TETRA TECH

August 16, 2024

District Supervisor
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

Re: Interim Remediation Report and Revised Additional Remediation Work Plan
Maverick Permian, LLC
EVGSAU 3440-002 Flowline Releases
Unit Letter K, Section 34, Township 17 South, Range 35 East
Lea County, New Mexico
Incident IDs: nRH2003532478 and nAPP2129936218

Dear Sir or Madam,

Tetra Tech, Inc. (Tetra Tech) was initially contracted by ConocoPhillips to assess two releases that occurred from the flowline associated with the East Vacuum Grayburg San Andres Unit (EVGSAU) 3440-002 well, located in Unit Letter K, Section 34, Township 17 South, Range 35 East, in Lea County, New Mexico (Site). The releases occurred at coordinates 32.7894821°, -103.4476547° and 32.789948°, -103.44811° as shown in **Figures 1** and **2**. Maverick Permian, LLC (Maverick) acquired this site from ConocoPhillips in 2022 and contracted Tetra Tech to continue working on the site remediation. This Closure Report covers both incidents, which were remediated concurrently.

BACKGROUND

January 2, 2020, Release (nRH2003532478)

According to the State of New Mexico C-141 Initial Report, the **nRH2003532478** release was discovered on January 2, 2020. The release occurred as the result of a flowline leak causing a release of approximately 1.4 barrels (bbls) of crude oil and 53.7 bbls of produced water, of which 0 bbls of fluids were reported as recovered during the initial response activities. The release notification was received by the New Mexico Oil Conservation District (NMOCD) on January 1, 2020. The NMOCD assigned this release Incident Identification (ID) **nRH2003532478**. The approximate release extent is shown in **Figure 3A**.

October 12, 2021, Release (nAPP2129936218)

According to the State of New Mexico C-141 Initial Report, the **nAPP2129936218** release was discovered on October 12, 2021. The release occurred as the result of flowline failure due to corrosion releasing approximately 7 barrels (bbls) of crude oil and 128 bbls of produced water, of which 0 bbls of fluids were reported as recovered during the initial response activities. The NMOCD received the release notification on October 26, 2021, and subsequently assigned the Site the Incident Identification (ID) **nAPP2129936218**. The approximate release extent is shown in **Figure 3B**.

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SITE CHARACTERIZATION

Tetra Tech performed a Site characterization that included the identification of sensitive receptors, a depth to groundwater determination, and assessment of site soils. Site Characterization data are included in **Attachment 1**.

Receptors

Tetra Tech performed a site characterization and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, private domestic water wells, springs, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.0029 New Mexico Administrative Code (NMAC). According to the Bureau of Land Management (BLM) the Site is in an area of low karst potential.

A playa lake wetland characterized as a 3.42 acre Palustrine Unconsolidated Bottom Semipermanently Flooded Excavated (PUBFx) is mapped southwest of the Site by the United States Department of Agricultural National Wetlands Inventory. This wetland is however not mapped on the New Mexico State Land Office Land Status map or the NMOCD Oil and Gas Map previously relied upon for Site Characterization. The identified wetland along with a 300-foot buffer is shown in **Figures 6** and **7**.

Depth to Groundwater

The Site is within a New Mexico oil and gas production area. According to the New Mexico Office of the State Engineers (NMOSE) database, there are 8 wells within a ½ mile (800-meter) radius of the Site with an average depth to groundwater at 60 feet below ground surface (bgs). Additionally, Basin Environmental advanced a depth-to-water boring to a depth of 50 feet on February 11, 2016. The boring was located at 32.787554°, -103.449746°, approximately 800 feet south of the Site. The depth to water boring did not identify any groundwater in the upper 50 feet.

Soils

According to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), the Site is mapped as Kimbrough-Lea complex, dry, 0 to 3 percent slopes, which is classified as a loam soil.

REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 New Mexico Administrative Code (NMAC), per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization including a wetland within 300 feet of the release location, and in accordance with Table I of 19.15.29.12 NMAC, the RRALs for areas of the Site are as follows:

Reclamation Requirements

Constituent	Reclamation Requirements
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

INITIAL RESPONSE AND ASSESSMENT ACTIVITIES

Initial Site Assessment and Analytical Results

An initial site assessment was conducted by Tetra Tech on behalf of COP in 2020 when Tetra Tech personnel collected soil samples within and around the release extent to delineate the vertical and horizontal extent of the release. In October 2021, prior to the submittal of a Release Characterization and Remediation Work Plan report to the NMOCD, a subsequent release (Incident ID nAPP2129936218) occurred that coincided with the January 2020 release footprint. Thus, the laboratory analytical results associated with the August and September 2020 soil assessments were no longer applicable in characterizing the existing contamination. Therefore, an additional site assessment was conducted following the October 2021 release to characterize the two overlapping areas.

Initial Response and Remedial Activities

In accordance with 19.15.29.8. B. (4) NMAC “the responsible party may commence remediation immediately after discovery of a release”, COP elected to begin remediation of the impacted area in early 2020. Two sections of the release footprint were excavated by COP subcontractor, McNabb Partners, with heavy equipment to approximately 1 foot bgs in the eastern portion and 2 to 3 feet bgs in the western portion to remove the visually impacted soils. Approximately 256 cubic yards of contaminated material were removed and transported to an NMOCD-approved facility.

In response to the October 2021 release, McNabb removed approximately 6 inches of visually impacted material from the entire release footprint, where accessible. Approximately 218 cubic yards of material were removed and properly disposed of. Approximate release extent and initial response extents are shown in **Figures 3A** and **3B**.

Additional Site Assessment

In order to achieve horizontal and vertical delineation of the **nRH2003532478** release extent, Tetra Tech personnel completed 17 soil borings (BH-22-01 through BH-22-17) on February 16 and 17, 2022, and March 8, 2022, on behalf of COP. Site assessment locations are summarized in **Table 1** and shown in **Figures 3A** and **3B.**

BH-22-01 through BH-22-06 were installed within the release footprint to delineate the vertical extent and BH-22-07 through BH-22-17 were installed around the perimeter of the release footprint to delineate the horizontal extent of the impacted soil. Boring logs are presented in **Attachment 2**.

A total of 55 soil samples were collected from the 17 boring locations and submitted to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico to be analyzed for a combination of BTEX by Method 8021B, TPH by Method 8015M, and chloride by Method 300.0.

Summary of Assessment and Characterization

During the additional assessment event in 2022, the analytical results associated with boring locations BH-22-01 through BH-22-08 were reported at concentrations greater than RRALs for TPH and/or chloride in soils to a depth of 3 feet below surrounding grade. All other analytical results were below reclamation requirements and RRALs in areas greater than 300 feet from the PUBFx wetland to the southeast of the release point.

