAL for chloride. A summary of analytical results is included as Table 1.

Due to the lithology in the area which consists of silty sand and gypsum formations, on November 21, 2017, personnel returned to the site to assess background chloride concentrations in native soils. One (1) background boring (BG-1) was installed to a total depth of 40' bgs approximately 145 ft southwest of the release area. Selected samples were analyzed for chlorides by EPA method 300.0. Analytical results associated with the BG-1 location indicate that natural chloride concentrations range from a high of 8,056 mg/kg at 10 ft bgs to a low of 16.1 mg/kg from 0-1 ft bgs. Chloride concentrations indicate a natural trend, increasing with depth. The sampling results are summarized on Table 1. The borehole locations are indicated on Figure 3.

WORK PLAN APPROVAL

The data was evaluated and a Delineation Workplan was completed by Tetra Tech and submitted to NMOCD, on behalf of COG, via email in 2018. The same Workplan was resubmitted to NMOCD via email in January 2019. The Work Plan was approved by Mike Bratcher of the NMOCD on Wednesday, May 23, 2018, with stipulations as follows:

- *One foot excavation in the area identified as T-1, based on 8/22/17 sampling data.*
- *Notify the OCD District 2 office in the event proposed excavation depths are not achieved.*
- *Notify the OCD District 2 office once remedial activities have been scheduled.*
- *Federal sites will require like approval from BLM*

The Work Plan was approved by the NMOCD on May 23, 2018. Associated email correspondence is included in Appendix C.

REGULATORY FRAMEWORK

Based on the NMOCD plan approval, verified native background chloride concentrations, and previously established remedial action levels, the recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil are as follows:

Constituent	Site RRALs
Chloride	10,000 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 feet bgs) are as follows:

Constituent	Reclamation Requirement
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg
BTEX	50 mg/kg

REMEDIAL ACTIVITIES

On behalf of COG (ConocoPhillips), Talon LPE (Talon) executed remedial activities at the incident Site and subsequently submitted a Remediation and Closure Report dated January 18, 2019, which outlined the remedial activities completed. Per Talon's report, impacted soil in the vicinity of T-1 was excavated to a depth of 1.0 feet deep as approved by the NMOCD and BLM, with confirmation samples obtained per regulatory stipulations collected and analyzed for TPH, BTEX and chloride. A total of five (5) samples were collected from four (4) sidewall locations including North, South, East and West. The last sample was collected from the bottom of location T-1, and the samples were submitted to Cardinal to be analyzed for chlorides via EPA Method 4500.0. Analytical results associate with these five (5) confirmations sample locations were below the approved RRALs. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix D.

All excavated soil was transported to R360, a NMOCD approval soil waste disposal facility. The excavated area was backfilled with topsoil and left in rough condition to approximate natural surface deviations.

Based on the figures and text of the report, the impacted soil in the vicinity of T-2 were reportedly excavated to 4.0 feet deep pursuant to the approved work plan. However, there were no confirmation samples collected during this remedial action, and there were no confirmation samples collected for the area. Only the previously mentioned sidewall and floor samples were indicated in the Talon Closure Report.

TALON CLOSURE REQUEST

Talon LP submitted the Remediation and Closure Report dated January 18, 2019, in which described remedial actions consisted of the removal of impacted soils. As written in the report, impacted soils in the vicinity of T-1 were excavated to a depth of 1-foot; and impacted soils in the vicinity of T-2 were reportedly excavated to a depth of 4-feet. The excavated area was reportedly backfilled with topsoil. According to the figures, only the western area was sampled for closure/confirmation purposes. This report was submitted as a portion of the hCXO ACO list submittals.

The Remediation and Closure Report was rejected by NMOCD on November 29, 2022, under the current review of documents submitted through EMNRD CentreStack, referred to as Internal Manual Incident File Supporting Documentation (ENV) (IM-BNF).

The OCD rejected the submitted application for incident ID NAB1721930866, for the following reasons:

- **Work detailed in the provided closure report did not follow the approved work plan. The area excavated (Figure 3) did not match the proposed excavated area (Figure 4).**

- **Work will need to be done in accordance with 19.15.29 NMAC.**
- **Please submit a work plan or closure report to the OCD by March 1, 2023.**

An extension for incident ID (NAB1721930866) was submitted to the NMOCD on March 2, 2023. The extension was approved on March 9, 2023, for a due date of May 30, 2023. Regulatory Correspondence is included in Appendix C.

ADDITIONAL SITE ASSESSMENT AND SAMPLE RESULTS (MARCH 2023)

Based on the NMOCD rejection, COP requested that Tetra Tech reevaluate the incident site. Based on the rejection of the Talon Remediation and Closure Report, TT personnel returned to the site on March 13, 2023 to evaluate whether or not Talon remediated areas of trench locations T-2 and T-3. Hand auger sampling (AH) was initially scoped for confirmation, but shallow auger refusal necessitated trenching. Sample location nomenclature (AH-X) was preserved to reduce confusion.

TT personnel returned to the Site on March 14, 2023, with a backhoe to complete sampling within the areas reportedly remediated by Talon. Eight (8) trenches were completed to 4' BGS. A total of thirty-two (32) samples were collected and submitted to Cardinal Laboratories and analyzed for chlorides via EPA Method 4500.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. Photographic documentation of the additional site delineation is presented in Appendix E. Copies of the laboratory analytical reports and chain-of-custody documentation are included in Appendix D. Sampling locations are shown in Figure 5.

Results from the March 2023 site assessment events are summarized in Table 3. Analytical results associated with the AH-2, AH-3, AH-4, AH-5, AH-6 and AH-7 locations (installed/trenched inside the purported previously excavated area) exceeded the reclamation RRAL of 600 mg/kg chloride down to 4' bgs. All analytical results were below the TPH, benzene and Total BTEX Site RRALs of 100 mg/kg, 10 mg/kg and 50 mg/kg, respectively.

MAY 2023 WORK PLAN

A Release Characterization and Remediation Work Plan (Work Plan) describing the additional assessment activities and results was prepared by Tetra Tech on behalf of ConocoPhillips and submitted to the NMOCD via the online fee portal on May 8, 2023. Additional assessment sampling locations are shown in Figure 5. Analytical results from the March 2023 assessment activities are summarized in Table 3.

The Work Plan was rejected by Ashley Maxwell of the NMOCD via email on May 9, 2023. A copy of the regulatory correspondence is included in Appendix C. The reason for the rejection was as follows:

- **In the rejection dated November 29, 2022, it states that work will need to be done in accordance with 19.15.29 NMAC.**
- **The release is located in an area of high karst and therefore subject to the most stringent standards in Table 1 19.15.29.12 NMAC.**
- **Additional delineation, vertical and horizontal, is required to determine the full extent of the chloride impact of the release.**
- **Submit a work plan via the OCD permitting portal by August 18, 2023.**

On September 8, 2023, Tetra Tech, on behalf of COP, requested a 60-day extension to complete additional assessment and associated reporting for the Illustrated Man Fee Com 1H Release Site (NAB1721930866). The extension request was approved by the NMOCD on September 11, 2023. In accordance with the approved extension request, the due date for the Revised Work Plan is October 17, 2023. Documentation of associated regulatory correspondence is include in Appendix C.

ADDITIONAL SITE ASSESSMENT AND DELINEATION (SEPTEMBER 2023)

A conference call between Tetra Tech representatives and NMOCD representatives was held on September 8, 2023. In the call, Ashley Maxwell of the NMOCD reviewed the previous Work Plan, the previously installed background boring, and the work completed to date. Based on the data collected to date, a variance request was submitted to the OCD via email on September 11, 2023 to delineate to a slightly higher chloride concentration, based on the previously collected data.

Tetra Tech initially requested a variance to vertically delineate chloride to a minimum of 1,000 mg/kg based on previous background sampling conducted and the presence of native soils containing naturally occurring salts. No response has been received. Regulatory Correspondence is included in Appendix C.

Based on the call conclusions (and rejection of the May 2023 Work Plan), TT personnel returned to the site on September 11, 2023, to conduct additional soil sampling to full delineate the subsurface impacts of the incident site. Two (2) borings (BH-23-2 and BH-23-3) were installed within the release footprint and four (4) borings (BH-23-4 through BH-23-7) were installed outside the release footprint with a truck mounted air rotary rig.

One (1) background borehole (BG-23-1) was installed in the adjacent pasture to a total depth of 25' bgs in order to evaluate chloride concentrations in native soils. A total of forty-five (45) samples were collected and submitted to Cardinal Laboratories and analyzed for selected constituents. The background boring samples were only analyzed for chlorides via SM 4500.0. The remainder of the samples were analyzed for chlorides via SM 4500.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. Photographic documentation of the additional site delineation is presented in Appendix E. Copies of the laboratory analytical reports and chain-of-custody documentation are included in Appendix D. Boring locations are shown in Figure 6.

SUMMARY OF SAMPLING RESULTS

Results from the March 2023 site assessment events are summarized in Table 4. Analytical results associated with sample locations BH-23-2 and BH-23-3 mirror the results from AH-2 and AH-3 from the previous investigation, with chloride concentrations below limits in the upper intervals, but beginning to exceed the most stringent chloride RRAL between 4 and 9 feet bgs and the continuing to slightly increase to 25 feet, respectively. All other analytical results were below the Site RRALs for all constituents.

The samples collected from the additional background boring location, BG-23-1, exceeded chloride concentrations of 600 mg/kg from 17' to 25' and the concentrations also increase with depth. These results mirror the previous background data and confirm the existence of natural background levels of chloride at the site at depth. All analytical results for the additional horizontal delineation boring locations were below the chloride, TPH, benzene and Total BTEX reclamation requirements of 600 mg/kg, 100 mg/kg, 10 mg/kg and 50 mg/kg, respectively.

REVISED REMEDIATION WORK PLAN

Based on the previously approved Work Plan and additional analytical results from the 2023 site assessments, ConocoPhillips proposes to remove the remaining impacted material as shown in Figure 7. Impacted soils will be excavated to a maximum depth of 4 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation is below the Site RRALs. Heavy equipment (backhoe and track hoe) will be utilized to excavate areas outside the immediate vicinity of pressurized lines and will come no more than 4 feet from any pressurized lines.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation bottom and sidewall samples will be collected for verification of remedial activities, and analyzed for TPH, BTEX, and chlorides. In accordance with subsection D of 19.15.29.12 NMAC, the responsible party will notify the appropriate division district office prior to conducting confirmation sampling. The estimated volume of material to be remediated is approximately 544 cubic yards.

VARIANCE REQUEST

After characterization of this release, ConocoPhillips proposes to leave impacted soils (with concentrations greater than those specified in Table I) located below four (4) feet bgs in place. The release impact is fully delineated to natural background and groundwater in this area is established as deeper than 55 feet bgs. The Site is in an area with naturally occurring variations of mineral salts in the soils, as evidenced by the collected data. The concentrations observed in the data are natural variations of chloride at depth. Tetra Tech requests a revised variance to vertically delineate chloride to 1,200 mg/kg based on the results of previous background sampling events.

Thus, in accordance with 19.15.29.14(A) NMAC, ConocoPhillips requests a variance for the placement of a liner within the excavated area. A 20-mil reinforced poly liner will be installed and properly seated throughout the base of the excavation (at 4 feet below surrounding grade). The liner will provide an engineering control that will serve as a barrier and inhibit the downward migration of residual constituents.

ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, ConocoPhillips proposes the following alternative confirmation sampling plan to adhere with NMOCD requirements. The proposed confirmation sample locations are depicted in Figure 8. Approximately six (6) confirmation floor samples and four (4) confirmation sidewall samples are proposed for verification of remedial activities in the proposed excavation area. The proposed excavation encompasses an area of approximately 3,675 square feet.

These confirmation sidewall and floor samples will be representative of no more than approximately 400 square feet of excavated area. Confirmation samples will be sent to Cardinal Laboratories for analysis of chloride via EPA Method SM4500Cl-B, BTEX via EPA Method 8021B, and TPH via EPA Method 8015M. Once results are received, the excavation will then be backfilled with clean material to pre-release surface grade.

SITE RECLAMATION AND RESTORATION PLAN

The majority of the pad area has been previously reclaimed. This remedial action will provide reclamation to the remainder of the footprint. Once acceptable confirmation sample results are received, the excavation area will then be backfilled with clean topsoil to surface grade. The backfilled areas within the former pad area will be seeded to aid in revegetation. Based on the location of the Site, the seed mixture for LPC Sand/Shinnery Sites will be used for seeding and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the Bureau of Land Management (BLM) will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate.

CONCLUSION

ConocoPhillips proposes to begin additional remediation activities at the Site within 90 days of NMOCD plan approval. Upon Completion of the proposed work, a final closure report detailing the remediation activities and the results of the confirmation sampling will be submitted to NMOCD. The completed C-141 forms are enclosed as Appendix A.

Release Characterization and Remediation Work Plan
October 9, 2023

ConocoPhillips

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

Sincerely,
Tetra Tech, Inc.



Nicholas M. Poole
Project Lead



Christian M. Llull, P.G.
Program Manager

cc:
Ms. Shelly Taylor, BLM

LIST OF ATTACHMENTS

Figures:

- Figure 1 – Site Location Map
- Figure 2 – Topographic Map
- Figure 3 – Approximate Release Extent and Site Assessment (2017)
- Figure 4 – Remediation Extent and Confirmation Sample Locations (Talon 2018)
- Figure 5 – Approximate Release Extent and Site Assessment (2023)
- Figure 6 – Additional Site Assessment (2023)
- Figure 7 – Proposed Remediation Extent
- Figure 8 – Alternative Confirmation Sampling Plan

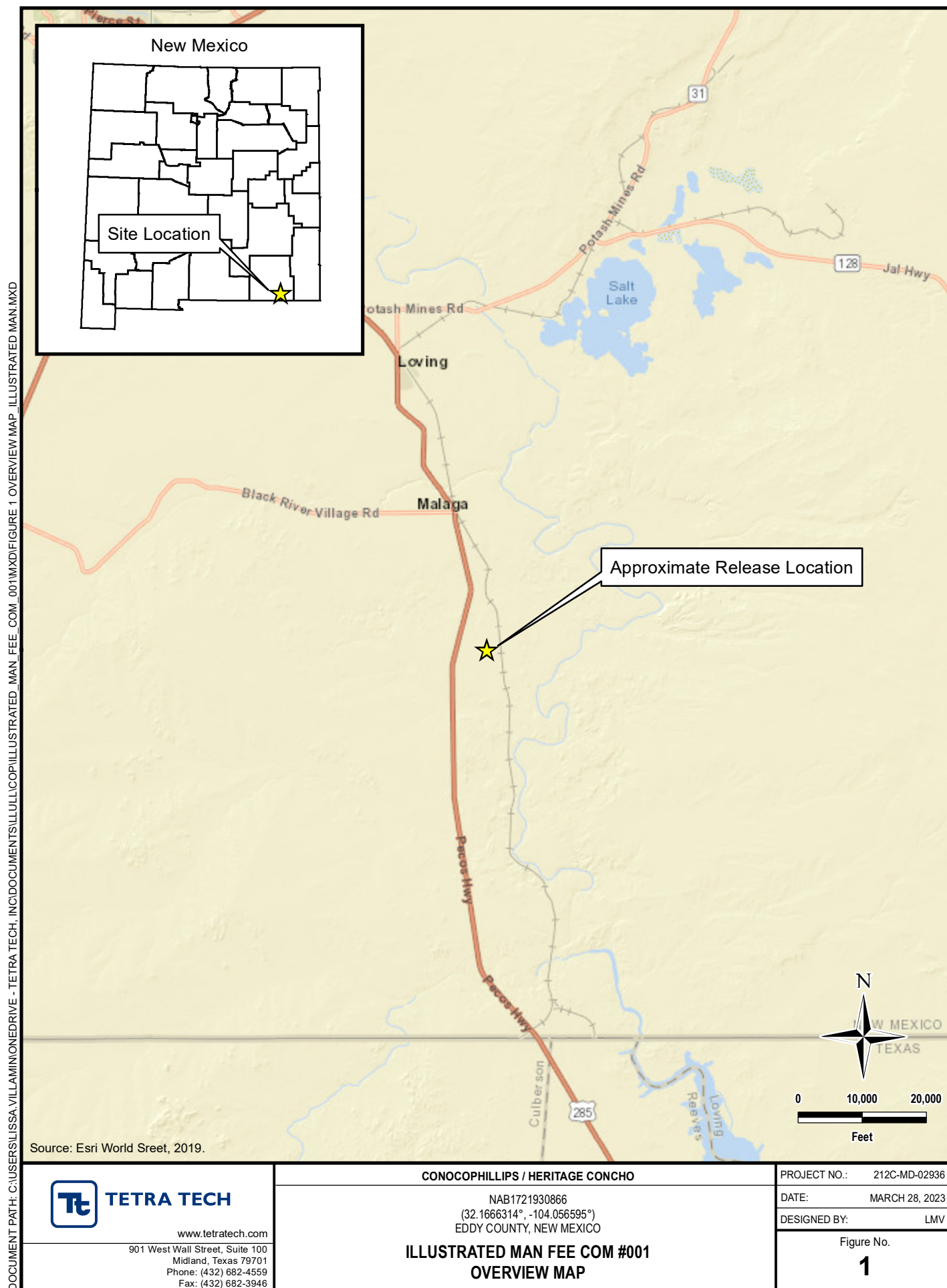
Tables:

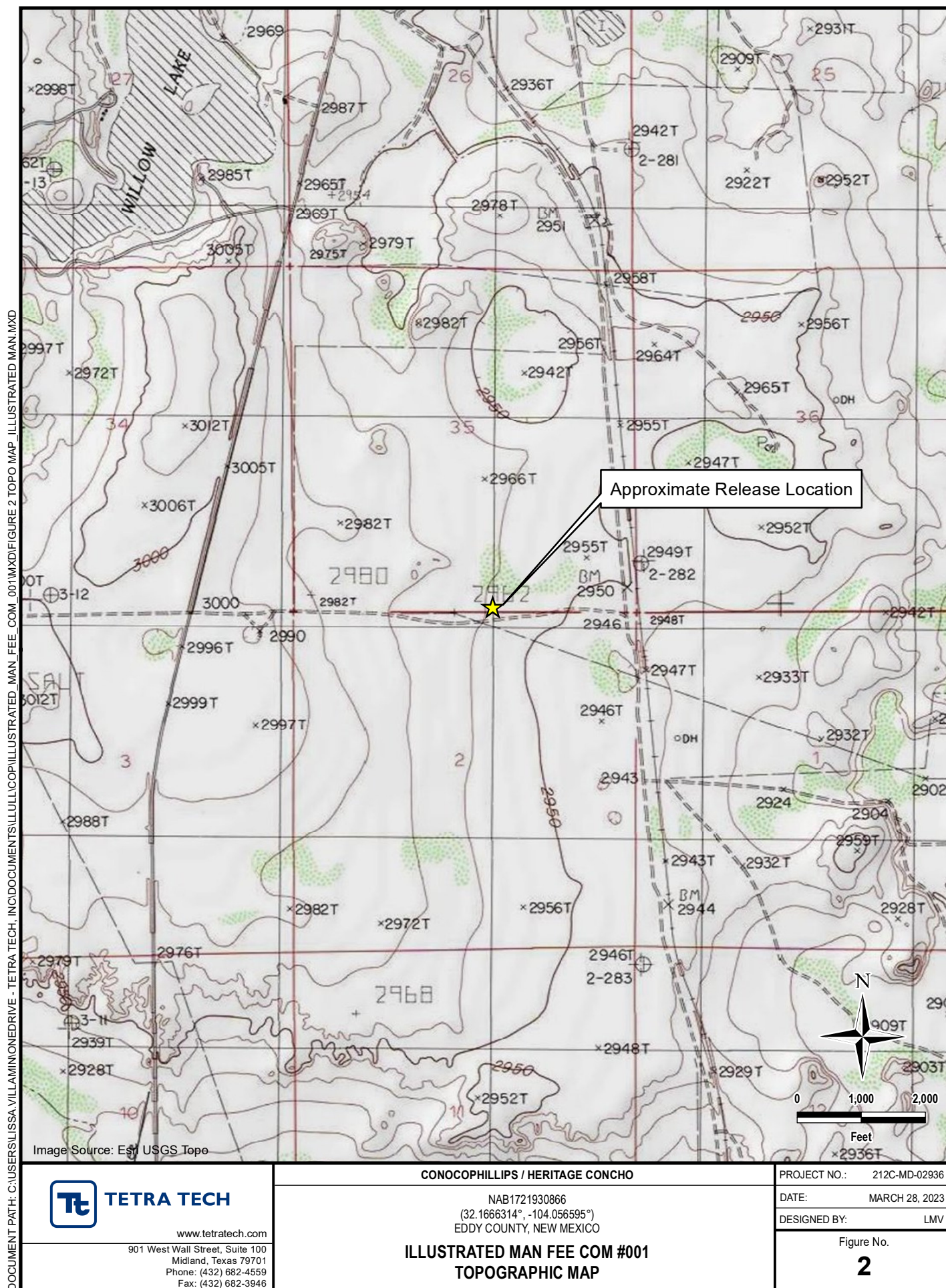
- Table 1 – Summary of Analytical Results – 2017 Soil Assessment
- Table 2 – Summary of Analytical Results – 2018 Soil Remediation
- Table 3 – Summary of Analytical Results – 2023 Soil Assessment
- Table 4 – Summary of Analytical Results – 2023 Additional Soil Assessment

Appendices:

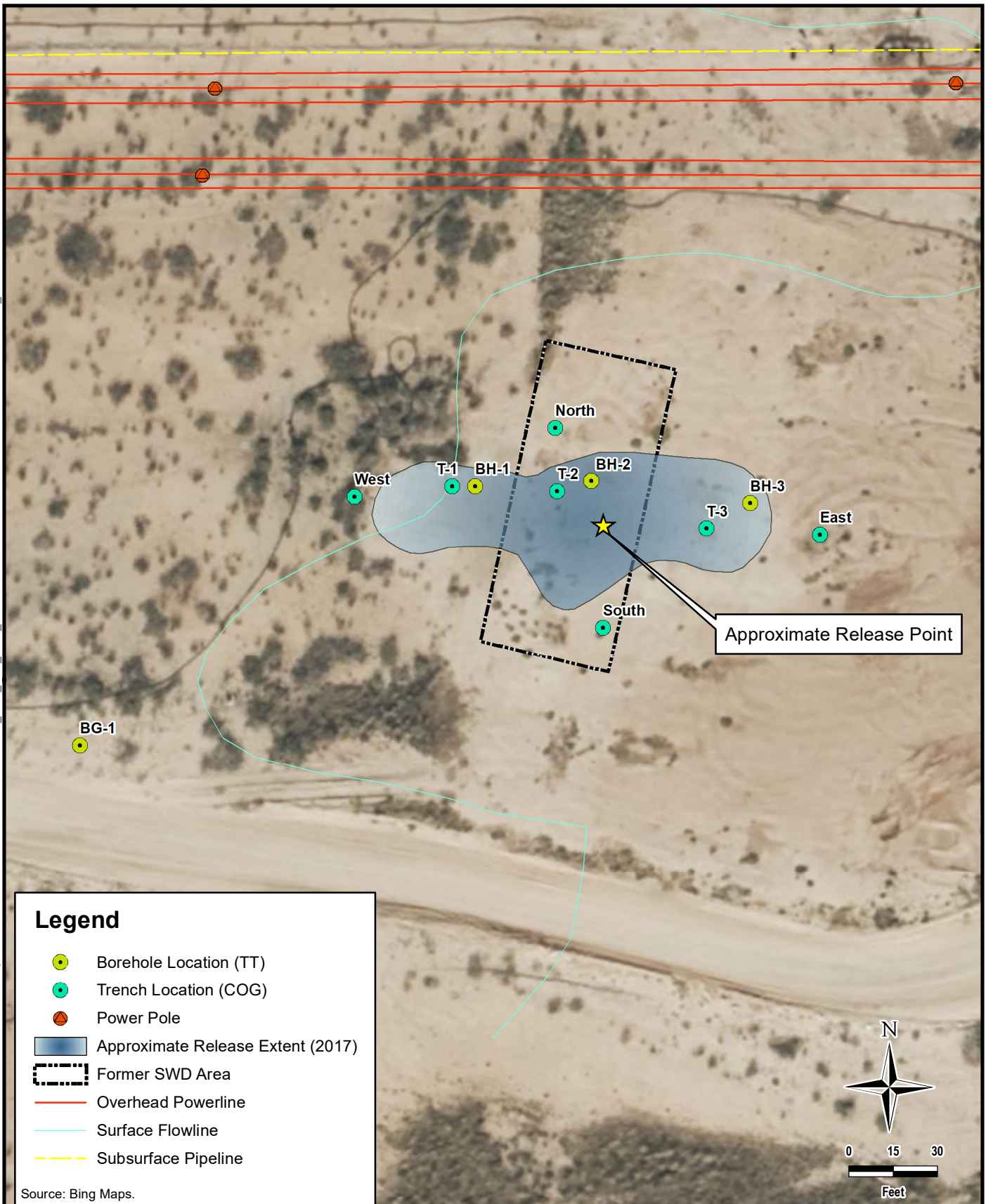
- Appendix A – C-141 Forms
- Appendix B – Site Characterization Data
- Appendix C – Regulatory Correspondence
- Appendix D – Laboratory Analytical Data
- Appendix E – Photographic Documentation

FIGURES





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NAB1721930866
(32.1666314°, -104.056595°)
EDDY COUNTY, NEW MEXICO

ILLUSTRATED MAN FEE COM #001
APPROXIMATE RELEASE EXTENT SITE ASSESSMENT (2017)

PROJECT NO.: 212C-MD-02936

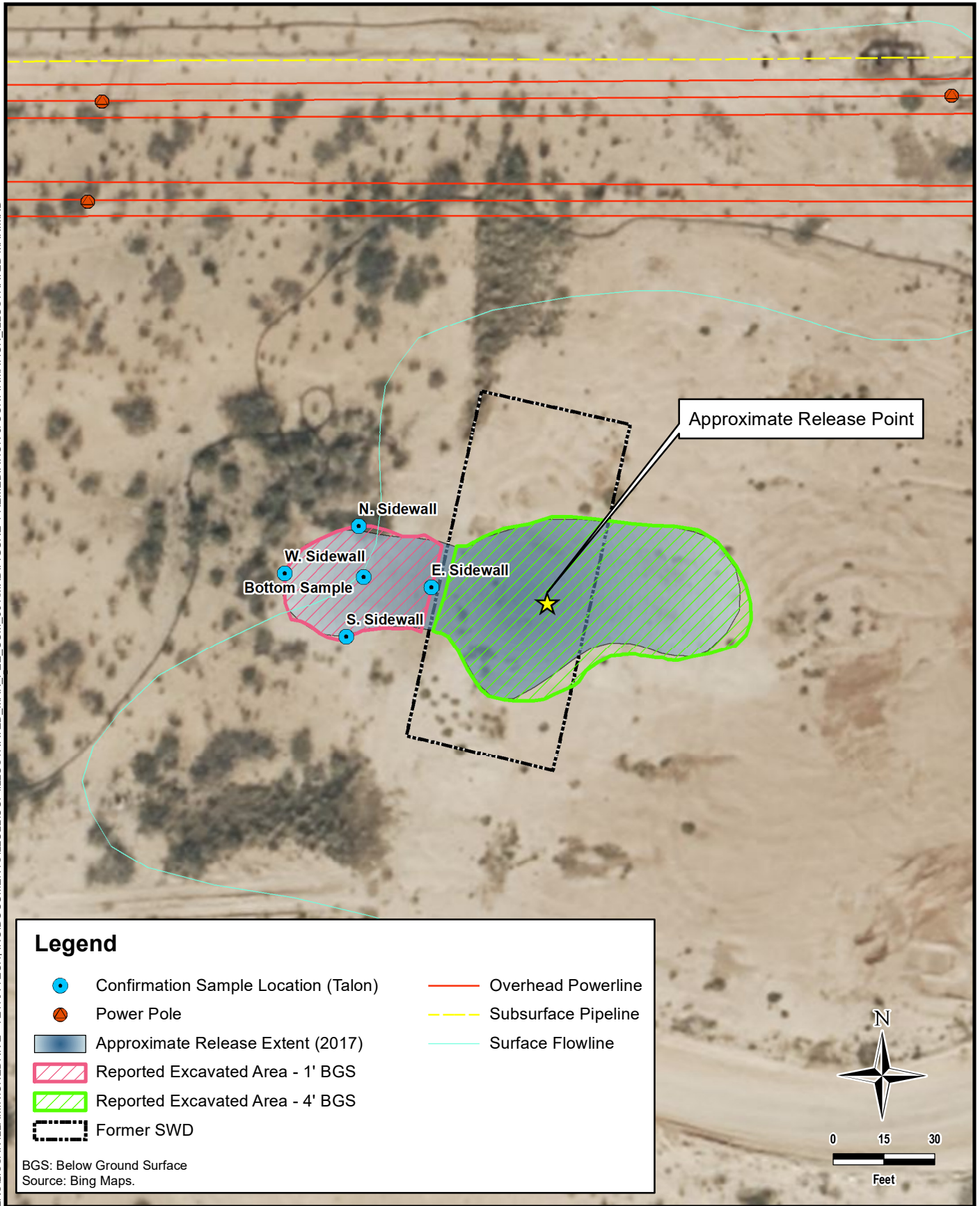
DATE: MARCH 28, 2023

DESIGNED BY: LMV

Figure No.

3

DOCUMENT PATH: C:\USERS\LISSA.VILLAMONEDRIVE - TETRA TECH, INC\DOCUMENTS\ILLUSTRATED MAN FEE COM 001\MXD\FIGURE 4 REMEDIATION & CONFIRMATION_ILLUSTRATED MAN.MXD



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EDDY COUNTY, NEW MEXICO

**ILLUSTRATED MAN FEE COM #001
REMEDATION EXTENT AND CONFIRMATION SAMPLE LOCATIONS (2018)**

PROJECT NO.: 212C-MD-02936

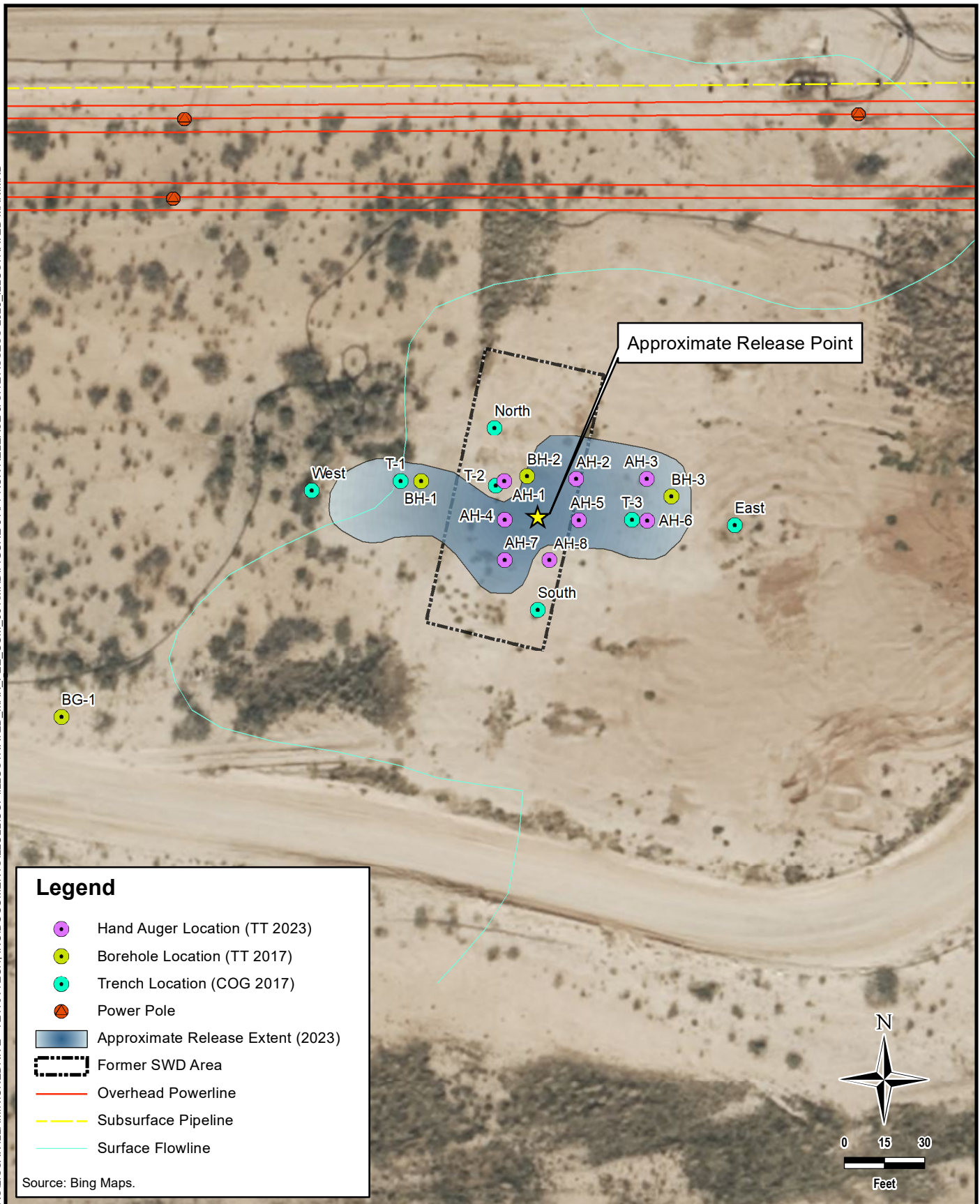
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(32.1666314°, -104.056595°)
EDDY COUNTY, NEW MEXICO