For areas within 300 feet of the wetland, the following areas are impacted above Reclamation Requirements for chloride and/or TPH:

- BH-22-04 to a depth of 3 feet bgs;
- BB-22-05 to a depth of 5 feet bgs; and
- BH-22-06 to a depth of 7 feet bgs.

The horizontal extent of the release footprint was defined through air rotary borings. BH-22-07 and BH-22-16 bound the release to the west; BH-22-12 bounds the release to the east; BH-22-08, BH-22-09, BH-22-10, BH-22-11, and BH-22-17 bound the release to the north; and BH-22-13, BH-22-14 and BH-22-15 bound the release to the south. These borings meet the requirements for horizontal delineation per 19.15.29.11(A)(5)(b) NMAC.

Analytical results from the sampling events demonstrate that both horizontal and vertical delineation was achieved during the February and March 2022 assessment activities. Soil assessment sampling laboratory analytical results screened against Reclamation Requirements are summarized in **Table 2**. Soil assessment laboratory analytical data packages including chain-of-custody documentation were previously submitted under Incident ID nAPP2129936218 from the NMOCD Permitting portal.

REMEDIATION WORK PLANS AND NMOCD APPROVALS

Tetra Tech prepared the Release Characterization and Remediation Work Plans (Work Plans) for both releases on behalf of the former operator (ConocoPhillips). Maverick took over operations of the site from ConocoPhillips in June of 2022.

The Work Plan for incident **nRH2003532478** was submitted to NMOCD on July 14, 2021, and approved on November 8, 2021. A subsequent extension request was granted to June 30, 2022. However, just prior to the extension deadline, Maverick acquired the site. The proposed reclamation and remediation areas and depths from that work Plan are depicted in **Figure 4A**.

The Work Plan for incident **nAPP2129936218** was submitted to NMOCD on March 2, 2022, and approved on March 29, 2022. On behalf of Maverick, Tetra Tech requested an extension on June 21, 2022, but the Request was denied by the NMOCD on June 22, 2022. The proposed reclamation and remediation areas and depths from that work Plan are depicted in **Figure 4B**.

CULTURAL RESOURCES SURVEY

To comply with 1.10.15 NMAC and New Mexico State Land Office (NMSLO) requirements, Tetra Tech contracted SWCA Environmental Consultants to perform a Class III Cultural Resources Survey for the remediation area under New Mexico Cultural Resources Investigation System (NMCRIS) Activity No. 152942. Mr. Jacob Borchardt of SWCA conducted the survey on May 15, 2023, which included an intensive pedestrian survey of the EVGSAU 3440-002 remediation site and immediate vicinity covering 5.87 acres, which included a 100-feet cultural resources buffer around the location.

No archaeological sites or historic properties were observed during the cultural resources investigation. No additional investigation or treatment was recommended regarding the undertaking. No subsurface cultural materials were encountered during remediation. The cover page from the Class III Cultural Resources Survey is included in **Attachment 3**.

INITIAL REMEDIATION AND CONFIRMATION SAMPLING

Based on the soil assessment and delineation results for the two releases and the approved remediation work plans, the areas of impact had significant overlap. Therefore, the remediation areas for both incidents were conducted as one field remediation project in accordance with the two NMOCD-approved remediation work plans. Excavation activities commenced on June 26, 2023, and concluded on August 23, 2023.

Excavation activities commenced on June 26, 2023, and concluded on August 8, 2023. Maverick's subcontractor, McNabb Partners (McNabb) used heavy equipment to excavate impacted soil from the remediation area to depths of between 3.5 and 6.0 feet bgs. To avoid potential contact by heavy equipment with pressurized lines within the remediation area, heavy equipment was maintained at a distance of at least 2 feet from pressurized lines where hydro-excavation and hand-digging were employed. McNabb excavated a total of 6,835 cubic yards of contaminated soil with an approximate area of 24,500 square feet. Excavated material was transported to R360 Halfway Disposal and Landfill in Hobbs, New Mexico, for offsite disposal. Photographic documentation showing the open excavation is provided in **Attachment 4**. **Figure 5** depicts the areas and depths excavated during the.

Confirmation Sampling

Upon reaching the final lateral and vertical and lateral extents of the excavation, Tetra Tech collected 44 confirmation samples, including 16 five-point composite floor samples and 28 five-point composite side wall samples from the excavated areas. The confirmation sample locations are shown in **Figure 5**. Collected confirmation samples submitted to Cardinal Laboratories in Hobbs, New Mexico under chain-

of-custody documentation for analysis of BTEX by Method 8021B, TPH by Method 8015M, and chloride by Method SM4500 CL-B.

Floor samples BH-8 (3.5') and sidewall samples SW-1, SW-3, SW-4, SW-5, SW-6, SW-7, SW-8, SW-10, SW-11, SW-13, SW-14, SW-15, SW-16, SW-17, SW-18, SW-20, and SW-21 reported concentrations of Chloride and/or TPH as greater than Reclamation requirements. Additional lateral and vertical excavation were undertaken at these locations prior to reaching the final limits of excavation and final confirmation samples were then taken which reported concentrations as less than Reclamation Requirements. In the case of floor sample BH-8 (3.5'), the excavation was extended from 3.5 feet bgs to 4.5 feet bgs. Likewise, when sidewall samples exceeded reclamation requirements, the excavation was extended laterally until reclamation requirements were achieved, and an additional sample was taken to confirm the results. In four locations, SW-3, SW-8, SW-17, and SW-18, it took two or more additional attempts at excavation and sampling.

Confirmation sample laboratory analytical results screened against Reclamation Requirements for confirmation soil samples are presented in **Tables 2** and **3** laboratory analytical data packages including chain of custody documentation are included in **Attachment 5**. Photographic Documentation showing the excavated areas and final grading after backfilling is provided in **Attachment 4**.

Excavation Backfill

Between August 8 and August 11, 2023, subsequent to the receipt of final confirmation sampling results, McNabb completed backfilling of the excavated areas with 6,835 CY of clean topsoil obtained from the Seth Boyd Pit. Photographic Documentation showing the backfilled areas and final grading after backfilling is provided in **Attachment 4**.

Reclamation and Revegetation

To restore the impacted surface areas to the condition that existed prior to the releases, backfilled and disturbed areas were graded back to match the surrounding topography and the pre-existing conditions prior to contouring to provide erosion control, long-term stability, prevent ponding of water, and preserve surface water flow patterns.

Subsequent to restoring topography and contouring the disturbed areas, disturbed areas of the Site were seeded with New Mexico State Land Office (NMSLO) Loamy (L) Sites Seed Mixture to aid in vegetation growth to complete reclamation in accordance with the Site soil profile detailed above in the Site Characterization Section. Seeding was broadcast and raked, into the soil in accordance with the specifications for broadcast application in pound pure live seed per acre specified in the NMSLO Seed Mix Loamy (L) data sheet provided in **Attachment 6**.