ILLUSTRATED MAN FEE COM #001
APPROXIMATE RELEASE EXTENT AND SITE ASSESSMENT (2023)

PROJECT NO.: 212C-MD-02936

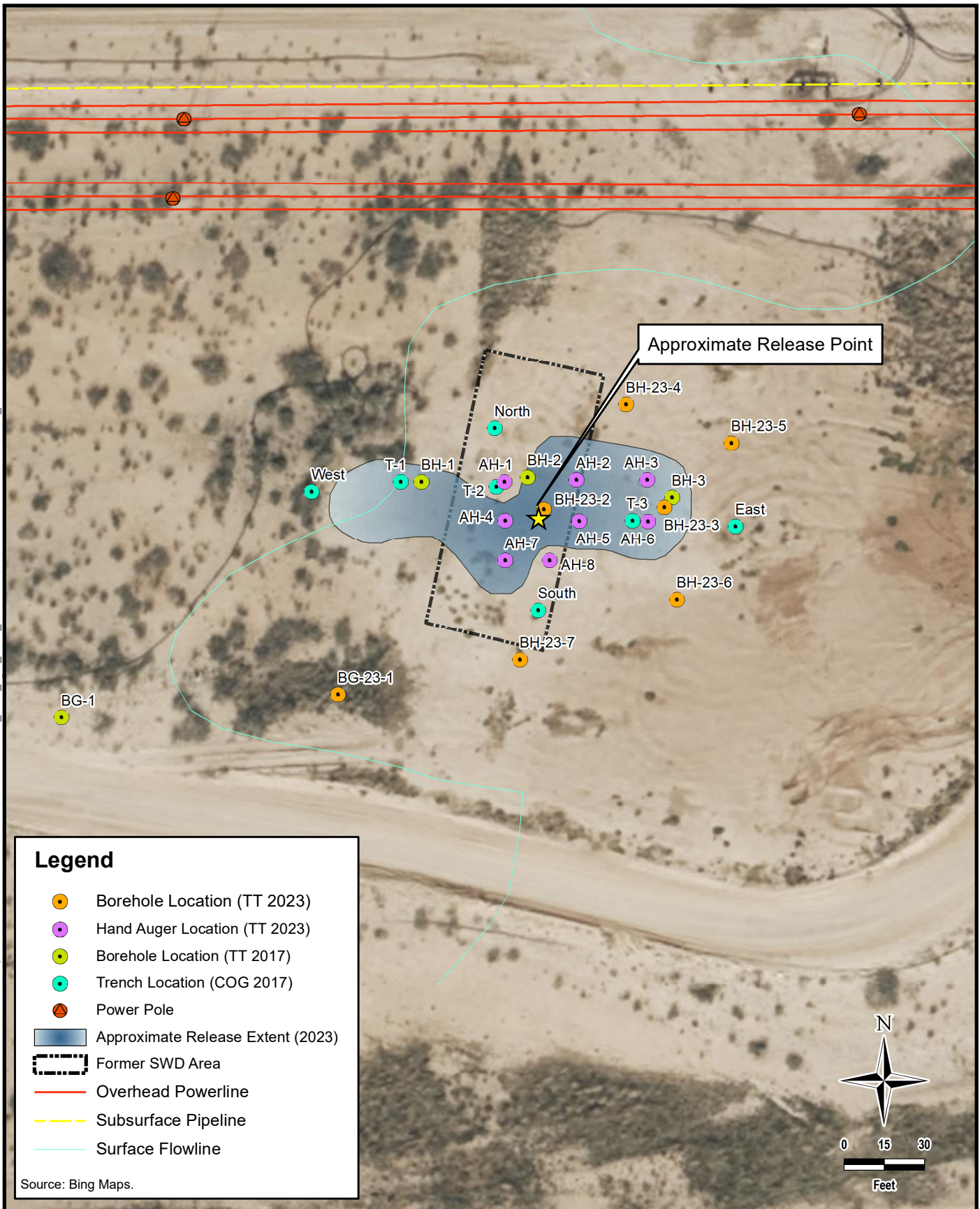
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NAB1721930866
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EDDY COUNTY, NEW MEXICO

**ILLUSTRATED MAN FEE COM #001
ADDITIONAL SITE ASSESSMENT (2023)**

PROJECT NO.: 212C-MD-02936

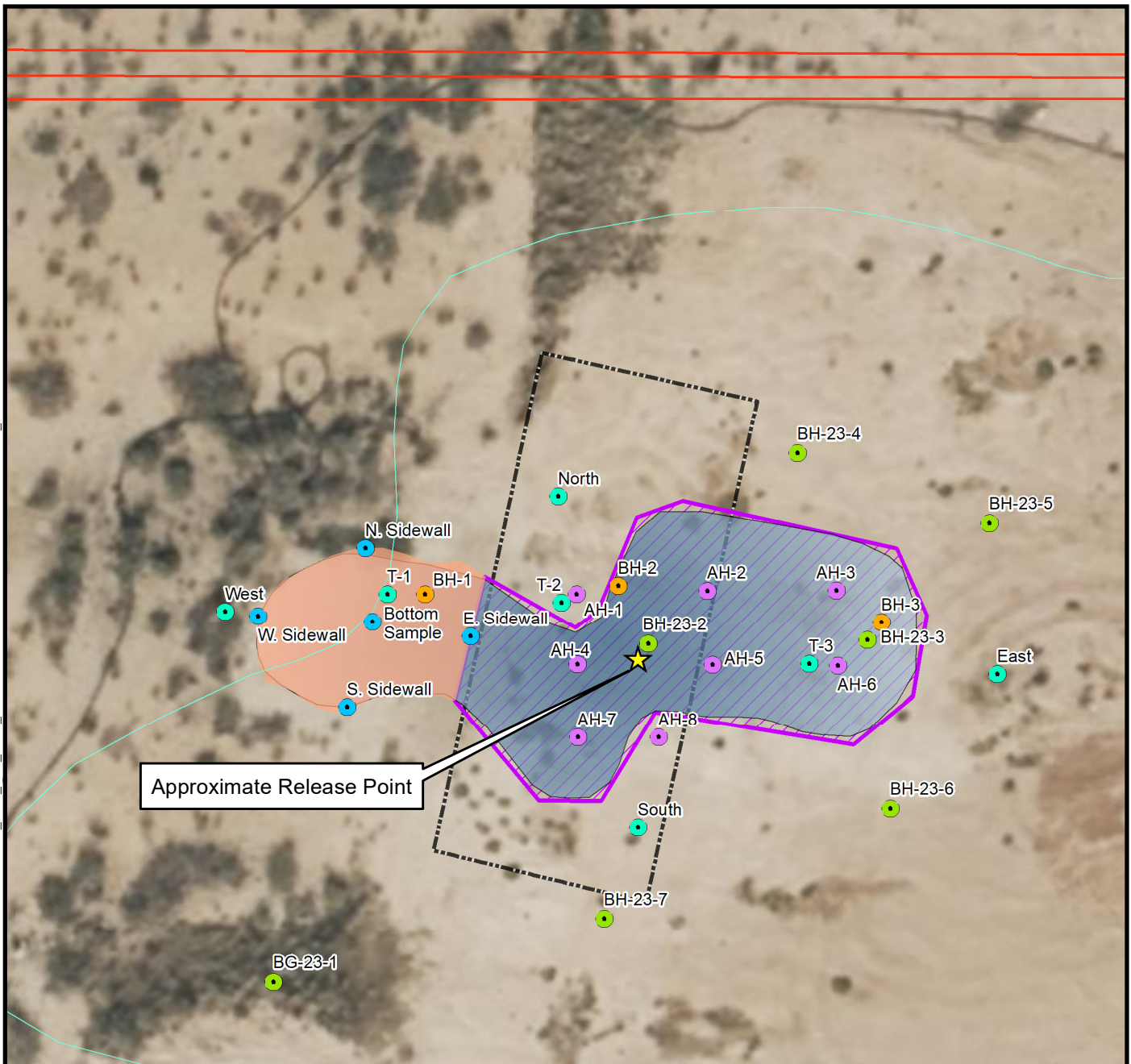
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Figure No.

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Legend

- Borehole Location (TT2023)
- Hand Auger Location (TT 2023)
- Confirmation Sample Location (2018)
- Borehole Location (TT 2017)
- Trench Location (2017)
- Power Pole
- Approximate Release Extent (2023)
- Previously Remediated Area (2018)
- Proposed Excavation - 4' BGS with Liner
- Former SWD Area
- Overhead Powerline
- Surface Flowline

BGS: Below Ground Surface
Source: Bing Maps.



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CONOCOPHILLIPS / HERITAGE CONCHO

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EDDY COUNTY, NEW MEXICO

**ILLUSTRATED MAN FEE COM #001
PROPOSED REMEDIATION EXTENT**

PROJECT NO.: 212C-MD-02936

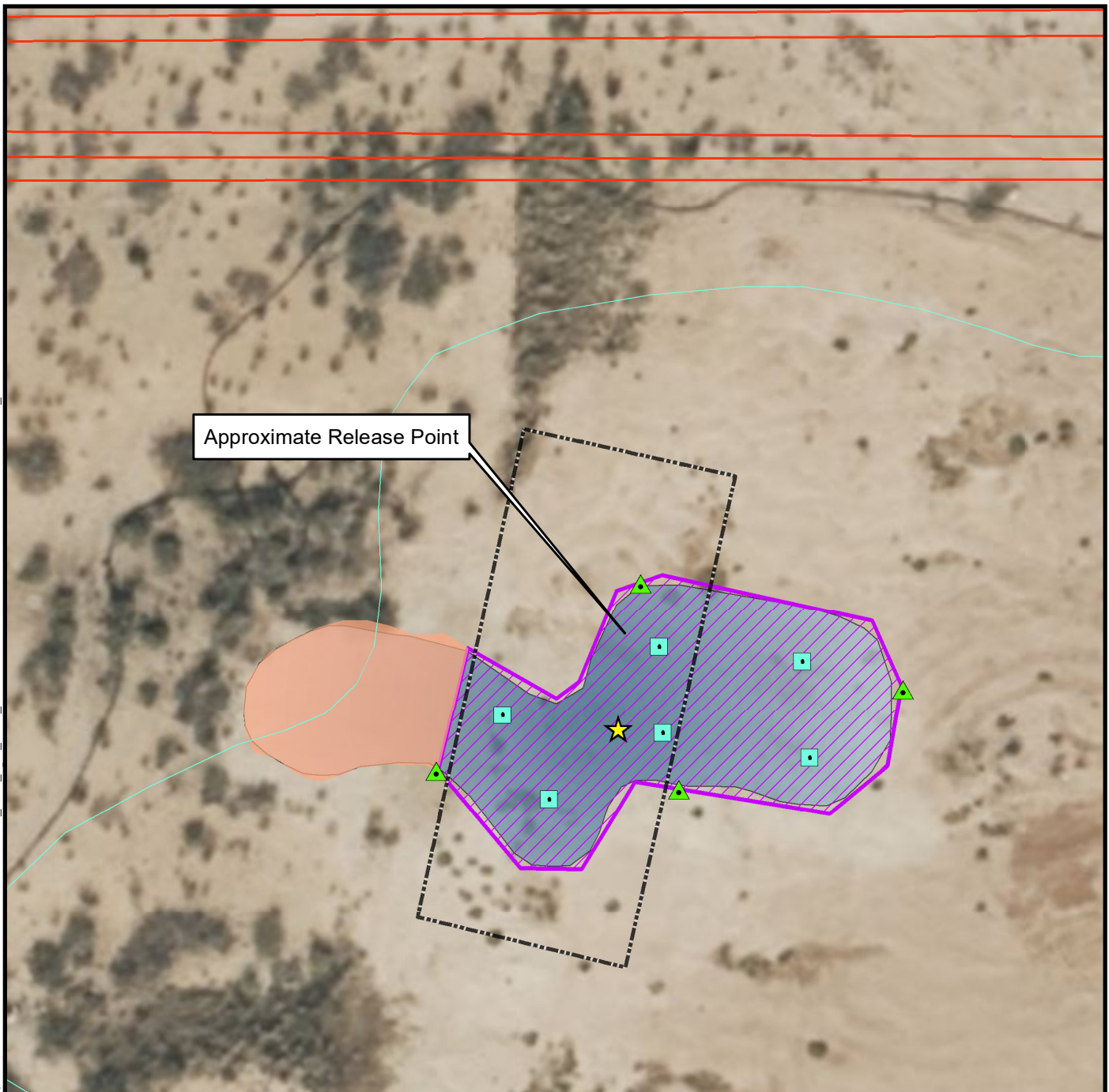
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Legend

- | | |
|---------------------------------------|---|
| Floor Confirmation Sample Location | Proposed Excavation - 4' BGS with Liner |
| Sidewall Confirmation Sample Location | Previously Remediated Area (2018) |
| Power Pole | Former SWD Area |
| Approximate Release Extent (2023) | Overhead Powerline |
| | Surface Flowline |

BGS: Below Ground Surface
Source: Bing Maps.



0 15 30
Feet



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**ILLUSTRATED MAN FEE COM #001
ALTERNATIVE CONFIRMATION SAMPLING PLAN**

PROJECT NO.: 212C-MD-02936

DATE: SEPTEMBER 19, 2023

DESIGNED BY: LMV

Figure No.

8

TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
2017 SOIL ASSESSMENT- (NAB1721930866)
CONOCOPHILLIPS
ILLUSTRATED MAN FEE COM #001
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth ft. bgs	Chloride ¹		BTEx ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEx		GRO		DRO		ORO		Total TPH	
			mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q
T-1	8/22/2017	Surface	9,270		<0.00202	U	<0.00202	U	<0.00202	U	<0.00202	U	<0.00202	U	<15.0	U	<15.0	U	<15.0	U	<15.0	U
		1	9,540		<0.00201	U	<0.00201	U	<0.00201	U	0..00253		0.00253		<15.0	U	<15.0	U	<15.0	U	<15.0	U
		2	355		<0.00201	U	<0.00201	U	<0.00201	U	<0.00201	U	<0.00201	U	<15.0	U	<15.0	U	<15.0	U	<15.0	U
		3	177		<0.00200	U	<0.00200	U	<0.00200	U	<0.00200	U	<0.00200	U	<14.9	U	<14.9	U	<14.9	U	<14.9	U
		4	1,200		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		6	5,850		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		8	1,450		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		10	168		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		12	430		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		14	539		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		16	572		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		18	573		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		20	776		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		22	529		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		24	614		<0.00199	U	<0.00199	U	<0.00199	U	<0.00199	U	<0.00199	U	<14.9	U	191		23.7		215	
BH-1	11/21/2017	0-1	20.2		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		2-3	52.6		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		4-5	810		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		6-7	920		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		9-10	1,060		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		14-15	714		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		19-20	772		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		24-25	864		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		29-30	1,110		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		34-35	1,040		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		39-40	1,280		NS		NS		NS		NS		NS		NS		NS		NS		NS	
T-2	8/22/2017	Surface	3,170		<0.00200	U	<0.00200	U	<0.00200	U	<0.00200	U	<0.00200	U	<14.9	U	191		23.7		215	
		1	5,940		<0.00202	U	<0.00202	U	<0.00202	U	<0.00202	U	<0.00202	U	<15.0	U	<15.0	U	<15.0	U	<15.0	U
		2	3,590		<0.00199	U	<0.00199	U	<0.00199	U	<0.00199	U	<0.00199	U	<15.0	U	<15.0	U	<15.0	U	<15.0	U
		3	1,390		<0.00199	U	<0.00199	U	<0.00199	U	<0.00199	U	<0.00199	U	<15.0	U	<15.0	U	<15.0	U	<15.0	U
		4	1,720		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		6	342		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		8	203		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		10	1,050		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		12	1,160		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		14	840		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		16	905		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		18	1,010		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		20	1,500		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		22	823		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		24	972		<0.00198	U	<0.00198	U	<0.00198	U	<0.00198	U	<0.00198		<15.0	U	<15.0	U	<15.0	U	<15.0	U

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
2017 SOIL ASSESSMENT- (NAB1721930866)
CONOCOPHILLIPS
ILLUSTRATED MAN FEE COM #001
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth ft. bgs	Chloride ¹		BTEx ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEx		GRO		DRO		ORO		Total TPH	
			mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q
BH-2	11/21/2017	0-1	4,700		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		2-3	2,780		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		4-5	453		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		9-10	531		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		14-15	590		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		19-20	797		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		24-25	993		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		29-30	1,010		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		34-35	1,060		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		39-40	1,010		NS		NS		NS		NS		NS		NS		NS		NS		NS	
T-3	8/22/2017	Surface	2,740		<0.00201	U	<0.00201	U	<0.00201	U	<0.00201	U	<0.00201	U	<14.9	U	75		<14.9	U	75	
		1	2,050		<0.00199	U	<0.00199	U	<0.00199	U	<0.00199	U	<0.00199	U	<15.0	U	<15.0	U	<15.0	U	<15.0	U
		2	625		<0.00198	U	<0.00198	U	<0.00198	U	<0.00198	U	<0.00198	U	<15.0	U	<15.0	U	<15.0	U	<15.0	U
		3	139		<0.00201	U	<0.00201	U	<0.00201	U	<0.00201	U	<0.00201	U	<15.0	U	<15.0	U	<15.0	U	<15.0	U
		4	531		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		5	246		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		6	450		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		8	713		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		10	722		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		12	472		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		16	960		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		18	1,100		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		20	1,000		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		22	753		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		24	746		<0.00202	U	<0.00202	U	<0.00202	U	<0.00202	U	<0.00202		<15.0	U	<15.0	U	<15.0	U	<15.0	U
BH-3	11/21/2017	0-1	3,300		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		2-3	3,120		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		4-5	106		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		6-7	446		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		9-10	475		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		14-15	919		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		19-20	999		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		24-25	1,160		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		29-30	1,220		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		34-35	1,210		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		39-40	1,070		NS		NS		NS		NS		NS		NS		NS		NS		NS	

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
2017 SOIL ASSESSMENT- (NAB1721930866)
CONOCOPHILLIPS
ILLUSTRATED MAN FEE COM #001
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth ft. bgs	Chloride ¹		BTEx ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEx		GRO		DRO		ORO		Total TPH	
			mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q
BG-1	11/21/2017	0-1	16.1		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		5	105		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		10	8056		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		15	98.4		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		20	328		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		25	623		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		30	759		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		35	967		NS		NS		NS		NS		NS		NS		NS		NS		NS	
		40	1,120		NS		NS		NS		NS		NS		NS		NS		NS		NS	
NORTH	8/22/2017	Surface	77.8		<0.00201	U	<0.00201	U	<0.00201	U	<0.00201	U	<0.00201	U	<15.0	U	<15.0	U	<15.0	U	<15.0	U
		1	<4.99	U	<0.00202	U	<0.00202	U	<0.00202	U	<0.00202	U	<0.00202	U	<15.0	U	<15.0	U	<15.0	U	<15.0	U
South	8/22/2017	Surface	1420.0		<0.00200	U	<0.00200	U	<0.00200	U	<0.00200	U	<0.00200	U	15	U	22.3		<15.0	U	22.3	
		1	634.0		<0.00200	U	<0.00200	U	<0.00200	U	<0.00200	U	<0.00200	U	<15.0	U	<15.0	U	<15.0	U	<15.0	U
East	8/22/2017	Surface	4720.0		<0.00200	U	<0.00200	U	<0.00200	U	<0.00200	U	<0.00200	U	<15.0	U	<15.0	U	<15.0	U	<15.0	U
		1	1750.0		<0.00201	U	<0.00201	U	<0.00201	U	<0.00201	U	<0.00201	U	<15.0	U	<15.0	U	<15.0	U	<15.0	U
West	8/22/2017	Surface	<4.95	U	<0.00202	U	<0.00202	U	<0.00202	U	<0.00202	U	<0.00202	U	<15.0	U	<15.0	U	<15.0	U	<15.0	U
		1	<4.97	U	<0.00200	U	<0.00200	U	<0.00200	U	<0.00200	U	<0.00200	U	<15.0	U	<15.0	U	<15.0	U	<15.0	U

NOTES:

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

QUALIFIERS:

U Analyte was not detected

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
2017 SOIL REMEDIATION- (NAB1721930866)
CONOCOPHILLIPS
ILLUSTRATED MAN FEE COM #001
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride ¹	
		ft. bgs	mg/kg	Q
S. Sidewall	11/19/2018	0.5	32	
E. Sidewall	11/19/2018	0.5	80	
W. Sidewall	11/19/2018	0.5	48	
N. Sidewall	11/19/2018	0.5	208	
Bottom	11/19/2018	1	192	

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

1 Method SM4500Cl-B

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
2023 SOIL ASSESSMENT- (NAB1721930866)
CONOCOPHILLIPS
ILLUSTRATED MAN FEE COM #001
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEx ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEx		Gro		Dro		Ext Dro		Total TPH (Gro+Dro+Ext Dro)	
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	mg/kg				
AH-1	3/14/2023	0-1	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		0	
		2-3	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		0	
		3-4	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		0	
AH-2	3/14/2023	0-1	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		0	
		2-3	720		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		0	
		3-4	1,580		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		0	
AH-3	3/14/2023	0-1	528		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		0	
		2-3	672		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		0	
		3-4	752		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		0	
AH-4	3/14/2023	0-1	1,410		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		0	
		2-3	1,140		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		0	
		3-4	1,040		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		0	
AH-5	3/14/2023	0-1	512		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		0	
		2-3	1,150		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		0	
		3-4	2,160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		0	
AH-6	3/14/2023	0-1	2,640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		0	
		2-3	1,820		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		0	
		3-4	2,640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		0	
AH-7	3/14/2023	0-1	736		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		0	
		2-3	752		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		0	
		3-4	752		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		0	
AH-8	3/14/2023	0-1	368		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		0	
		2-3	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		0	
		3-4	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		0	

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

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

Shaded rows indicate intervals proposed for excavation.

TABLE 4
SUMMARY OF ANALYTICAL RESULTS 2
023 ADDIIONAL SOIL ASSESSMENT- NAB1721930866
CONOCOPHILLIPS
ILLUSTRATED MAN FEE COM 1H RELEASE
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride ¹		BTEX ²										TPH ³						
							Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH
			Chloride	PID			mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆		(GRO+DRO+EXT DRO)
		ft. bgs	ppm		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
BG-23-1	9/11/2023	0-1'			48.0		NA		NA		NA		NA		NA		NA		NA		NA		NA
		1-2'			48.0		NA		NA		NA		NA		NA		NA		NA		NA		NA
		2-3'			32.0		NA		NA		NA		NA		NA		NA		NA		NA		NA
		3-4'			112		NA		NA		NA		NA		NA		NA		NA		NA		NA
		4-5'			208		NA		NA		NA		NA		NA		NA		NA		NA		NA
		5-6'			256		NA		NA		NA		NA		NA		NA		NA		NA		NA
		6-7'			272		NA		NA		NA		NA		NA		NA		NA		NA		NA
		7-8'			240		NA		NA		NA		NA		NA		NA		NA		NA		NA
		8-9'			176		NA		NA		NA		NA		NA		NA		NA		NA		NA
		9-10'			192		NA		NA		NA		NA		NA		NA		NA		NA		NA
		10-11'			176		NA		NA		NA		NA		NA		NA		NA		NA		NA
		11-12'			288		NA		NA		NA		NA		NA		NA		NA		NA		NA
		12-13'			320		NA		NA		NA		NA		NA		NA		NA		NA		NA
		13-14'			480		NA		NA		NA		NA		NA		NA		NA		NA		NA
		14-15'			576		NA		NA		NA		NA		NA		NA		NA		NA		NA
		15-16'			480		NA		NA		NA		NA		NA		NA		NA		NA		NA
		16-17'			592		NA		NA		NA		NA		NA		NA		NA		NA		NA
		17-18'			672		NA		NA		NA		NA		NA		NA		NA		NA		NA
		18-19'			736		NA		NA		NA		NA		NA		NA		NA		NA		NA
		19-20'			960		NA		NA		NA		NA		NA		NA		NA		NA		NA
		20-21'			928		NA		NA		NA		NA		NA		NA		NA		NA		NA
		21-22'			912		NA		NA		NA		NA		NA		NA		NA		NA		NA
		22-23'			1,010		NA		NA		NA		NA		NA		NA		NA		NA		NA
		23-24'			864		NA		NA		NA		NA		NA		NA		NA		NA		NA
		24-25'			816		NA		NA		NA		NA		NA		NA		NA		NA		NA
BH-23-2	9/11/2023	0-1'			48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-3'			592		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		4-5'			720		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		6-7'			736		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		9-10'			912		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		14-15'			1,090		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		19-20'			1,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		24-25'			1,060		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		23.7		25.0		48.7
BH-23-3	9/11/2023	0-1'			432		<0.050		<0.050	QR-3	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-3'			288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		4-5'			320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		6-7'			576		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		9-10'			800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		14-15'			816		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		19-20'			960		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		24-25'			1,010		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-

TABLE 4
SUMMARY OF ANALYTICAL RESULTS
2023 SOIL ASSESSMENT- NAB1721930866
CONOCOPHILLIPS
ILLUSTRATED MAN FEE COM 1H RELEASE
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride ¹		BTEX ²										TPH ³							
							Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
			C ₆ - C ₁₀														> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆					
		ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
BH-23-4	9/11/2023	0-1'			208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH-23-5	9/11/2023	0-1'			32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH-23-6	9/11/2023	0-1'			256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH-23-7	9/11/2023	0-1'			96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

NOTES:

- ft. Feet
- bgs Below ground surface
- mg/kg Milligrams per kilogram
- NA Sample not analyzed for analyte
- 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:

QR-3 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

APPENDIX A C-141 Forms

NM OIL CONSERVATION

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

ARTESIA DISTRICT

JUL 28 2017

RECEIVED

State of New Mexico

Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

NM OIL CONSERVATION

ARTESIA DISTRICT

JUL 28 2017

RECEIVED

Form C-141

Revised August 8, 2011

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

Release Notification and Corrective Action

NAB1721430866

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: COG Operating LLC OGRID # 229137	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-683-7443
Facility Name: Illustrated Man Fee Com #001H	Facility Type: Flowline

Surface Owner: Federal	Mineral Owner: Private	API No. 30-015-41025
------------------------	------------------------	----------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	12	25S	28E	170	North	900	West	Eddy

Latitude 32.166314 Longitude -104.056595

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 25 bbls.	Volume Recovered: 20 bbls.
Source of Release: Flowline	Date and Hour of Occurrence: July 26, 2017 9:40 am	Date and Hour of Discovery: July 26, 2017 9:40 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Ms. Weaver - NMOCD / Ms. Tucker - BLM	
By Whom? Dakota Neel	Date and Hour: July 26, 2017 2:35 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The release was caused by a valve failure on a flowline. The flowline was repaired.

Describe Area Affected and Cleanup Action Taken.*

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

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

Signature: <i>Rebecca Haskell</i>	OIL CONSERVATION DIVISION	
Printed Name: Rebecca Haskell	Approved by Environmental Specialist: <i>Cynthia W...</i>	
Title: Senior HSE Coordinator	Approval Date: 8/7/17	Expiration Date: N/A
E-mail Address: rhaskell@concho.com	Conditions of Approval: <i>see attached</i>	Attached <input checked="" type="checkbox"/>
Date: July 28, 2017 Phone: 432-683-7443		

* Attach Additional Sheets If Necessary

2RP-4320

Operator/Responsible Party,

The OCD has received the form C-141 you provided on **7/28/17** regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-4320 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 8/28/17. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

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

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

505-476-3465

jim.griswold@state.nm.us

Weaver, Crystal, EMNRD

From: Rebecca Haskell <RHaskell@concho.com>
Sent: Friday, July 28, 2017 1:12 PM
To: Weaver, Crystal, EMNRD; stucker@blm.gov
Cc: Bratcher, Mike, EMNRD; Jim Amos (jamos@blm.gov)
Subject: (C-141 Initial) ILLUSTRATED MAN FEE COM #001H 7-26-2017 (30-015-41025)
Attachments: Illustrated Man Fee Com #001H Initial C-141 7-26-17 (30-015-41025).pdf

Ms. Weaver / Ms. Tucker,

Please see the attached Initial C-141 for your consideration. If you have any questions or concerns please contact me.

Thank You,

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



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From: Dakota Neel
Sent: Wednesday, July 26, 2017 3:35 PM
To: Weaver, Crystal, EMNRD (Crystal.Weaver@state.nm.us); stucker@blm.gov
Cc: Jim Amos (jamos@blm.gov); Mike.Bratcher@state.nm.us; Rebecca Haskell; Aaron Lieb
Subject: (Notification) ILLUSTRATED MAN FEE COM #001H 7-26-2017 (30-015-41025)

Ms. Weaver / Ms. Tucker,

COG Production LLC [229137] is reporting a Release from the ILLUSTRATED MAN FEE COM #001H (30-015-41025)
Unit D Section 12 Township 25S Range 28E 170 FNL 900 FWL
The release occurred on 7/26/2017 at approximately 9:40 AM
Estimated Released: Approx: 25 barrels of produced water.
Estimated Recovered: Approx: unknown barrels of produced water.

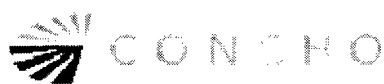
The release was caused by a valve failure on a flow line. The release occurred on the location of a nearby abandoned SWD (32.1662521,-104.056282). This area is being

evaluated and a C-141 will be submitted. If you have any additional questions please don't hesitate to contact me.

Thank You,

Dakota Neel
HSE Coordinator
COG Operating LLC
Cell: 432-215-2783
dneel2@concho.com

2407 Pecos Ave.
Artesia , NM 88210



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Bratcher, Mike, EMNRD

From: Dakota Neel <DNeel2@concho.com>
Sent: Wednesday, July 26, 2017 2:35 PM
To: Weaver, Crystal, EMNRD; stucker@blm.gov
Cc: Jim Amos (jamos@blm.gov); Bratcher, Mike, EMNRD; Rebecca Haskell; Aaron Lieb
Subject: (Notification) ILLUSTRATED MAN FEE COM #001H 7-26-2017 (30-015-41025)

Ms. Weaver / Ms. Tucker,

COG Production LLC [229137] is reporting a Release from the ILLUSTRATED MAN FEE COM #001H (30-015-41025)

Unit D Section 12 Township 25S Range 28E 170 FNL 900 FWL

The release occurred on 7/26/2017 at approximately 9:40 AM

Estimated Released: Approx: 25 barrels of produced water.

Estimated Recovered: Approx: unknown barrels of produced water.

The release was caused by a valve failure on a flow line. The release occurred on the location of a nearby abandoned SWD (32.1662521,-104.056282). This area is being evaluated and a C-141 will be submitted. If you have any additional questions please don't hesitate to contact me.

Thank You,

Dakota Neel
HSE Coordinator
COG Operating LLC
Cell: 432-215-2783
dneel2@concho.com

2407 Pecos Ave.
Artesia , NM 88210



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of this email and its attachments, if any, or the information contained herein, is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system. Further, any contract terms proposed or purportedly accepted in this email are not binding and are subject to management's final approval as memorialized in a separate written instrument, excluding electronic correspondence, executed by an authorized representative of COG Operating LLC or its affiliates.