NMOCD AND NMSLO CLOSURE REPORT REJECTION

On October 26, 2023, Tetra Tech submitted the Remediation Report and Closure Request for the Site to the NMOCD demonstrating that remediation of the two incidents had been conducted in accordance with both of the previously submitted and NMOCD-approved site characterization and remediation work plans.

On February 15, 2024, the NMOCD rejected the submitted report in conflict with the two NMOCD-approved remediation work plans. This section responds to NMOCD comments to provide clarification, further detail, and/or actions taken by Maverick where appropriate. To provide clarity, the NMOCD rejection comments are reiterated below along with Maverick's response.

"Release must be remediated to the strictest Table I Closure Criteria for soils per 19.15.29.12(C)4 NMAC as site is within 200 feet of any lakebed, sinkhole or playa lake. Figures in report show the playa lake at the bottom right hand side. The National Wetlands Inventory lists this depression as a wetland, classified as PUBF."

COP previously relied upon the NMOCD Oil and Gas Map and NMSLO Land Status maps when conducting the Site Characterization. Neither of these state-published sources that contain probable playa lake data and waterbody data map this wetland. Maverick agrees that portions of the site are within 200 feet of a lakebed, sinkhole, or play lake, and within 300 feet of an NWI mapped wetland as discussed above in the revised Site Characterization, and that these portions of the Site should be remediated to the strictest Table I Closure Criteria.

"Delineation borehole samples show chloride concentrations above the < 50 feet to ground water standards at depths of up to 20 feet bgs. In addition, excavation floor samples exceeded < 50 feet ground water standards. Remediation needs to occur to address these exceedances before closure can be approved."

Maverick agrees that delineation borehole samples show chloride concentrations above remediation standards for groundwater < 50 feet at depths of up to 20 feet bgs, at the following locations:

- BH-22-01 to a depth of 20 feet bgs;
- BH-22-02 to a depth of 10 feet bgs; and
- BH-22-03 to a depth of 10 feet bgs.

Based on the revised Site Characterization, Maverick identifies the following areas with Site assessment and soil confirmation sampling locations within 300 feet of the nearest edge of the wetland as requiring additional remediation:

Western 4.0' Excavation

The 4' excavation surrounding BH-22-01, BH22-02, BH22-08, and floor confirmation samples for this section of the remediation including BH-1, BH-2, BH-3, BH-5, and BH-6 demonstrate remaining chloride concentrations greater than 600 mg/kg between the base of the initial remediation excavation at 4.0 feet bgs and to at least 10.0 feet bgs with Soil assessment data not clearly demonstrative of actual regulatory exceedances down to 20 feet at one location, requiring additional assessment as discussed below.

Western 3.5' Excavation

The 3.5-foot excavation surrounding BH-22-03 reported chloride concentrations greater than reclamation requirements down to a depth of 10 feet bgs, therefore additional remediation excavation will be required down to approximately 10 feet bgs to address chloride from 6 to 10 feet bgs.

Eastern 5.0'

The 5-foot excavation surrounding BH-22-06 and floor confirmation samples for this section of the remediation including BH-13, BH-14, BH-15, and BH-16 demonstrate remaining chloride concentrations greater than 600 mg/kg between the base of the initial remediation excavation at 5.0 feet bgs to 7.0 feet bgs that will require additional remediation.

Central 4.5' and 6.0' Excavations

The central 4.5-foot and 6.0-foot excavations surrounding confirmation sample locations BH-8 and BH-9 include floor confirmation samples BH-8 and BH-9 that demonstrate remaining chloride concentrations greater than 600 mg/kg at the base of the excavations that will require additional remediation.

"Per 19.15.29.12(D)1(a) NMAC, "The responsible party must verbally notify the appropriate division district office two business days prior to conducting final sampling." This has not been included.

Tetra Tech and Maverick understand that failure to notify the NMOCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted. Tetra Tech failed to notify the NMOCD of Initial Remediation sampling two business days in advance. Tetra Tech will perform sample notification in accordance with 19.15.29.12(D)1(a) NMAC in the future.

Before collecting samples, a C-141N must be submitted via epermitting at least two business days prior to collecting samples or they will not be approved for closure."

Tetra Tech submitted the Remediation Report and Closure Request on October 26, 2023, prior to the implementation of the NMOCD implementation of the Digital C-141 and C-141N notification processes, therefore, it was not possible to submit a C-141N during the execution of the Initial Remediation activities described above.

Tetra Tech has retroactively submitted sampling notifications for previously collected remediation confirmation samples. Tetra Tech will adhere to the sampling notification requirements of 19.15.29.12.D.(1).(a) NMAC and NMOCD notification guidance for future sampling. Tetra Tech is currently submitting C-141N notifications two business days prior to conducting any remediation confirmation sampling.

"On page 4 of report, two other incident numbers are listed-nRM1930950727 and nAPP2117456525. This report is supposed to address nRH2003532478 and nAPP2129936218. Is there a reason for this reference? Submit new closure report to OCD by May 15, 2024."

The referenced incident numbers were incorrectly included in the initially submitted Remediation Report and Closure Request. Incident numbers have been corrected within this report.

ADDITIONAL REMEDIATION WORK PLAN

Based on the revised site characterization and analytical results from the site assessment and initial remediation, Maverick proposes to conduct additional remediation activities to remove the remaining impacted soil at concentrations greater than Reclamation Requirements where positively demonstrated. Proposed additional remediation extents are shown in **Figure 6**.

Additional Excavation – Western and Central Excavations

The Western 3.5' excavation, Central 4.5' and 6.0' excavations, and the Eastern 5.0' excavation described in detail above are proposed to be re-excavated to the Initial Remediation excavation depths of 3.5, 4.5, 6.0, and 5.0 feet bgs, respectively. The removed clean backfill will be stockpiled on site away from the excavations. Validation samples will be collected from the removed material at a frequency of one five-point composite sample per 100 cubic yards as directed by the NMOCD in the rejected Interim Remediation Report and Revised Additional Remediation Work Plan dated June 17, 2024, to ensure the material is suitable for re-use.

Soils at these locations with demonstrated constituents greater than Reclamation Requirements at soil assessment or initial remediation sampling locations will be excavated and disposed of. Upon reaching the final excavation depths, Maverick will collect 5-point composite confirmation samples on a 200-square-foot basis as directed by the NMOCD to demonstrate clean margins. Over-excavation will be conducted, as necessary, until confirmation sample results report constituents as less than Reclamation Requirements.

Excavated soils will be transported offsite and disposed of at R360 Halfway Disposal and Landfill in Hobbs, New Mexico. The estimated volume of material remaining in this area requiring remediation and reclamation is approximately 1,500 cubic yards.