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Ake Tavaraz Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 10/10/2023

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: Ake Tavaraz Date: _____

email: _____ Telephone: _____

OCD OnlyReceived by: Shelly Wells Date: 10/10/2023☒ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature: Ashley Maxwell Date: 10/23/2023

APPENDIX B

Site Characterization Data

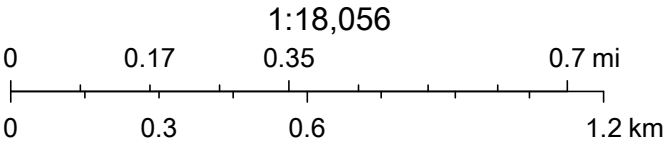
OCD Potential Karst Map



12/22/2022, 10:08:14 AM

Karst Occurrence Potential

- High
- Medium



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



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03423		CUB	ED	2	4	1	26	24S	28E	588786	3561952	2661	126		
C 01411	R	C	ED	4	4	2	04	25S	28E	586289	3558522*	2771	69	35	34
C 04025 POD1		CUB	ED	4	3	3	27	24S	28E	586700	3560964	2801	190	90	100
C 01411 POD2		C	ED	4	2	4	04	25S	28E	586374	3558036	2867	90	50	40
C 03358 POD1		CUB	ED	1	4	1	26	24S	28E	588416	3562116	2870	135		
C 04181 POD1		CUB	ED	3	2	1	26	24S	28E	588450	3562146	2894	280	56	224
C 03989 POD1		CUB	ED	4	2	2	33	24S	28E	586342	3560573	2904	100	70	30
C 04151 POD1		CUB	ED	4	2	1	26	24S	28E	588584	3562192	2919	280	65	215
C 04181 POD2		C	ED	3	2	1	26	24S	28E	588393	3562212	2969	80	56	24
C 04222 POD1		CUB	ED	1	3	3	27	24S	28E	586406	3561228	3194	140	35	105
C 03988 POD1		CUB	ED	4	4	4	28	24S	28E	586303	3561087	3196	110	95	15
C 04180 POD1		CUB	ED	2	1	2	26	24S	28E	589055	3562502	3208	160	58	102
C 04026 POD1		CUB	ED	3	2	1	25	24S	28E	590148	3562290	3225	190	90	100
C 03833 POD1		C	ED	2	1	2	26	24S	28E	589014	3562545	3249	96	55	41
C 01880		C	ED	3	3	2	06	25S	29E	592161	3558605*	3284	85	40	45
C 04294 POD1		CUB	ED	4	3	3	23	24S	28E	588169	3562646	3440	60		

Average Depth to Water: **61 feet**

Minimum Depth: **35 feet**

Maximum Depth: **95 feet**

Record Count: 16

UTM NAD83 Radius Search (in meters):

Easting (X): 588949.87

Northing (Y): 3559295.66

Radius: 3500

*UTM location was derived from PLSS - see Help

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.

12/22/22 9:23 AM

Page 1 of 1

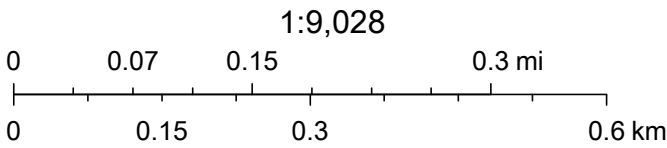
WATER COLUMN/ AVERAGE
DEPTH TO WATER

OCD Waterbodies Map



12/22/2022, 10:16:49 AM

OSW Water Bodys



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

OCD Mineral & Surface Ownership



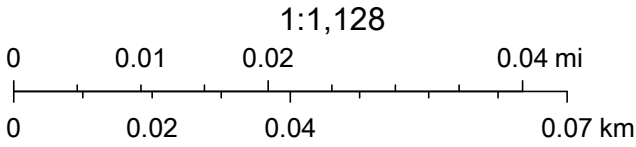
9/27/2023, 10:31:06 AM

Mineral Ownership

- A-All minerals are owned by U.S.
- N-No minerals are owned by the U.S.

Land Ownership

- BLM
- P



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

APPENDIX C

Regulatory Correspondence

Bratcher, Mike, EMNRD

From: Bratcher, Mike, EMNRD
Sent: Wednesday, May 23, 2018 3:08 PM
To: 'Gonzales, Clair'; Weaver, Crystal, EMNRD; Tucker, Shelly; hprice@blm.gov
Cc: Tavarez, Ike; 'Rebecca Haskell'; Dakota Neel; Sheldon Hitchcock; DeAnn Grant
Subject: RE: COG Illustrated Man Fee Com #1H Work Plan Approval Request (2RP-4246) 4320 not 4246

RE: COG * Illustrated Man Fee 1H * **2RP-4320** * DOR: 7/26/17

All,

The proposal for remediation of the above referenced release is approved with the following:

- One foot excavation in the area identified as T-1, based on 8/22/17 sampling data.
- Notify the OCD District 2 office in the event proposed excavation depths are not achieved.
- Notify the OCD District 2 office once remedial activities have been scheduled.
- Federal sites will require like approval from BLM

Thank you,

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

From: Gonzales, Clair <Clair.Gonzales@tetrattech.com>
Sent: Wednesday, April 18, 2018 2:32 PM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; Tucker, Shelly <stucker@blm.gov>; hprice@blm.gov
Cc: Tavarez, Ike <Ike.Tavarez@tetrattech.com>; 'Rebecca Haskell' <RHaskell@concho.com>; Dakota Neel <DNeel2@concho.com>; Sheldon Hitchcock <SLHitchcock@concho.com>; DeAnn Grant <agrants@concho.com>
Subject: COG Illustrated Man Fee Com #1H Work Plan Approval Request (2RP-4246)

Good Afternoon,

Attached is the work plan for the above referenced site located in Eddy County, New Mexico. Once approved, COG will implement the proposed work plan. Let me know if you have any questions or concerns.

Thank you,

Clair Gonzales

Clair Gonzales | Project Manager
Phone: 432.687.8123 | Mobile 432.260.8634 | Fax: 432.682.3946
clair.gonzales@tetrattech.com

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

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Poole, Nicholas

From: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Sent: Monday, September 11, 2023 4:19 PM
To: Poole, Nicholas
Cc: Llull, Christian
Subject: RE: [EXTERNAL] Extension Request - NAB1721930866 (Illustrated Man Fee Com 1H)

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

Good Afternoon,

The request of an extension date of October 17, 2023, is approved.

Thanks,
Ashley

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

From: Poole, Nicholas <NICHOLAS.POOLE@tetrattech.com>
Sent: Monday, September 11, 2023 8:49 AM
To: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Cc: Llull, Christian <Christian.Llull@tetrattech.com>
Subject: [EXTERNAL] Extension Request - NAB1721930866 (Illustrated Man Fee Com 1H)

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Ms. Maxwell,

On behalf of ConocoPhillips, Tetra Tech is requesting a 60-day extension (until October 17, 2023) to complete additional assessment activities and associated reporting for the Illustrated Man Fee Com 1H Release site (**NAB1721930866**). The release occurred on July 26, 2017, and the initial C-141 Report Form was received by NMOCD on July 28, 2017. Assorted assessment activities have been conducted at this site. A Work Plan was submitted describing the collected data.

The OCD rejected the proposed Work Plan and provided the following comments:

- *In the rejection dated November 29, 2022, it states that work will need to be done in accordance with 19.15.29 NMAC.*
- *The release is located in an area of high karst and therefore subject to the most stringent standards in Table 1 19.15.29.12 NMAC.*
- *Additional delineation, vertical and horizontal, is required to determine the full extent of the chloride impact of the release.*
- *Submit a work plan via the OCD permitting portal by August 18, 2023.*

Tetra Tech is scheduled to complete the additional assessment today, September 11, 2023. Once the sampling data is collected, tabulated, and evaluated, a revised remediation work plan will be submitted to the OCD.

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

Thank you in advance.

Nicholas

Nicholas Poole | Project Scientist
Mobile +1 (512) 560-9064 | nicholas.poole@tetrattech.com

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8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | tetrattech.com

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



Poole, Nicholas

From: OCDOnline@state.nm.us
Sent: Tuesday, May 9, 2023 12:17 PM
To: Llull, Christian
Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 214874

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

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

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAB1721930866, for the following reasons:

- **In the rejection dated November 29, 2022, it states that work will need to be done in accordance with 19.15.29 NMAC.**
- **The release is located in an area of high karst and therefore subject to the most stringent standards in Table 1 19.15.29.12 NMAC.**
- **Additional delineation, vertical and horizontal, is required to determine the full extent of the chloride impact of the release.**
- **Submit a work plan via the OCD permitting portal by August 18, 2023.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 214874.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

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

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

APPENDIX D

Laboratory Analytical Data



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

March 17, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: ILLUSTRATED MAN FEE COM 1H RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 03/14/23 15:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2023	Sampling Date:	03/14/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: AH - 1 (0-1') (H231162-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.58	
Toluene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.43	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.17	109	2.00	2.56	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.72	112	6.00	1.88	
Total BTEX	<0.300	0.300	03/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/15/2023	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	03/15/2023	ND	169	84.6	200	25.3	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	162	81.1	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2023	Sampling Date:	03/14/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: AH - 1 (2-3') (H231162-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.58		
Toluene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.43		
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.17	109	2.00	2.56		
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.72	112	6.00	1.88		
Total BTX	<0.300	0.300	03/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/15/2023	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	03/15/2023	ND	169	84.6	200	25.3	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	162	81.1	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/14/2023	Sampling Date:	03/14/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: AH - 1 (3-4') (H231162-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.58		
Toluene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.43		
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.17	109	2.00	2.56		
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.72	112	6.00	1.88		
Total BTEX	<0.300	0.300	03/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/15/2023	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	03/15/2023	ND	169	84.6	200	25.3	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	162	81.1	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/14/2023	Sampling Date:	03/14/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: AH - 2 (0-1') (H231162-04)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.58		
Toluene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.43		
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.17	109	2.00	2.56		
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.72	112	6.00	1.88		
Total BTX	<0.300	0.300	03/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/15/2023	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	03/15/2023	ND	169	84.6	200	25.3	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	162	81.1	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/14/2023	Sampling Date:	03/14/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: AH - 2 (2-3') (H231162-05)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.58		
Toluene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.43		
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.17	109	2.00	2.56		
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.72	112	6.00	1.88		
Total BTX	<0.300	0.300	03/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	03/15/2023	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	03/15/2023	ND	169	84.6	200	25.3	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	162	81.1	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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Analytical Results For:

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

Received:	03/14/2023	Sampling Date:	03/14/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: AH - 2 (3-4') (H231162-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.58		
Toluene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.43		
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.17	109	2.00	2.56		
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.72	112	6.00	1.88		
Total BTEX	<0.300	0.300	03/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1580	16.0	03/15/2023	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	03/15/2023	ND	169	84.6	200	25.3	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	162	81.1	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

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

Received:	03/14/2023	Sampling Date:	03/14/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: AH - 3 (0-1') (H231162-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.58		
Toluene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.43		
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.17	109	2.00	2.56		
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.72	112	6.00	1.88		
Total BTEX	<0.300	0.300	03/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	03/15/2023	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	03/15/2023	ND	169	84.6	200	25.3	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	162	81.1	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Analytical Results For:

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

Received:	03/14/2023	Sampling Date:	03/14/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: AH - 3 (2-3') (H231162-08)

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	03/16/2023	ND	2.08	104	2.00	2.58		
Toluene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.43		
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.17	109	2.00	2.56		
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.72	112	6.00	1.88		
Total BTEX	<0.300	0.300	03/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	03/15/2023	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	03/15/2023	ND	169	84.6	200	25.3	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	162	81.1	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

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

Received:	03/14/2023	Sampling Date:	03/14/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: AH - 3 (3-4') (H231162-09)

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	03/16/2023	ND	2.08	104	2.00	2.58		
Toluene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.43		
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.17	109	2.00	2.56		
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.72	112	6.00	1.88		
Total BTEX	<0.300	0.300	03/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	03/15/2023	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	03/15/2023	ND	169	84.6	200	25.3	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	162	81.1	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received:	03/14/2023	Sampling Date:	03/14/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: AH - 4 (0-1') (H231162-10)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.58		
Toluene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.43		
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.17	109	2.00	2.56		
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.72	112	6.00	1.88		
Total BTX	<0.300	0.300	03/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1410	16.0	03/15/2023	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	03/15/2023	ND	169	84.6	200	25.3	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	162	81.1	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Analytical Results For:

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

Received:	03/14/2023	Sampling Date:	03/14/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: AH - 4 (2-3') (H231162-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.58		
Toluene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.43		
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.17	109	2.00	2.56		
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.72	112	6.00	1.88		
Total BTEX	<0.300	0.300	03/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1140	16.0	03/15/2023	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	03/15/2023	ND	169	84.6	200	25.3	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	162	81.1	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received:	03/14/2023	Sampling Date:	03/14/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: AH - 4 (3-4') (H231162-12)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.58		
Toluene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.43		
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.17	109	2.00	2.56		
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.72	112	6.00	1.88		
Total BTX	<0.300	0.300	03/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	03/15/2023	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	03/15/2023	ND	169	84.6	200	25.3	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	162	81.1	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received:	03/14/2023	Sampling Date:	03/14/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: AH - 5 (0-1') (H231162-13)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.58		
Toluene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.43		
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.17	109	2.00	2.56		
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.72	112	6.00	1.88		
Total BTX	<0.300	0.300	03/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	03/15/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	169	84.6	200	25.3	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	162	81.1	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 49.1-148

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

Analytical Results For:

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

Received:	03/14/2023	Sampling Date:	03/14/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: AH - 5 (2-3') (H231162-14)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.58		
Toluene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.43		
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.17	109	2.00	2.56		
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.72	112	6.00	1.88		
Total BTX	<0.300	0.300	03/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1150	16.0	03/15/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	169	84.6	200	25.3	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	162	81.1	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

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

Received:	03/14/2023	Sampling Date:	03/14/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: AH - 5 (3-4') (H231162-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.58		
Toluene*	<0.050	0.050	03/16/2023	ND	2.08	104	2.00	2.43		
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.17	109	2.00	2.56		
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.72	112	6.00	1.88		
Total BTEX	<0.300	0.300	03/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	03/15/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	169	84.6	200	25.3	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	162	81.1	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Analytical Results For:

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

Received:	03/14/2023	Sampling Date:	03/14/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: AH - 6 (0-1') (H231162-16)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2023	ND	2.04	102	2.00	1.08	
Toluene*	<0.050	0.050	03/15/2023	ND	2.05	103	2.00	1.01	
Ethylbenzene*	<0.050	0.050	03/15/2023	ND	2.02	101	2.00	0.571	
Total Xylenes*	<0.150	0.150	03/15/2023	ND	6.16	103	6.00	1.44	
Total BTX	<0.300	0.300	03/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2640	16.0	03/15/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	169	84.6	200	25.3	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	162	81.1	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

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

Received:	03/14/2023	Sampling Date:	03/14/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: AH - 6 (2-3') (H231162-17)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2023	ND	2.04	102	2.00	1.08		
Toluene*	<0.050	0.050	03/15/2023	ND	2.05	103	2.00	1.01		
Ethylbenzene*	<0.050	0.050	03/15/2023	ND	2.02	101	2.00	0.571		
Total Xylenes*	<0.150	0.150	03/15/2023	ND	6.16	103	6.00	1.44		
Total BTEx	<0.300	0.300	03/15/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1820	16.0	03/15/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	169	84.6	200	25.3	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	162	81.1	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Analytical Results For:

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

Received:	03/14/2023	Sampling Date:	03/14/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: AH - 6 (3-4') (H231162-18)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2023	ND	2.04	102	2.00	1.08		
Toluene*	<0.050	0.050	03/16/2023	ND	2.05	103	2.00	1.01		
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.02	101	2.00	0.571		
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.16	103	6.00	1.44		
Total BTEx	<0.300	0.300	03/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2640	16.0	03/15/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	166	82.8	200	1.78	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	165	82.7	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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

Received:	03/14/2023	Sampling Date:	03/14/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: AH - 7 (0-1') (H231162-19)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.04	102	2.00	1.08	
Toluene*	<0.050	0.050	03/16/2023	ND	2.05	103	2.00	1.01	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.02	101	2.00	0.571	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.16	103	6.00	1.44	
Total BTX	<0.300	0.300	03/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	03/15/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	166	82.8	200	1.78	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	165	82.7	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

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

Received:	03/14/2023	Sampling Date:	03/14/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: AH - 7 (2-3') (H231162-20)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.04	102	2.00	1.08	
Toluene*	<0.050	0.050	03/16/2023	ND	2.05	103	2.00	1.01	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.02	101	2.00	0.571	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.16	103	6.00	1.44	
Total BTX	<0.300	0.300	03/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	03/15/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	166	82.8	200	1.78	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	165	82.7	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/14/2023	Sampling Date:	03/14/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: AH - 7 (3-4') (H231162-21)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.04	102	2.00	1.08	
Toluene*	<0.050	0.050	03/16/2023	ND	2.05	103	2.00	1.01	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.02	101	2.00	0.571	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.16	103	6.00	1.44	
Total BTX	<0.300	0.300	03/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	03/15/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	166	82.8	200	1.78	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	165	82.7	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

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

Received:	03/14/2023	Sampling Date:	03/14/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: AH - 8 (0-1') (H231162-22)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.04	102	2.00	1.08	
Toluene*	<0.050	0.050	03/16/2023	ND	2.05	103	2.00	1.01	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.02	101	2.00	0.571	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.16	103	6.00	1.44	
Total BTX	<0.300	0.300	03/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	03/15/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	166	82.8	200	1.78	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	165	82.7	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2023	Sampling Date:	03/14/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: AH - 8 (2-3') (H231162-23)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2023	ND	2.04	102	2.00	1.08		
Toluene*	<0.050	0.050	03/16/2023	ND	2.05	103	2.00	1.01		
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.02	101	2.00	0.571		
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.16	103	6.00	1.44		
Total BTEX	<0.300	0.300	03/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/15/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	166	82.8	200	1.78	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	165	82.7	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/14/2023	Sampling Date:	03/14/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: AH - 8 (3-4') (H231162-24)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2023	ND	2.04	102	2.00	1.08		
Toluene*	<0.050	0.050	03/16/2023	ND	2.05	103	2.00	1.01		
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.02	101	2.00	0.571		
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.16	103	6.00	1.44		
Total BTEx	<0.300	0.300	03/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/15/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	166	82.8	200	1.78	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	165	82.7	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech

Project Manager: Christian Lull

Address: 8911 Capital o Texas Hwy, Suite 2310

City: Austin **State:** TX **Zip:**

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

Project #: 212C-MD-02936 **Project Owner:** ConocoPhillips

Project Name: Illustrated Man Fee Com 1H Release

Project Location: Eddy County, New Mexico

Sampler Name: Cotton Bickersstaff

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

BILL TO

Lab I.D. AH311402

Sample I.D.