Additional Site Assessment – Western 4.0' Excavation

The Western 4.0' excavation is proposed to be the subject of additional soil sampling assessment to confirm and better define potential impacts previously reported at BH-22-01, BH-22-02, and BH-22-08. The chloride concentration reported in BH-22-01 from the 14-15 feet bgs sample reported a chloride concentration marginally above the reclamation requirement and the chloride concentration reported from the 19-20 feet bgs sample was flagged QM-07 by the laboratory for spike recovery reported outside of acceptance limits for the Method Spike and/or Method Spike Duplicate sample, therefore this datapoint is unreliable.

Maverick proposes to mobilize a drill rig to the site and the Western 4.0' excavation area and 8 additional soil boring will be advanced within the area, three of which will be immediately adjacent to the BH-22-01, BH-22-02, and BH-22-08 locations. Borings will be advanced to 20 feet bgs and sampled at will be sampled at 6-7 foot, 9-10 foot, 12-13 foot, 14-15 foot, and 19-20 foot bgs intervals. Samples will be submitted to Cardinal Laboratory for the analysis of chloride and TPH.

Additional Excavation – Western 4.0' Excavation

Subsequent to the Additional Site Assessment, the Wester 4.0' excavation will be re-excavated down to 4.0 feet bgs and the removed clean backfill will be stockpiled. Validation samples will be collected from the removed material at a frequency of one five-point composite sample per 100 cubic yards, as directed by the NMOCD, to ensure the material is suitable for re-use.

The area will then be excavated deeper based on the Additional Site Assessment sampling results. Remaining soil with constituents greater than Reclamation Requirements will be excavated and disposed of. Upon reaching excavation depths informed by the Additional Site Assessment results, Maverick will collect 5-point composite confirmation samples on a 200-square-foot basis as directed by the NMOCD to demonstrate clean margins. Vertical and lateral over-excavation will be conducted, as necessary, until confirmation sample results report constituents as less than Reclamation Requirements. Excavated soils will be transported offsite and disposed of at R360 Halfway Disposal and Landfill in Hobbs, New Mexico. The estimated volume of material remaining in this area requiring remediation is to be determined based on the Additional Site Assessment.

Alternative Confirmation Sampling Plan

In accordance with 19.15.29.12(D)(1)(b) NMAC, Maverick Proposes an alternative confirmation sampling plan to include five-point confirmation samples of the excavation bases and sidewalls at a density of one (1) sample per 200 square feet. Additionally, as Site assessment samples and Initial Remediation confirmation samples for the additional remediation depths indicate that assessment BTEX concentrations were only detected in materials already excavated and no BTEX was detected in any of the Interim Remediation confirmation samples, Maverick requests approval to submit Additional Remediation confirmation samples to Cardinal Laboratory for analysis of TPH and chloride only to verify remedial activities.

The NMOCD will be notified at least two business days in advance of Additional Remediation confirmation sampling in accordance with 19.15.29.12(D)1(a) NMAC via submission of a C-141N application in the NMOCD Permitting portal under the two incident numbers.

Excavation Backfill

Subsequent to the receipt of analytical results demonstrating remediation has been completed the excavated areas will be backfilled. If validation samples report BTEX, chloride, and TPH concentrations as less than Reclamation requirements, then excavated clean backfill placed during the Initial Remediation will be used to backfill the excavations. If the validation sample results do not meet

Reclamation requirements, the material will be disposed to R360 Halfway Landfill and Disposal in Hobbs, New Mexico. Required clean topsoil to backfill the excavation to the surface will be sourced from a nearby pit matching the site soil type at the Site identified above in the Site Characterization section.

Reclamation and Revegetation

To restore the impacted surface areas to the condition that existed prior to the releases, backfilled and disturbed areas will be graded back to match the surrounding topography and the pre-existing conditions prior to contouring to provide erosion control, long-term stability, prevent ponding of water, and preserve surface water flow patterns.

Subsequent to restoring topography and contouring the disturbed areas, disturbed areas of the Site will be seeded with New Mexico State Land Office (NMSLO) Loamy (L) Sites Seed Mixture to aid in vegetation growth to complete reclamation in accordance with the Site soil profile detailed above in the Site Characterization Section. Seeding will be broadcast and raked, harrowed, or disced into the soil in accordance with the specifications for broadcast application in pound pure live seed per acre specified in the NMSLO Seed Mix Loamy (L) data sheet provided in **Attachment 6**.

Schedule

Upon NMOCD and NMSLO Additional Remediation Work Plan approval, Maverick will initiate remediation activities at the Site within 90 days anticipated to be November 30, 2024, and anticipates the Additional Site Assessment and remediation will take eight weeks to complete.

CONCLUSIONS

This Revised Additional Remediation Work Plan presents a strategy to complete remediation in the areas where impacted material remains beneath the previously remediated areas to address chloride impacts greater than reclamation requirements. If this is acceptable, upon completion of the proposed work, a final closure report comprehensively detailing all remediation activities and the results will be submitted to NMOCD for each release incident. If you have any questions concerning the remediation activities for the Site, please call me at (832) 252-2093.

Sincerely,

Chris Straub
Project Manager
Tetra Tech, Inc.

Charles H. Terhune IV, P.G.
Program Manager
Tetra Tech, Inc.