	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME
AH-1 (0-1')	G	1	X									3/14/2023	X
AH-1 (2-3')	G	1	X									3/14/2023	X
AH-1 (3-4')	G	1	X									3/14/2023	X
AH-2 (0-1')	G	1	X									3/14/2023	X
AH-2 (2-3')	G	1	X									3/14/2023	X
AH-2 (3-4')	G	1	X									3/14/2023	X
AH-3 (0-1')	G	1	X									3/14/2023	X
AH-3 (2-3')	G	1	X									3/14/2023	X
AH-3 (3-4')	G	1	X									3/14/2023	X
AH-4 (0-1')	G	1	X									3/14/2023	X

7-Mar

Company: Tetra Tech

Attn: Christian Lull

Address: EMAIL

City:

State: Zip:

Phone #:

Fax #:

Reinquinshed By: Cotton Bickersstaff

Reinquinshed By:

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

Observed Temp. °C 3.06
Corrected Temp. °C 3.06

Sample Condition
Cool ☒ Intact ☐

CHECKED BY: (Initials) *VB*

Turnaround Time: Standard ☒ Rush ☐ *MA Standard 1AT*

Thermometer ID #113 **Correction Factor** 0.5°C

Verbal Result: ☐ Yes ☐ No

AI Results are emailed. Please provide Email address: Christian.Lull@tetratech.com

REMARKS:

TPH 8015M

BTEX 8021B

Chloride SM4500Cl-B

Reinquinshed By: Cotton Bickersstaff

Reinquinshed By:

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

Observed Temp. °C 3.06
Corrected Temp. °C 3.06

Sample Condition
Cool ☒ Intact ☐

CHECKED BY: (Initials) *VB*

Turnaround Time: Standard ☒ Rush ☐ *MA Standard 1AT*

Thermometer ID #113 **Correction Factor** 0.5°C

Verbal Result: ☐ Yes ☐ No

AI Results are emailed. Please provide Email address: Christian.Lull@tetratech.com

REMARKS:

TPH 8015M

BTEX 8021B

Chloride SM4500Cl-B

Reinquinshed By: Cotton Bickersstaff

Reinquinshed By:

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

Observed Temp. °C 3.06
Corrected Temp. °C 3.06

Sample Condition
Cool ☒ Intact ☐

CHECKED BY: (Initials) *VB*

Turnaround Time: Standard ☒ Rush ☐ *MA Standard 1AT*

Thermometer ID #113 **Correction Factor** 0.5°C

Verbal Result: ☐ Yes ☐ No

AI Results are emailed. Please provide Email address: Christian.Lull@tetratech.com

REMARKS:

TPH 8015M

BTEX 8021B

Chloride SM4500Cl-B



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech				BILL TO		ANALYSIS REQUEST		
Project Manager: Christian Lull		7-Mar						
Address: 8911 Capital o Texas Hwy, Suite 2310		Company: Tetra Tech						
City: Austin	State: TX	Zip:	Attn: Christian Lull					
Phone #: (512)565-0190	Fax #:		Address: EMAIL					
Project #: 212C-MD-02936	Project Owner: ConocoPhillips	City:	State:	Zip:				
Project Name: Illustrated Man Fee Com 1H Release			Phone #:					
Project Location: Eddy County, New Mexico			Fax #:					
Sampler Name: Colton Bickstarff								
Lab I.D.			FOR LAB USE ONLY					
Sample I.D.	(G)RAB OR (C)COMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING
			GROUNDWATER	WASTEWATER	SOIL	OIL		
			OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME
11	AH-4 (2-3)	G 1	X				3/14/2023	
12	AH-4 (3-4)	G 1	X				3/14/2023	
13	AH-5 (0-1)	G 1	X				3/14/2023	
14	AH-5 (2-3)	G 1	X				3/14/2023	
15	AH-5 (3-4)	G 1	X				3/14/2023	
16	AH-6 (0-1)	G 1	X				3/14/2023	
17	AH-6 (2-3)	G 1	X				3/14/2023	
18	AH-6 (3-4)	G 1	X				3/14/2023	
19	AH-7 (0-1)	G 1	X				3/14/2023	
20	AH-7 (2-3)	G 1	X				3/14/2023	

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Reinquinshed By: Colton Bickstarff	Date: 3/16/23	Received By: [Signature]	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Reinquinshed By:	Date: 3/16/23	Received By:	All Results are emailed. Please provide Email address: Christian.Lull@tetratech.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp., °C Corrected Temp., °C	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initial)	Turnaround Time: Standard <input checked="" type="checkbox"/> Expedited <input type="checkbox"/>
	3.0°C		[Signature]	Rush: N/A Standard TAT <input type="checkbox"/>
				Bacteria (only Sample Condition) Cool Intact <input type="checkbox"/>
				Thermometer ID #113
				Correction Factor 0.5°C
				Corrected Temp., °C



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech

Project Manager: Christian Lull

Address: 8911 Capital o Texas Hwy, Suite 2310

City: Austin **State:** TX **Zip:**

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

Project #: 212C-MD-02936 **Project Owner:** ConocoPhillips

Project Name: Illustrated Man Fee Com 1H Release

Project Location: Eddy County, New Mexico

Sampler Name: Colton Bickelstaff

BILL TO

7-Mar

Company: Tetra Tech

Attn: Christian Lull

Address: EMAIL

City:

State: **Zip:**

Phone #:

Fax #:

FOR LAB USE ONLY

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 :			
DATE	TIME		

TPH 8015M

BTEX 8021B

Chloride SM4500CI-B

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500CI-B
1	AH-7 (3'-4')	G	1	X									3/14/2023		X	X	X
2	AH-8 (0-1')	G	1		X								3/14/2023		X	X	X
3	AH-8 (2'-3')	G	1		X								3/14/2023		X	X	X
4	AH-8 (3'-4')	G	1		X								3/14/2023		X	X	X

Reinquinshed By: Colton Bickelstaff

Date: 3/14/23 **Received By:** [Signature]

Time: 1545

Date: **Received By:**

Time:

Observed Temp. °C **Corrected Temp. °C**

Sample Condition **Checked By:** (Initials)

Turnaround Time: **Standard** **Bacteria (only) Sample Condition**

Rush: N/A, Standard TAT **Cool** **Intact** **Observed Temp. °C**

Thermometer ID #113 **Correction Factor: -0.5°C**

Remarks:

Verbal Result: ☐ Yes ☐ No **Add'l Phone #:**

All Results are emailed. Please provide Email address: Christian.Lull@tetratech.com



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

September 14, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: ILLUSTRATED MAN FEE COM 1H RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 09/11/23 14:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/11/2023	Sampling Date:	09/11/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BG - 23 - 1 (0-1') (H234900-01)

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	09/13/2023	ND	432	108	400	0.00	

Sample ID: BG - 23 - 1 (1-2') (H234900-02)

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	09/13/2023	ND	432	108	400	0.00	

Sample ID: BG - 23 - 1 (2-3') (H234900-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/13/2023	ND	432	108	400	0.00	

Sample ID: BG - 23 - 1 (3-4') (H234900-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/13/2023	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/11/2023	Sampling Date:	09/11/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BG - 23 - 1 (4-5') (H234900-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/13/2023	ND	432	108	400	0.00	

Sample ID: BG - 23 - 1 (5-6') (H234900-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/13/2023	ND	432	108	400	0.00	

Sample ID: BG - 23 - 1 (6-7') (H234900-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	09/13/2023	ND	432	108	400	0.00	

Sample ID: BG - 23 - 1 (7-8') (H234900-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/13/2023	ND	432	108	400	0.00	

Sample ID: BG - 23 - 1 (8-9') (H234900-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/13/2023	ND	432	108	400	0.00	

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Analytical Results For:

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

Received:	09/11/2023	Sampling Date:	09/11/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BG - 23 - 1 (9-10') (H234900-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	09/13/2023	ND	432	108	400	0.00		

Sample ID: BG - 23 - 1 (10-11') (H234900-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/13/2023	ND	432	108	400	0.00		

Sample ID: BG - 23 - 1 (11-12') (H234900-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	09/13/2023	ND	432	108	400	0.00		

Sample ID: BG - 23 - 1 (12-13') (H234900-13)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	09/13/2023	ND	432	108	400	0.00	

Sample ID: BG - 23 - 1 (13-14') (H234900-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	09/13/2023	ND	432	108	400	0.00		

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Analytical Results For:

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

Received:	09/11/2023	Sampling Date:	09/11/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BG - 23 - 1 (14-15') (H234900-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	09/13/2023	ND	416	104	400	3.77	QM-07	

Sample ID: BG - 23 - 1 (15-16') (H234900-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	09/13/2023	ND	416	104	400	3.77	

Sample ID: BG - 23 - 1 (16-17') (H234900-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	09/13/2023	ND	416	104	400	3.77	

Sample ID: BG - 23 - 1 (17-18') (H234900-18)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	09/13/2023	ND	416	104	400	3.77		

Sample ID: BG - 23 - 1 (18-19') (H234900-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	09/13/2023	ND	416	104	400	3.77		

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Analytical Results For:

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

Received:	09/11/2023	Sampling Date:	09/11/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BG - 23 - 1 (19-20') (H234900-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	960	16.0	09/13/2023	ND	416	104	400	3.77		

Sample ID: BG - 23 - 1 (20-21') (H234900-21)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	09/13/2023	ND	416	104	400	3.77	

Sample ID: BG - 23 - 1 (21-22') (H234900-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	09/13/2023	ND	416	104	400	3.77	

Sample ID: BG - 23 - 1 (22-23') (H234900-23)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	09/13/2023	ND	416	104	400	3.77	

Sample ID: BG - 23 - 1 (23-24') (H234900-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	09/13/2023	ND	416	104	400	3.77	

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Analytical Results For:

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

Received:	09/11/2023	Sampling Date:	09/11/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BG - 23 - 1 (24-25') (H234900-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	09/13/2023	ND	416	104	400	3.77		

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Analytical Results For:

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

Received:	09/11/2023	Sampling Date:	09/11/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BH - 23 - 2 (0-1') (H234900-26)

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	09/12/2023	ND	2.10	105	2.00	1.22		
Toluene*	<0.050	0.050	09/12/2023	ND	2.13	106	2.00	0.794		
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.08	104	2.00	0.716		
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.27	104	6.00	0.555		
Total BTEX	<0.300	0.300	09/12/2023	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	09/13/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	199	99.5	200	6.40	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	206	103	200	0.978	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

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

Received:	09/11/2023	Sampling Date:	09/11/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BH - 23 - 2 (2-3') (H234900-27)

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	09/12/2023	ND	2.10	105	2.00	1.22		
Toluene*	<0.050	0.050	09/12/2023	ND	2.13	106	2.00	0.794		
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.08	104	2.00	0.716		
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.27	104	6.00	0.555		
Total BTEx	<0.300	0.300	09/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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	592	16.0	09/13/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	191	95.3	200	1.37	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	195	97.6	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 49.1-148

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Analytical Results For:

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

Received:	09/11/2023	Sampling Date:	09/11/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BH - 23 - 2 (4-5') (H234900-28)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2023	ND	2.10	105	2.00	1.22		
Toluene*	<0.050	0.050	09/12/2023	ND	2.13	106	2.00	0.794		
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.08	104	2.00	0.716		
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.27	104	6.00	0.555		
Total BTEX	<0.300	0.300	09/12/2023	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	720	16.0	09/13/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	191	95.3	200	1.37	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	195	97.6	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/11/2023	Sampling Date:	09/11/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BH - 23 - 2 (6-7') (H234900-29)

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	09/12/2023	ND	2.10	105	2.00	1.22		
Toluene*	<0.050	0.050	09/12/2023	ND	2.13	106	2.00	0.794		
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.08	104	2.00	0.716		
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.27	104	6.00	0.555		
Total BTEx	<0.300	0.300	09/12/2023	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	736	16.0	09/13/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	191	95.3	200	1.37	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	195	97.6	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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Analytical Results For:

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

Received:	09/11/2023	Sampling Date:	09/11/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BH - 23 - 2 (9-10') (H234900-30)

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	09/12/2023	ND	2.10	105	2.00	1.22		
Toluene*	<0.050	0.050	09/12/2023	ND	2.13	106	2.00	0.794		
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.08	104	2.00	0.716		
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.27	104	6.00	0.555		
Total BTEX	<0.300	0.300	09/12/2023	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	912	16.0	09/13/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	191	95.3	200	1.37	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	195	97.6	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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Analytical Results For:

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

Received:	09/11/2023	Sampling Date:	09/11/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BH - 23 - 2 (14-15') (H234900-31)

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	09/12/2023	ND	2.10	105	2.00	1.22		
Toluene*	<0.050	0.050	09/12/2023	ND	2.13	106	2.00	0.794		
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.08	104	2.00	0.716		
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.27	104	6.00	0.555		
Total BTEX	<0.300	0.300	09/12/2023	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	1090	16.0	09/13/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	191	95.3	200	1.37	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	195	97.6	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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Analytical Results For:

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

Received:	09/11/2023	Sampling Date:	09/11/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BH - 23 - 2 (19-20') (H234900-32)

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	09/12/2023	ND	2.10	105	2.00	1.22	
Toluene*	<0.050	0.050	09/12/2023	ND	2.13	106	2.00	0.794	
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.08	104	2.00	0.716	
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.27	104	6.00	0.555	
Total BTEx	<0.300	0.300	09/12/2023	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	1120	16.0	09/13/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	191	95.3	200	1.37	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	195	97.6	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/11/2023	Sampling Date:	09/11/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BH - 23 - 2 (24-25') (H234900-33)