Cc:
Mr. Bryce Wagoner – Maverick Natural Resources
New Mexico State Land Office

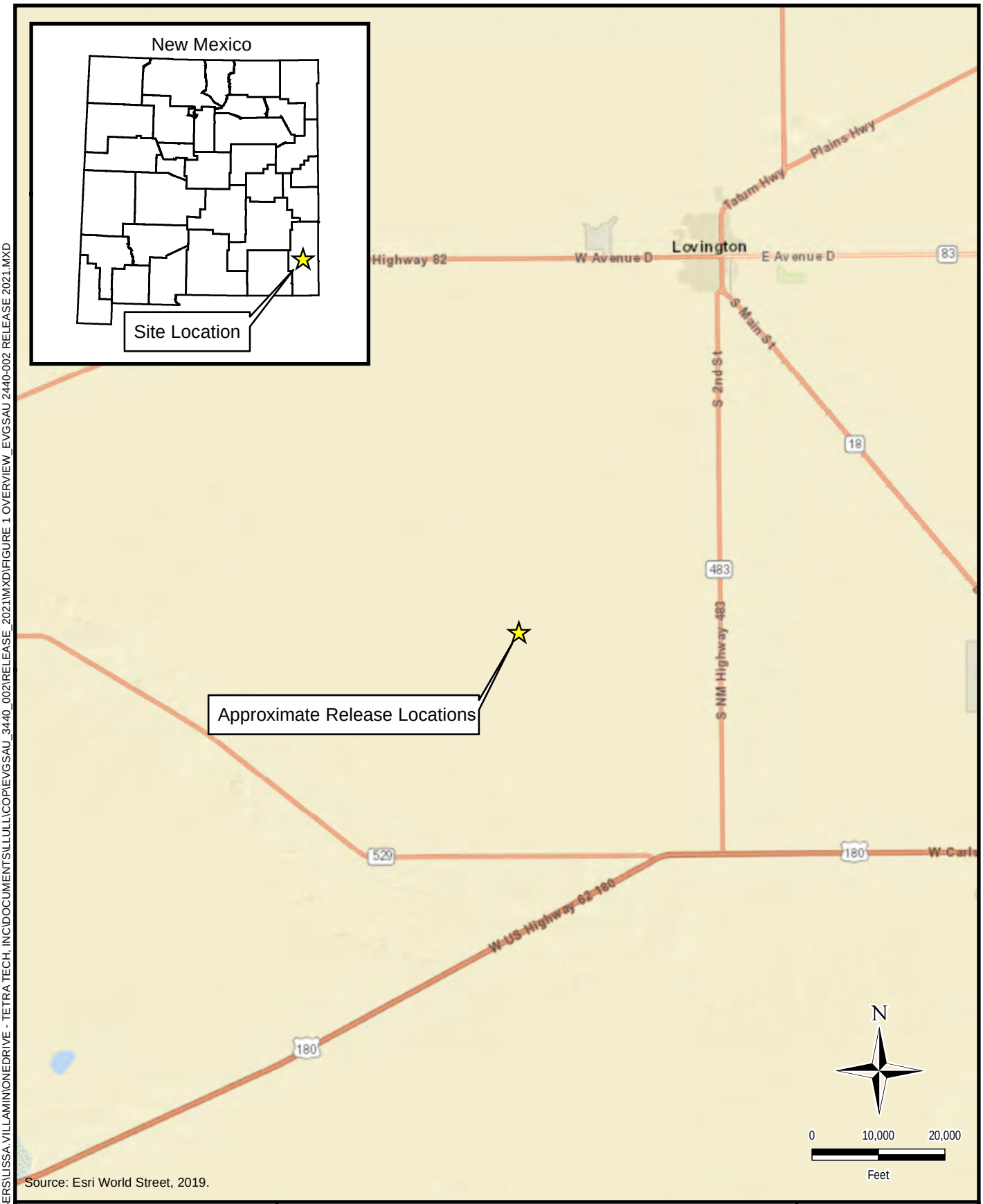
LIST OF ATTACHMENTS

Figures:

Tables:

Attachments:

FIGURES



DOCUMENT PATH: C:\USERS\LISSA.VILLAMIN\ONEDRIVE - TETRA TECH, INC\DOCUMENTS\LULL\COP\EVGSAU_3440_002\RELEASE_2021\MXD\FIGURE 1 OVERVIEW_EVGSAU 2440-002 RELEASE 2021.MXD

TETRA TECH
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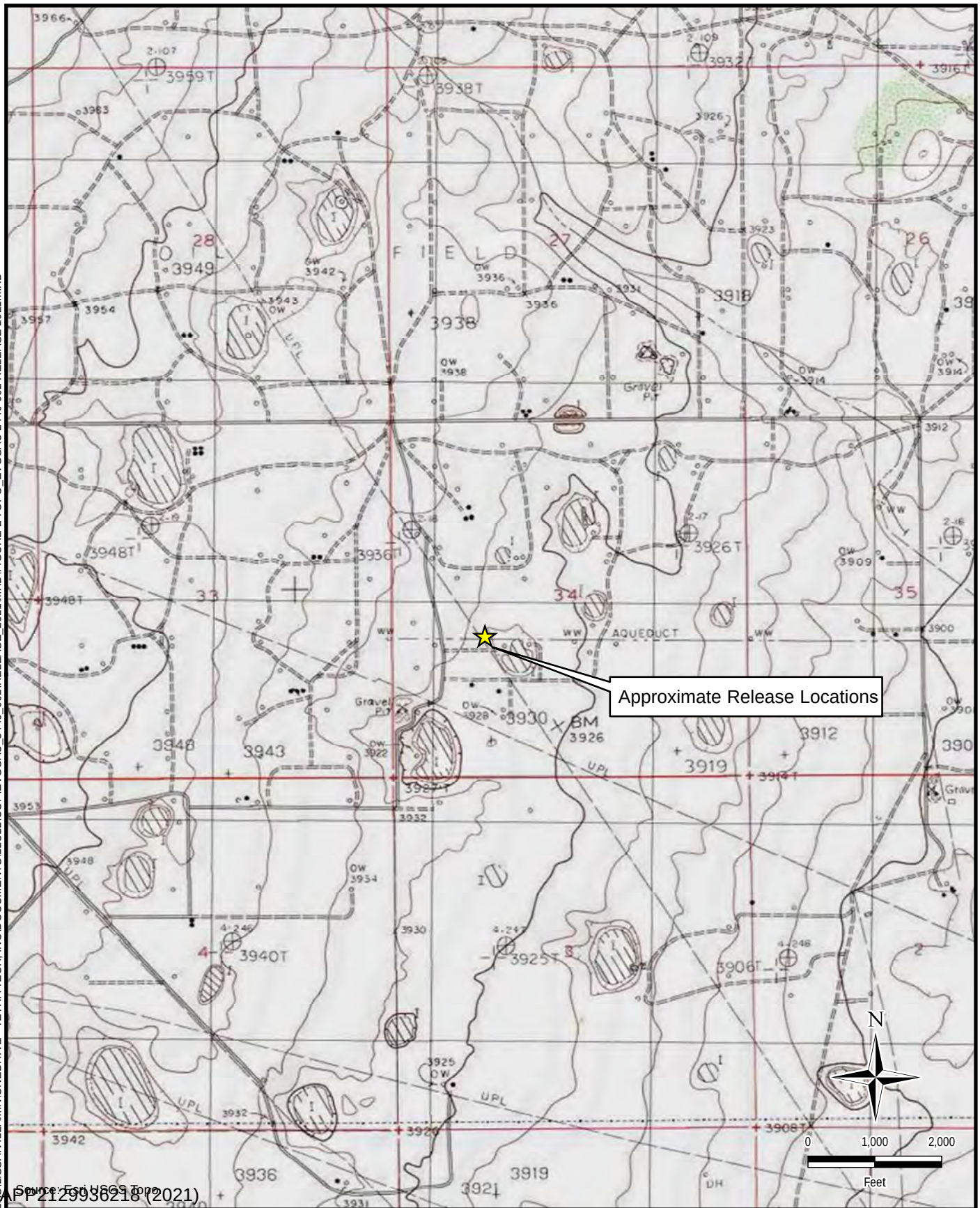
MAVERICK PERMIAN, LLC

NRH2003532478 & NAPP2129936218
(32.789749°, -103.449656°)
LEA COUNTY, NEW MEXICO

EVGSAU 3440-002 RELEASE**S**
SITE LOCATION MAP

PROJECT NO.:	212C-HN-02255
DATE:	MARCH 14, 2022
DESIGNED BY:	LMV

Figure No.
1



Source: Esri USGS Topo

DOCUMENT PATH: C:\USERS\MELISSA.VILLAMIN\ONEDRIVE - TETRA TECH, INC\DOCUMENTS\LULL\COP\EVGSAU_3440_002\RELEASE_2021\MXD\FIGURE 2 TOPO_EVGSAU 2440-002 RELEASE 2021.MXD

0.22.kmz/NAPP2129936218 (2021)

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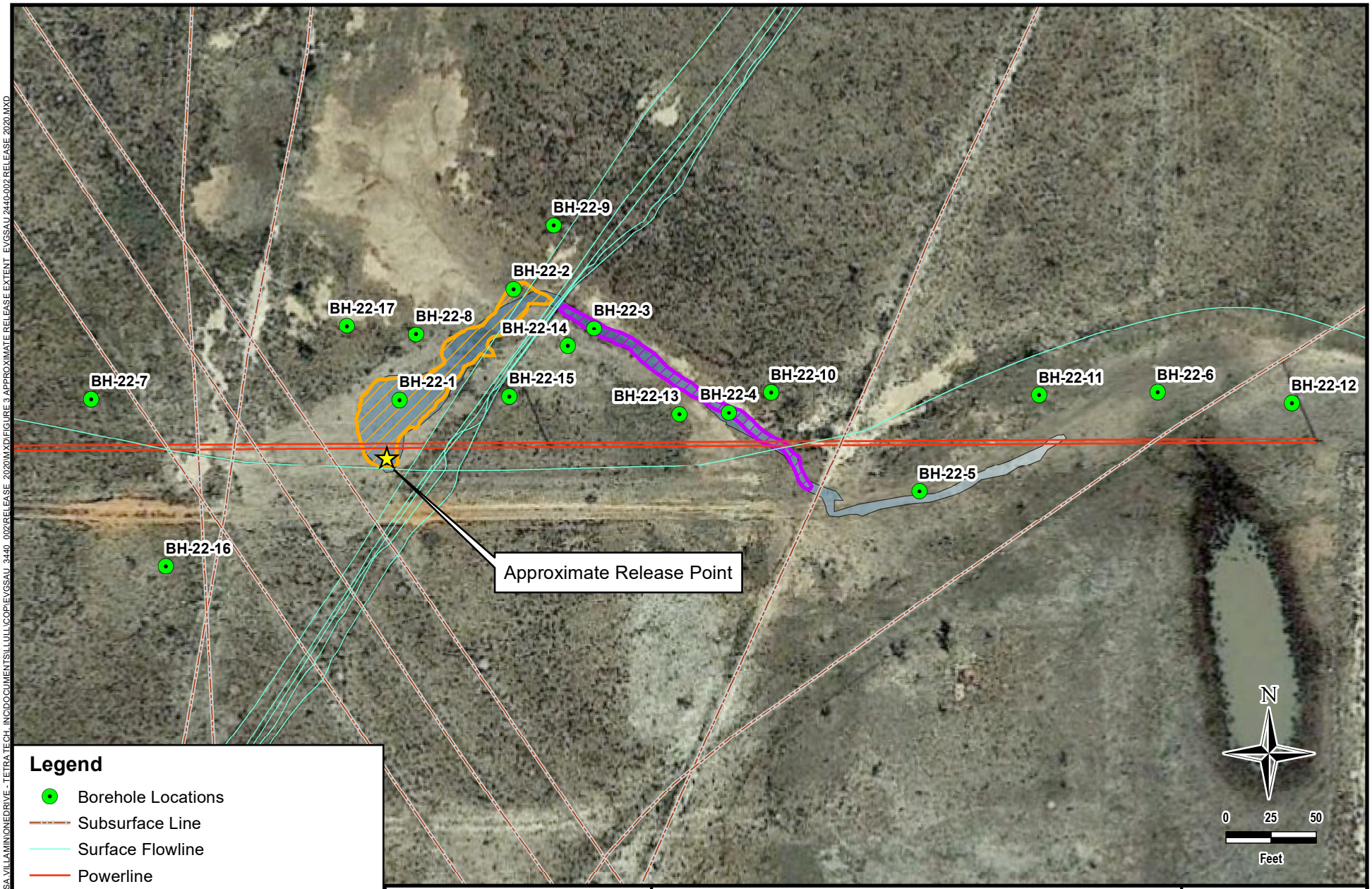
MAVERICK PERMIAN, LLC

NRH2003532478 & NAPP2129936218
(32.789749°, -103.449656°)
LEA COUNTY, NEW MEXICO

EVGSAU 3440-002 RELEASES
TOPOGRAPHIC MAP

PROJECT NO.:	212C-HN-02255
DATE:	MARCH 14, 2022
DESIGNED BY:	LMV

Figure No.
2



DOCUMENT PATH: C:\USERS\LISSA.VILLAMIN\ONEDRIVE - TETRA TECH, INC\DOCUMENTS\LLULL\COP\EVGSAU 3440 002\RELEASE 2020\MXD\FIGURE 3 APPROXIMATE RELEASE EXTENT EVGSAU 2440-002 RELEASE 2020.MXD

Legend

- Borehole Locations
- Subsurface Line
- Surface Flowline
- Powerline
- Approximate Release Extent
- Initial Response Excavation - 1' bgs
- Initial Response Excavation - 3' bgs

*BGS- Below Ground Surface
Image Source: Google Earth, 2017.