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	09/12/2023	ND	2.10	105	2.00	1.22	
Toluene*	<0.050	0.050	09/12/2023	ND	2.13	106	2.00	0.794	
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.08	104	2.00	0.716	
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.27	104	6.00	0.555	
Total BTEx	<0.300	0.300	09/12/2023	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	1060	16.0	09/13/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	191	95.3	200	1.37	
DRO >C10-C28*	23.7	10.0	09/12/2023	ND	195	97.6	200	0.334	
EXT DRO >C28-C36	25.0	10.0	09/12/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/11/2023	Sampling Date:	09/11/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BH - 23 - 3 (0-1') (H234900-34)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2023	ND	1.92	96.2	2.00	0.485	QR-03	
Toluene*	<0.050	0.050	09/12/2023	ND	1.92	96.2	2.00	0.168		
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.04	102	2.00	0.114		
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.11	102	6.00	0.522		
Total BTX	<0.300	0.300	09/12/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	09/13/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	191	95.3	200	1.37		
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	195	97.6	200	0.334		
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND						

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.4 % 49.1-148

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Analytical Results For:

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

Received:	09/11/2023	Sampling Date:	09/11/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BH - 23 - 3 (2-3') (H234900-35)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2023	ND	1.92	96.2	2.00	0.485		
Toluene*	<0.050	0.050	09/12/2023	ND	1.92	96.2	2.00	0.168		
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.04	102	2.00	0.114		
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.11	102	6.00	0.522		
Total BTX	<0.300	0.300	09/12/2023	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	288	16.0	09/13/2023	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	09/12/2023	ND	191	95.3	200	1.37	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	195	97.6	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.2 % 49.1-148

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Analytical Results For:

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

Received:	09/11/2023	Sampling Date:	09/11/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BH - 23 - 3 (4-5') (H234900-36)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2023	ND	1.92	96.2	2.00	0.485		
Toluene*	<0.050	0.050	09/12/2023	ND	1.92	96.2	2.00	0.168		
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.04	102	2.00	0.114		
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.11	102	6.00	0.522		
Total BTX	<0.300	0.300	09/12/2023	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	320	16.0	09/13/2023	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	09/12/2023	ND	191	95.3	200	1.37	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	195	97.6	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					

Surrogate: 1-Chlorooctane 76.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/11/2023	Sampling Date:	09/11/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BH - 23 - 3 (6-7') (H234900-37)

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	09/12/2023	ND	1.92	96.2	2.00	0.485		
Toluene*	<0.050	0.050	09/12/2023	ND	1.92	96.2	2.00	0.168		
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.04	102	2.00	0.114		
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.11	102	6.00	0.522		
Total BTEX	<0.300	0.300	09/12/2023	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	576	16.0	09/13/2023	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	09/12/2023	ND	191	95.3	200	1.37	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	195	97.6	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/11/2023	Sampling Date:	09/11/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BH - 23 - 3 (9-10') (H234900-38)

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	09/12/2023	ND	1.92	96.2	2.00	0.485		
Toluene*	<0.050	0.050	09/12/2023	ND	1.92	96.2	2.00	0.168		
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.04	102	2.00	0.114		
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.11	102	6.00	0.522		
Total BTEx	<0.300	0.300	09/12/2023	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	800	16.0	09/13/2023	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	09/12/2023	ND	191	95.3	200	1.37	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	195	97.6	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/11/2023	Sampling Date:	09/11/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BH - 23 - 3 (14-15') (H234900-39)

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	09/12/2023	ND	1.92	96.2	2.00	0.485		
Toluene*	<0.050	0.050	09/12/2023	ND	1.92	96.2	2.00	0.168		
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.04	102	2.00	0.114		
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.11	102	6.00	0.522		
Total BTEX	<0.300	0.300	09/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	816	16.0	09/13/2023	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	09/12/2023	ND	191	95.3	200	1.37	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	195	97.6	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/11/2023	Sampling Date:	09/11/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BH - 23 - 3 (19-20') (H234900-40)

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	09/12/2023	ND	1.92	96.2	2.00	0.485		
Toluene*	<0.050	0.050	09/12/2023	ND	1.92	96.2	2.00	0.168		
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.04	102	2.00	0.114		
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.11	102	6.00	0.522		
Total BTEX	<0.300	0.300	09/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	960	16.0	09/13/2023	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	09/12/2023	ND	191	95.3	200	1.37	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	195	97.6	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/11/2023	Sampling Date:	09/11/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BH - 23 - 3 (24-25') (H234900-41)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2023	ND	1.92	96.2	2.00	0.485		
Toluene*	<0.050	0.050	09/12/2023	ND	1.92	96.2	2.00	0.168		
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.04	102	2.00	0.114		
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.11	102	6.00	0.522		
Total BTX	<0.300	0.300	09/12/2023	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	1010	16.0	09/13/2023	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	09/12/2023	ND	191	95.3	200	1.37	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	195	97.6	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/11/2023	Sampling Date:	09/11/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BH - 23 - 4 (0-1') (H234900-42)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2023	ND	1.92	96.2	2.00	0.485		
Toluene*	<0.050	0.050	09/12/2023	ND	1.92	96.2	2.00	0.168		
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.04	102	2.00	0.114		
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.11	102	6.00	0.522		
Total BTX	<0.300	0.300	09/12/2023	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	208	16.0	09/13/2023	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	09/12/2023	ND	191	95.3	200	1.37	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	195	97.6	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					

Surrogate: 1-Chlorooctane 65.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.9 % 49.1-148

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Analytical Results For:

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

Received:	09/11/2023	Sampling Date:	09/11/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BH - 23 - 5 (0-1') (H234900-43)

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	09/12/2023	ND	1.92	96.2	2.00	0.485		
Toluene*	<0.050	0.050	09/12/2023	ND	1.92	96.2	2.00	0.168		
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.04	102	2.00	0.114		
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.11	102	6.00	0.522		
Total BTEX	<0.300	0.300	09/12/2023	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	32.0	16.0	09/13/2023	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	09/12/2023	ND	191	95.3	200	1.37	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	195	97.6	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.5 % 49.1-148

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Analytical Results For:

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

Received:	09/11/2023	Sampling Date:	09/11/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BH - 23 - 6 (0-1') (H234900-44)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2023	ND	1.92	96.2	2.00	0.485	
Toluene*	<0.050	0.050	09/12/2023	ND	1.92	96.2	2.00	0.168	
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.04	102	2.00	0.114	
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.11	102	6.00	0.522	
Total BTX	<0.300	0.300	09/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	09/13/2023	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	09/12/2023	ND	191	95.3	200	1.37	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	195	97.6	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					

Surrogate: 1-Chlorooctane 71.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/11/2023	Sampling Date:	09/11/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Dionica Hinojos
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BH - 23 - 7 (0-1') (H234900-45)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2023	ND	1.92	96.2	2.00	0.485	
Toluene*	<0.050	0.050	09/12/2023	ND	1.92	96.2	2.00	0.168	
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.04	102	2.00	0.114	
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.11	102	6.00	0.522	
Total BTX	<0.300	0.300	09/12/2023	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	96.0	16.0	09/13/2023	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	09/12/2023	ND	191	95.3	200	1.37	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	195	97.6	200	0.334	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					

Surrogate: 1-Chlorooctane 68.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476
Company Name: Tetra Tech

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech

Project Manager: Christian Lull

Address: 8911 Capital o Texas Hwy, Suite 2310

City: Austin

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

Project #: 212C-MD-02936 **Project Owner:**

Project Name: Illustrated Man Fee Com 1H Release

Project Location: Eddy County, New Mexico

Sampler Name: Colton Bickerstaff

P.O. #

Company: Tetra Tech

Attn: Christian Lull

Address: EMAIL

City:

State: **Zip:**

Phone #: **Fax #:**

BILL TO

ANALYSIS REQUEST

Lab I.D. H034900

Sample I.D.

	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	SAMPLING	DATE	TIME	TPH 8015M	BTEx 8021B	Chloride SM4500Cl-B	
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE								ICE / COOL
1	BG-23-1 (10-11)	G 1															
2	BG-23-1 (11-12)	G 1	X														
3	BG-23-1 (12-13)	G 1		X													
4	BG-23-1 (13-14)	G 1			X												
5	BG-23-1 (14-15)	G 1			X												
6	BG-23-1 (15-16)	G 1			X												
7	BG-23-1 (16-17)	G 1			X												
8	BG-23-1 (17-18)	G 1			X												
9	BG-23-1 (18-19)	G 1			X												
10	BG-23-1 (19-20)	G 1			X												

Releas Note: Locality and changes. Can be used for any claim arising within 30 days after completion of the project. All claims including those for negligence and any other claims whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the project.

Relinquished By: Colton Bickerstaff

Date: 9/11/23

Received By: [Signature]

Date: 9/11/23

Time:

Observed Temp. °C: 41.1

Corrected Temp. °C:

Sample Condition: ☒ Cool ☐ Hot

Checked By: [Signature] (Initials)

Remarks:

Verbal Result: ☐ Yes ☐ No **Add'l Phone #:**

All results are emailed. Please provide Email address: Christian.Lull@tetratech.com

Standard: ☒ **Backtit (only) Sample Condition:** ☐ **Blank:** ☐ **Thermometer ID:** ☐ **Correction Factor:** ☐ **Observed Temp. °C:** ☐ **Corrected Temp. °C:** ☐



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tetra Tech

Project Manager: Christian Lull

Address: 8911 Capital o Texas Hwy, Suite 2310

City: Austin State: TX Zip:

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

Project #: 212C-MD-02936 Project Owner: ConocoPhillips

Project Name: Illustrated Man Fee Com 1H Release

Project Location: Eddy County, New Mexico

Sampler Name: Colton Bickerstaff

Lab I.D. H0241900

Sample I.D.

		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500CI-B	ANALYSIS REQUEST				
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE										
11	BG-23-1 (20-21)	G	1	X					9/11/2023		X							
12	BG-23-1 (21-22)	G	1	X					9/11/2023		X							
13	BG-23-1 (22-23)	G	1	X					9/11/2023		X							
14	BG-23-1 (23-24)	G	1	X					9/11/2023		X							
15	BG-23-1 (24-25)	G	1	X					9/11/2023		X							
16	BH-23-2 (0-1)	G	1	X					9/11/2023		X							
17	BH-23-2 (2-3)	G	1	X					9/11/2023		X							
18	BH-23-2 (4-5)	G	1	X					9/11/2023		X							
19	BH-23-2 (6-7)	G	1	X					9/11/2023		X							
20	BH-23-2 (9-10)	G	1	X					9/11/2023		X							

NOTE: Tetra Tech and its affiliates are not responsible for the accuracy of the data provided by the client. All data is subject to the accuracy of the client's information and the accuracy of the client's equipment. All data is subject to the accuracy of the client's information and the accuracy of the client's equipment.

Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #:

Relinquished By:

Received By:

Date:

Time:

Observed Temp. -C

Corrected Temp. -C

Sample - UPS - Bus - Other:

FORU-006 R 3.2 10/07/21

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tetra Tech

Project Manager: Christian Lull

Address: 8911 Capital o Texas Hwy, Suite 2310

City: Austin

Phone #: (512)565-0190

Fax #: State: TX Zip:

Project #: 212C-MD-02336

Project Owner: ConocoPhillips

Project Name: Illustrated Man Fee Com 1H Release

Project Location: Eddy County, New Mexico

Sampler Name: Colton Bickstaff

Lab I.D. H34900

FOR LAB USE ONLY

Sample I.D.

Matrix

Preserv.

Sampling

TPH 8015M

BTEX 8021B

Chloride SM4500Cl-B

ANALYSIS REQUEST

4065

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500Cl-B
31	BH-23-2 (14-15)	G	1	X								9/11/2023		X	X	X
32	BH-23-2 (19-20)	G	1	X								9/11/2023		X	X	X
33	BH-23-2 (24-25)	G	1	X								9/11/2023		X	X	X
34	BH-23-3 (0-1)	G	1	X								9/11/2023		X	X	X
35	BH-23-3 (2-3)	G	1	X								9/11/2023		X	X	X
36	BH-23-3 (4-5)	G	1	X								9/11/2023		X	X	X
37	BH-23-3 (6-7)	G	1	X								9/11/2023		X	X	X
38	BH-23-3 (9-10)	G	1	X								9/11/2023		X	X	X
39	BH-23-3 (14-15)	G	1	X								9/11/2023		X	X	X
40	BH-23-3 (19-20)	G	1	X								9/11/2023		X	X	X

PLEASE NOTE: Liability and Coverage: Cardinal's liability and coverage is limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of data, or loss of profits incurred by client, its subsidiaries, or affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Colton Bickstaff

Date: 9/11/23

Received By:

Relinquished By:

Date: 9/11/23

Received By: [Signature]

Delivered By: (Circle One) [Signature]

Date: 9/11/23

Received By: [Signature]

Sampler - Ups - Bus - Off - [Signature]

Date: 9/11/23

Received By: [Signature]

FORM-006 R 3.2 10/07/21

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

Observed Temp. °C	Corrected Temp. °C	Sample Condition	CHECKED BY: (Initials)	Thermometer Time: Standard	Bacteria (only) Sample Condition	Thermometer ID	Correction Factor	Observed Temp. °C	Corrected Temp. °C
41.1		Cool	[Signature]	17.7	Standard	17.7	-0.5°C	41.1	41.6
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Cool		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