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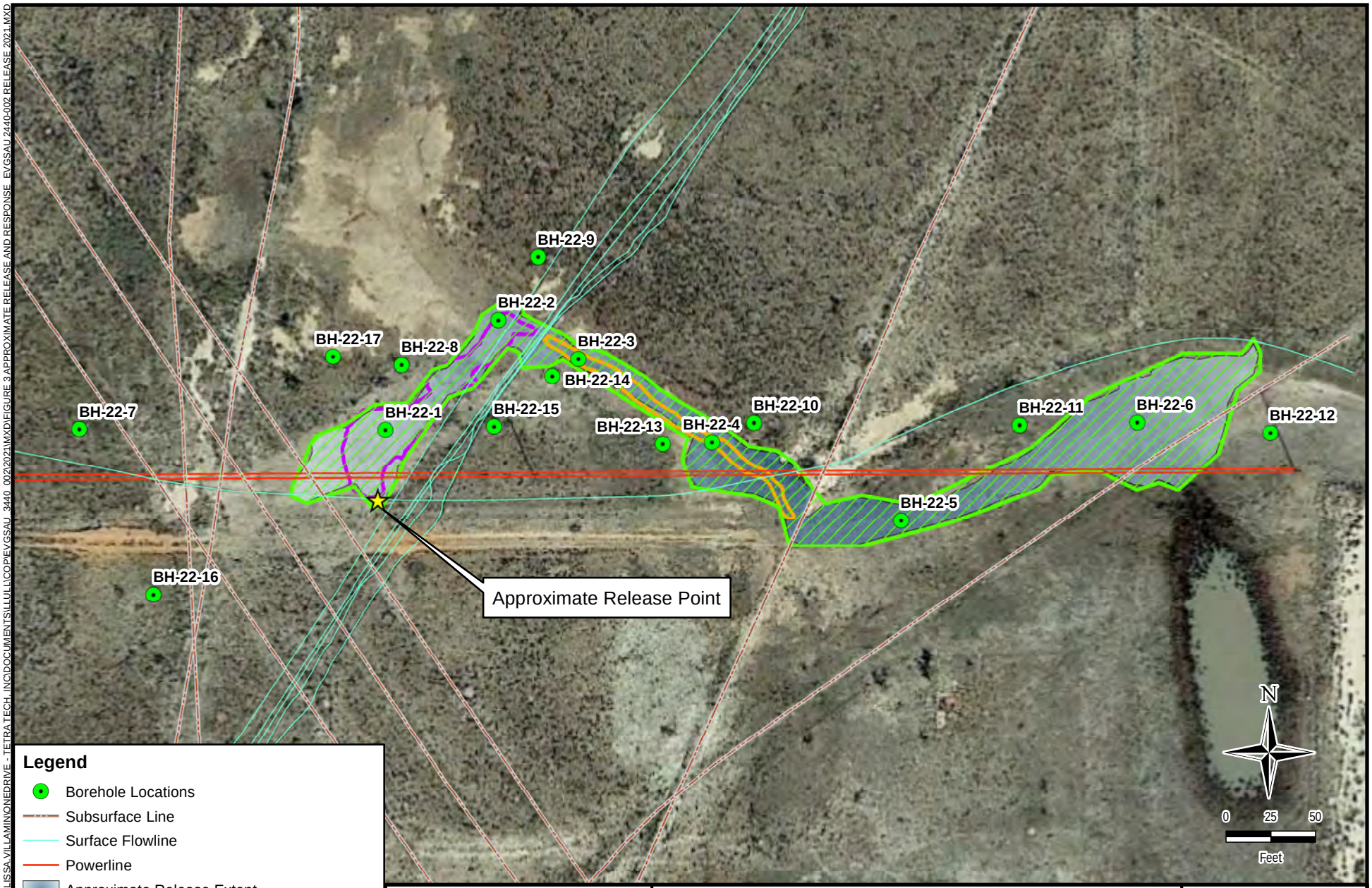
CONOCOPHILLIPS

NRH2003532478
(32.789769°, -103.449665°)
LEA COUNTY, NEW MEXICO

EVGSAU 3440-002 RELEASE (2020)
APPROXIMATE RELEASE EXTENT AND SOIL ASSESSMENT

PROJECT NO.:	212C-MD-02255
DATE:	APRIL 08, 2022
DESIGNED BY:	LMV

Figure No.
3A



DOCUMENT PATH: C:\USERS\LISSA.VILLAMIN\ONEDRIVE - TETRA TECH, INC\DOCUMENTS\LULLLCOP\EVGSAU - 3440-002\2021\MXD\FIGURE 3 APPROXIMATE RELEASE AND RESPONSE_EVGSAU 2440-002 RELEASE 2021.MXD

Legend

- Borehole Locations
- Subsurface Line
- Surface Flowline
- Powerline
- Approximate Release Extent
- Initial Response Excavation - 6" Scrape (2021)
- Initial Response Excavation - 1' bgs (2020)
- Initial Response Excavation - 3' bgs (2020)

Image Source: Google Earth, 2017.

TETRA TECH
www.tetratech.com
901 West Wall Street, Suite 100
Midland, Texas 79701
Phone: (432) 682-4559
Fax: (432) 682-3946