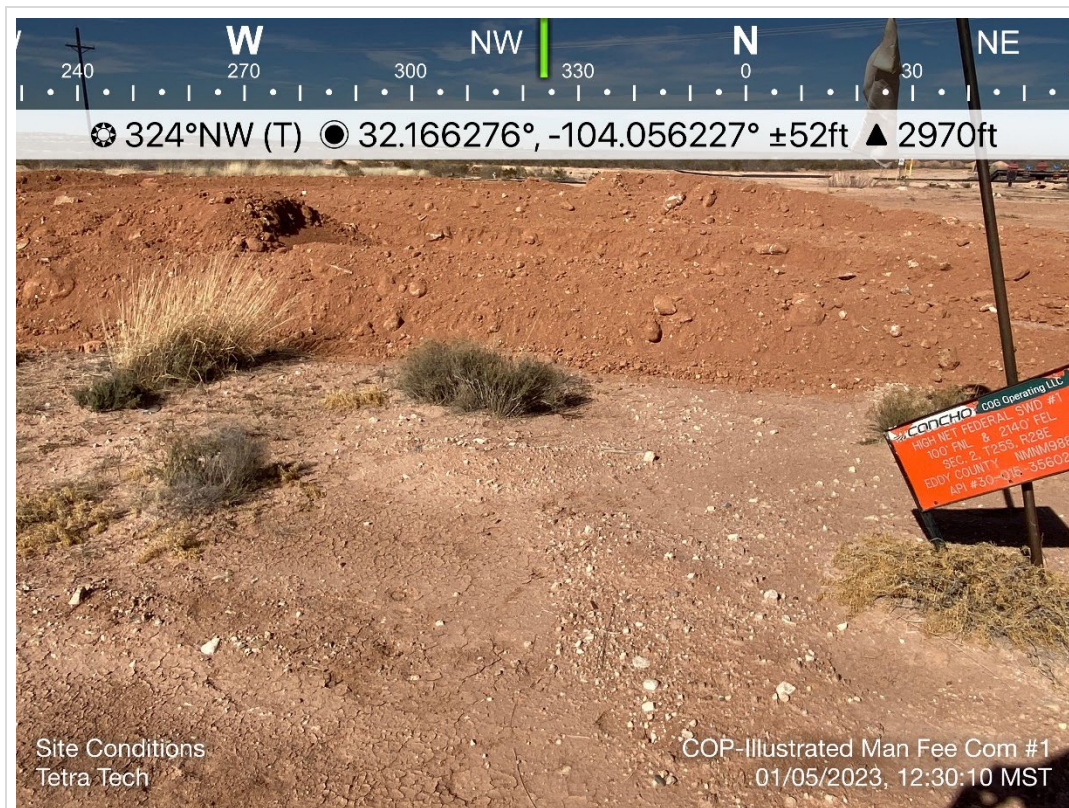
545

Company Name: Tetra Tech Address: 8911 Capital o Texas Hwy, Suite 2310 City: Austin State: TX Zip: 78758 Phone #: (512)565-0190 Fax #: 512-565-0190 Project #: 212C-MD-02936 Project Owner: ConocoPhillips Project Name: Illustrated Man Fee Com 1H Release Project Location: Eddy County, New Mexico Sampler Name: Colton Bickerstaff		101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Project Manager: Christian Lull P.O. # Company: Tetra Tech Attn: Christian Lull Address: EMAIL City: State: Zip: Phone #: Fax #:																																																																																																																									
Relinquished By: Colton Bickerstaff Date: 9/11/23 Time: 4:50 Received By: [Signature] Date: 9/11/23 Time: 4:11 Observed Temp. °C: 41.1 Corrected Temp. °C: 41.1 Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Not Intact COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: [Signature] (Initials)		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No All Results are emailed. Please provide Email address: Christian.Lull@tetratech.com Add'l Phone #: Remarks: Thermometer ID: 142 Correction Factor: -4.5°C Standard: <input checked="" type="checkbox"/> Bacteria (only) Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact Observed Temp. °C: <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C: <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																																																																									
<p>PLEASE NOTE: Laboratories and clients acknowledge that any chain of custody involving samples submitted to this laboratory is based on the information provided by the client. The laboratory is not responsible for the accuracy of the information provided by the client. The laboratory is not responsible for the accuracy of the information provided by the client. The laboratory is not responsible for the accuracy of the information provided by the client.</p> <table border="1"><thead><tr><th>Lab I.D.</th><th>Sample I.D.</th><th>(G)RAB OR (C)OMP.</th><th># CONTAINERS</th><th>MATRIX</th><th>PRESERV.</th><th>SAMPLING</th><th>DATE</th><th>TIME</th><th>TPH 8015M</th><th>BTEX 8021B</th><th>Chloride SM4500Cl-B</th></tr></thead><tbody><tr><td>41</td><td>BH-23-3 (24-25)</td><td>G</td><td>1</td><td>GROUNDWATER</td><td></td><td></td><td>9/11/2023</td><td></td><td>X</td><td>X</td><td>X</td></tr><tr><td>42</td><td>BH-23-4 (0-1)</td><td>G</td><td>1</td><td>WASTEWATER</td><td></td><td></td><td>9/11/2023</td><td></td><td>X</td><td>X</td><td>X</td></tr><tr><td>43</td><td>BH-23-5 (0-1)</td><td>G</td><td>1</td><td>SOIL</td><td></td><td></td><td>9/11/2023</td><td></td><td>X</td><td>X</td><td>X</td></tr><tr><td>44</td><td>BH-23-6 (0-1)</td><td>G</td><td>1</td><td>OIL</td><td></td><td></td><td>9/11/2023</td><td></td><td>X</td><td>X</td><td>X</td></tr><tr><td>45</td><td>BH-23-7 (0-1)</td><td>G</td><td>1</td><td>SLUDGE</td><td></td><td></td><td>9/11/2023</td><td></td><td>X</td><td>X</td><td>X</td></tr><tr><td></td><td></td><td></td><td></td><td>OTHER:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>ACID/BASE:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>ICE / COOL</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>OTHER:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>				Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500Cl-B	41	BH-23-3 (24-25)	G	1	GROUNDWATER			9/11/2023		X	X	X	42	BH-23-4 (0-1)	G	1	WASTEWATER			9/11/2023		X	X	X	43	BH-23-5 (0-1)	G	1	SOIL			9/11/2023		X	X	X	44	BH-23-6 (0-1)	G	1	OIL			9/11/2023		X	X	X	45	BH-23-7 (0-1)	G	1	SLUDGE			9/11/2023		X	X	X					OTHER:												ACID/BASE:												ICE / COOL												OTHER:							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500Cl-B																																																																																																																
41	BH-23-3 (24-25)	G	1	GROUNDWATER			9/11/2023		X	X	X																																																																																																																
42	BH-23-4 (0-1)	G	1	WASTEWATER			9/11/2023		X	X	X																																																																																																																
43	BH-23-5 (0-1)	G	1	SOIL			9/11/2023		X	X	X																																																																																																																
44	BH-23-6 (0-1)	G	1	OIL			9/11/2023		X	X	X																																																																																																																
45	BH-23-7 (0-1)	G	1	SLUDGE			9/11/2023		X	X	X																																																																																																																
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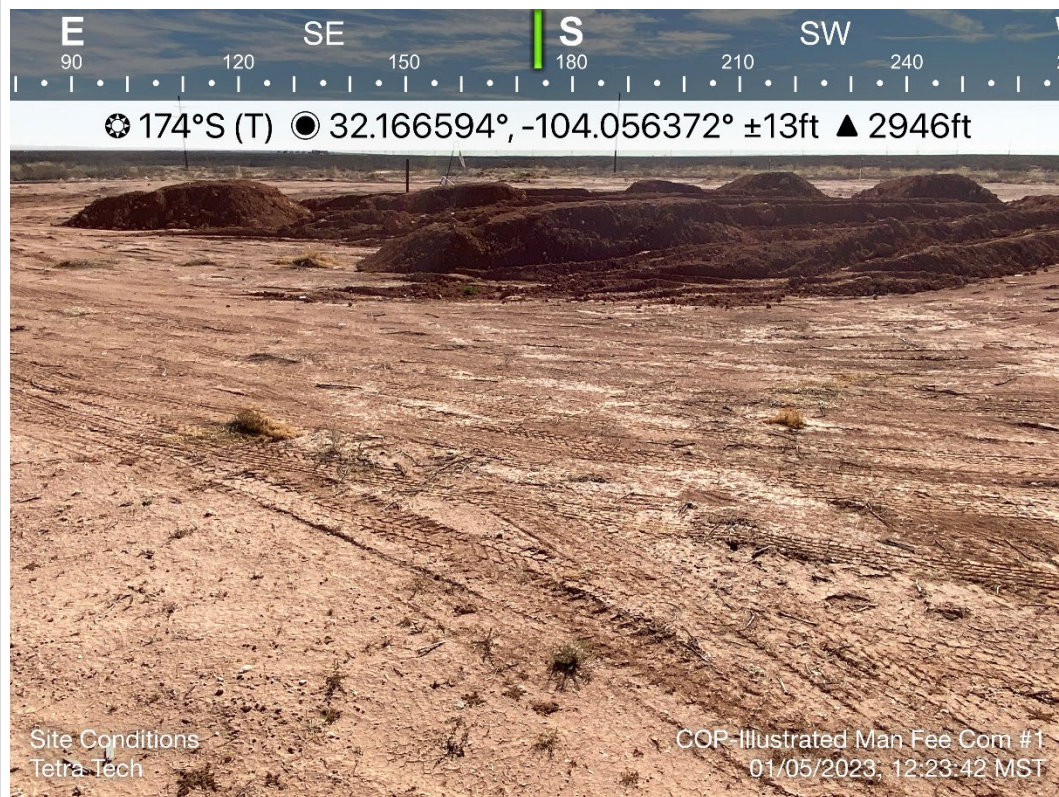
† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

APPENDIX E

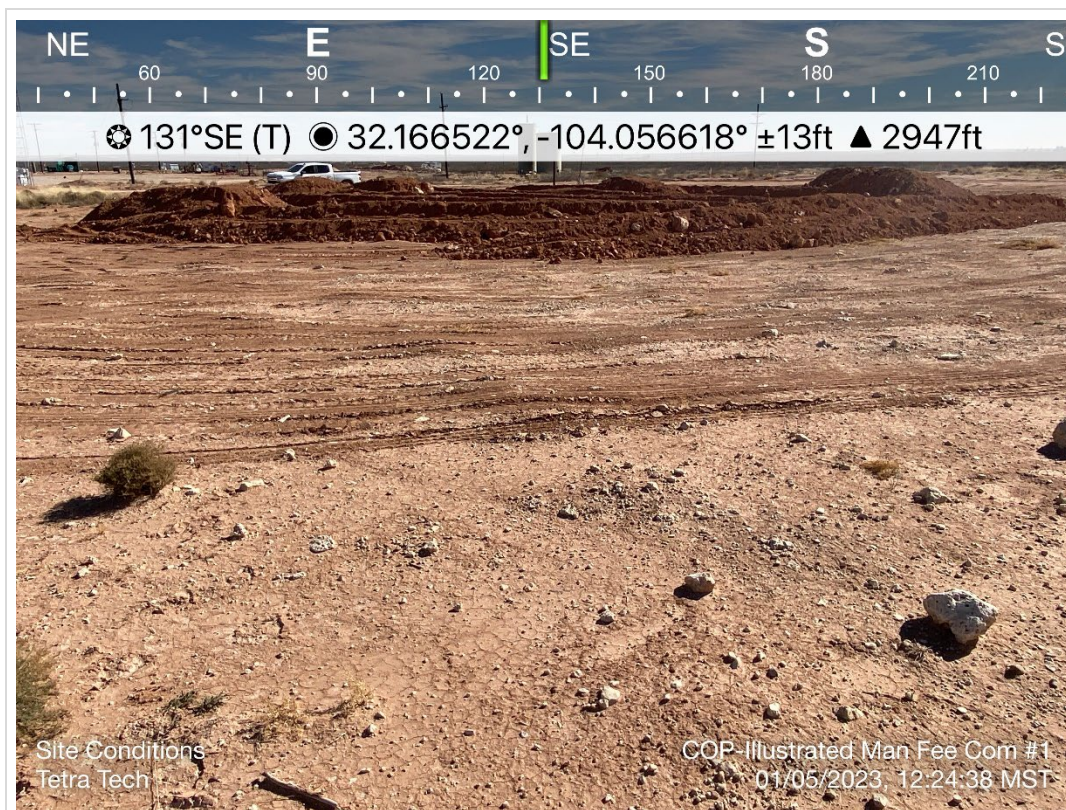
Photographic Documentation



TETRA TECH, INC. PROJECT NO. 212C-MD-02936	DESCRIPTION	Site Signage; High Net Federal SWD #1 and location information.	1
	SITE NAME	Illustrated Man Fee Com #1H	1/5/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02936	DESCRIPTION	View south. North side of pad. Soil stockpile.	2
	SITE NAME	Illustrated Man Fee Com #1H	1/5/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02936	DESCRIPTION	View southeast. Northeast corner of lease pad. Soil stockpile.	3
	SITE NAME	Illustrated Man Fee Com #1H	1/5/2023



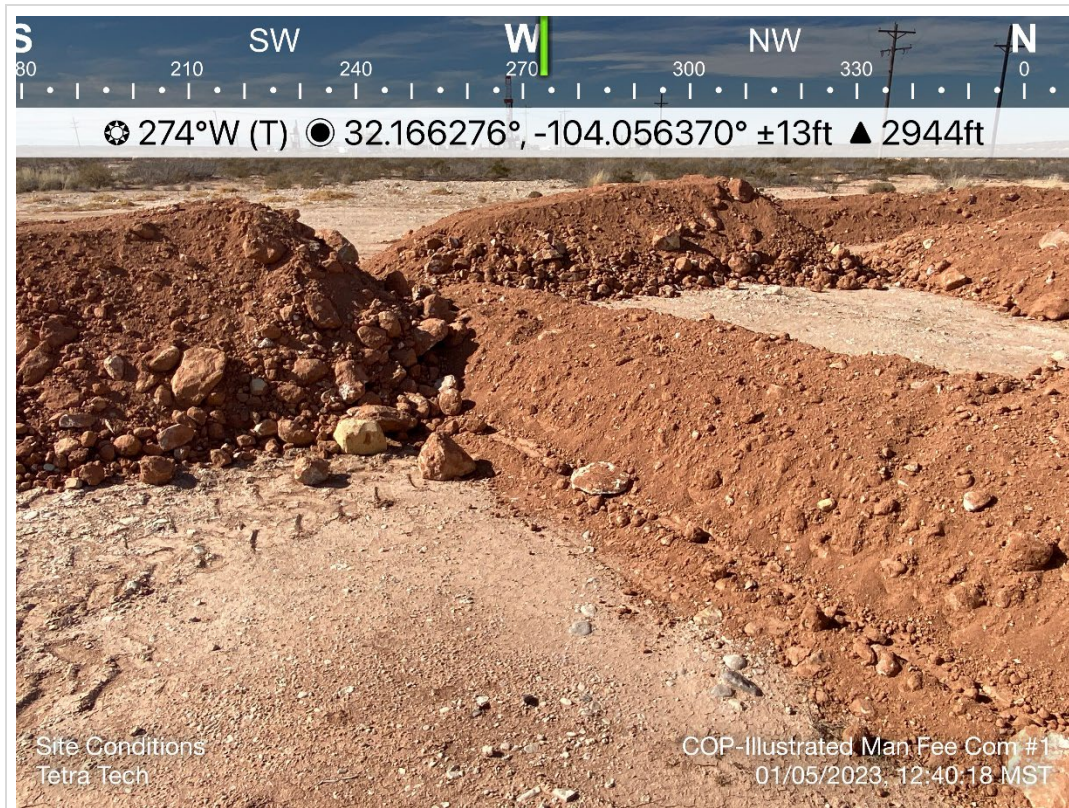
TETRA TECH, INC. PROJECT NO. 212C-MD-02936	DESCRIPTION	View south/southeast. Southeast corner of lease pad. Soil stockpile.	4
	SITE NAME	Illustrated Man Fee Com #1H	1/5/2023



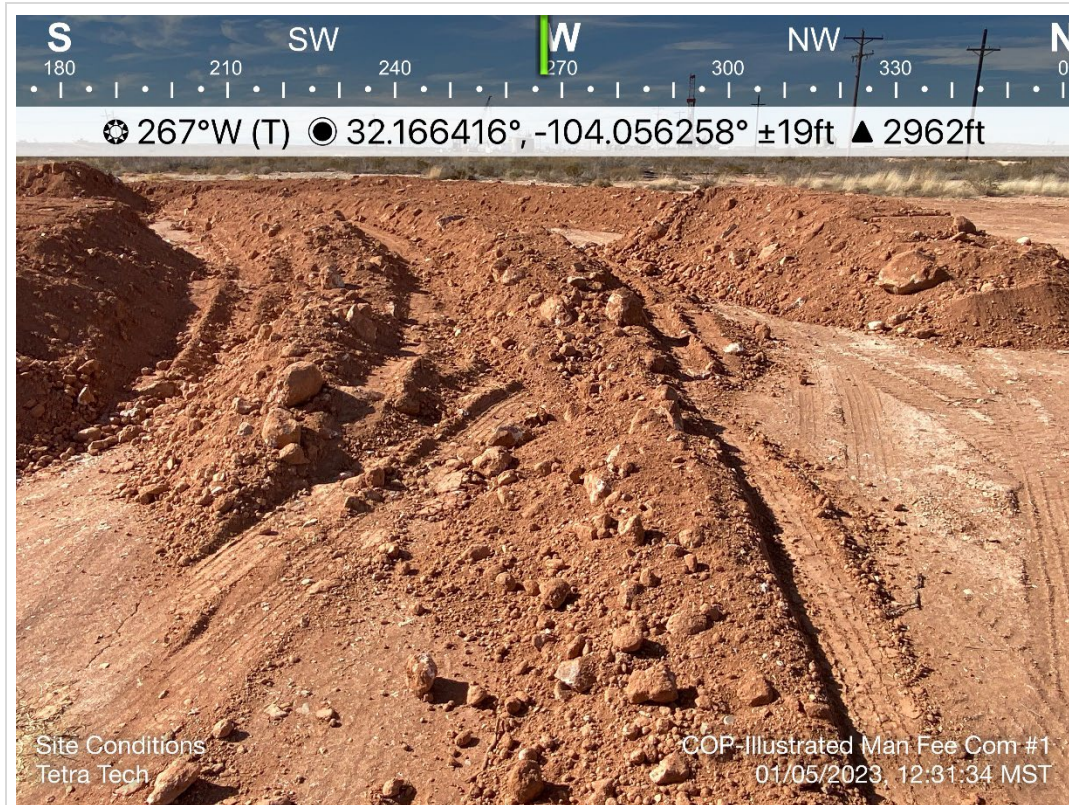
TETRA TECH, INC. PROJECT NO. 212C-MD-02936	DESCRIPTION	View southwest. Northeast corner of lease pad. Soil stockpile.	5
	SITE NAME	Illustrated Man Fee Com #1H	1/5/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02936	DESCRIPTION	View north/northeast. Soil stockpile.	6
	SITE NAME	Illustrated Man Fee Com #1H	1/5/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02936	DESCRIPTION	View west. Soil stockpile.	7
	SITE NAME	Illustrated Man Fee Com #1H	1/5/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02936	DESCRIPTION	View west. Soil stockpile.	8
	SITE NAME	Illustrated Man Fee Com #1H	1/5/2023

APPENDIX F Seed Mix Details

(27)

BLM Serial #:

Company Reference:

3.2 Seed Mixture for LPC Sand/Shinnery Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

*Pounds of pure live seed: Pounds of seed x percent purity x percent germination = pounds pure live seed

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 273698

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 273698
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Work plan and variance request for background sample approved. Submit a report by 2/26/2023.	10/23/2023