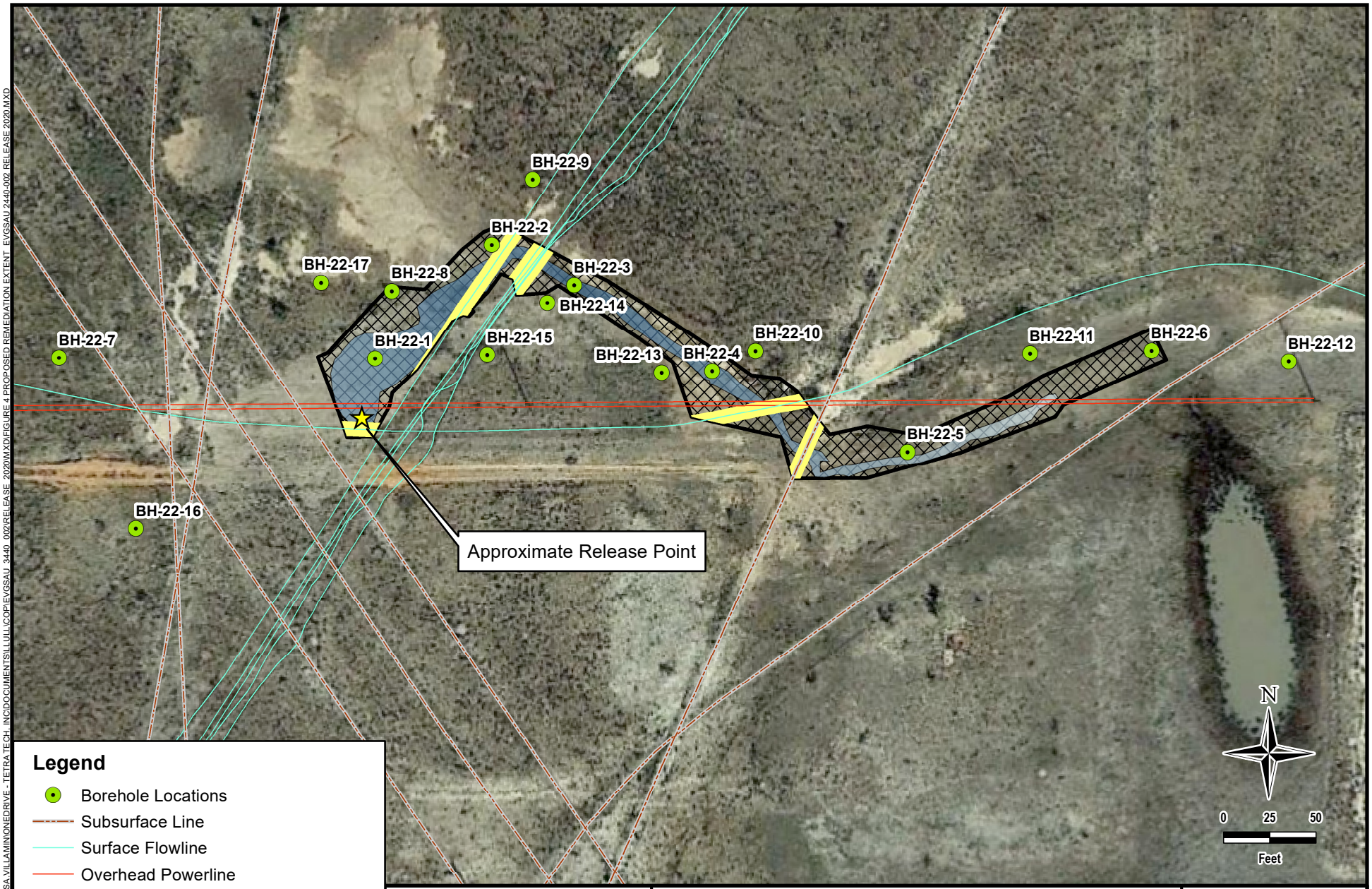
CONOCOPHILLIPS

NAPP2129936218
(32.789749°, -103.449656°)
LEA COUNTY, NEW MEXICO

EVGSAU 3440-002 RELEASE (2021)
APPROXIMATE RELEASE EXTENT AND INITIAL RESPONSE

PROJECT NO.:	212C-MD-02255
DATE:	APRIL 08, 2022
DESIGNED BY:	LMV

Figure No.
3B



DOCUMENT PATH: C:\USERS\LISSA.VILLAMIN\ONEDRIVE - TETRA TECH, INC\DOCUMENTS\LLULL\COP\EVGSAU 3440-002\RELEASE 2020\MXD\FIGURE 4 PROPOSED REMEDIATION EXTENT_EVGSAU 2440-002 RELEASE 2020.MXD

Legend

- Borehole Locations
- Subsurface Line
- Surface Flowline
- Overhead Powerline
- Approximate Release Extent
- Hand Dig Area
- Proposed Excavation - 4' bgs

*BGS- Below Ground Surface
Image Source: Google Earth, 2017.

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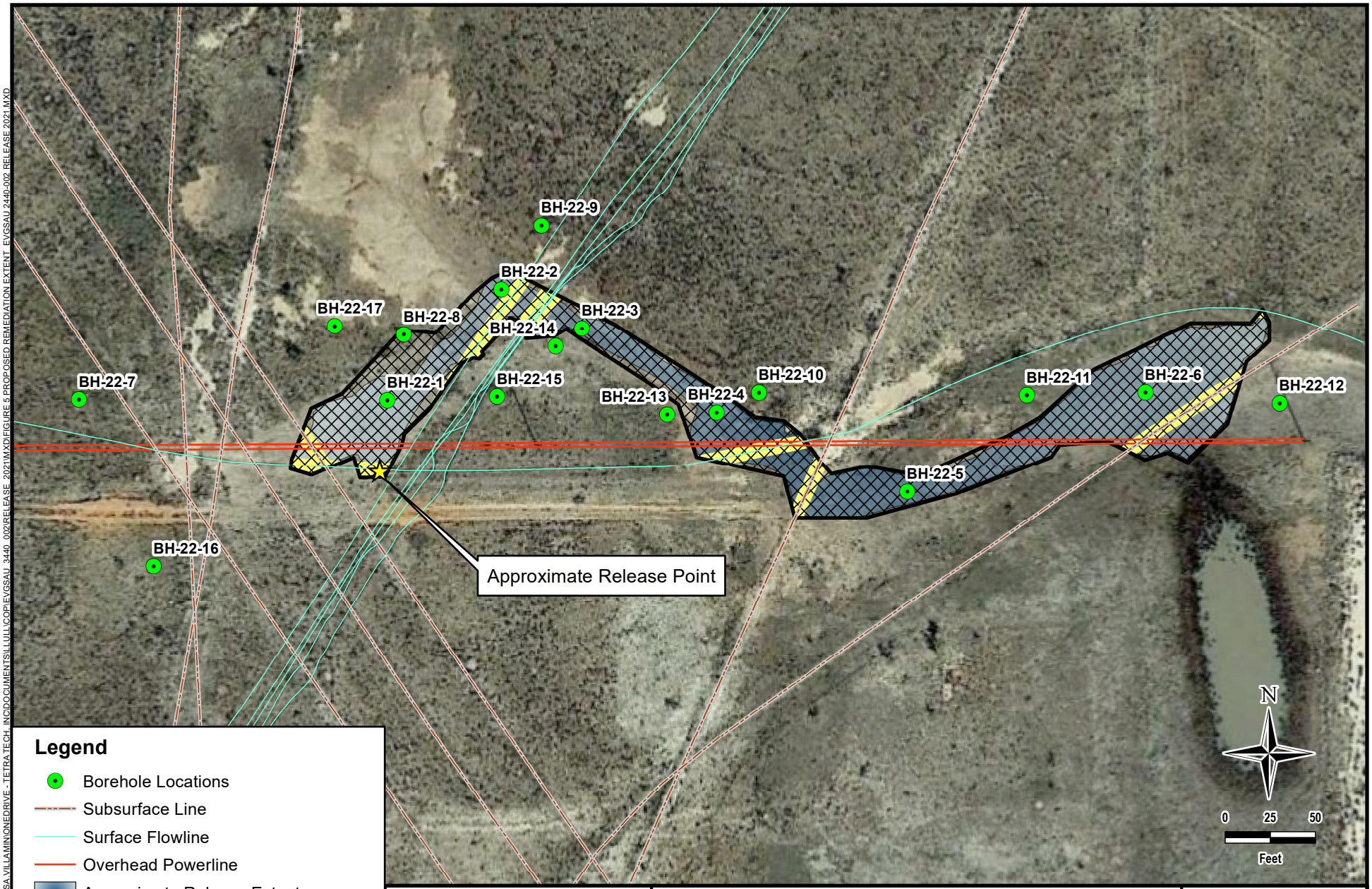
CONOCOPHILLIPS

NRH2003532478
(32.789769°, -103.449665°)
LEA COUNTY, NEW MEXICO

EVGSAU 3440-002 RELEASE (2020)
PROPOSED REMEDIATION EXTENTS

PROJECT NO.:	212C-MD-02255
DATE:	APRIL 08, 2022
DESIGNED BY:	LMV

Figure No.
4A



DOCUMENT PATH: C:\USERS\LISSA.VILLAMIN\ONEDRIVE - TETRA TECH, INC\DOCUMENTS\LLULL\COP\EVGSAU 3440 002\RELEASE 2021\MXD\FIGURE 5 PROPOSED REMEDIATION EXTENT_EVGSAU 2440-002 RELEASE 2021.MXD

Legend

- Borehole Locations
- Subsurface Line
- Surface Flowline
- Overhead Powerline
- Approximate Release Extent
- Proposed Excavation Extent - 4' bgs
- Hand Dig Area

*BGS- Below Ground Surface
Image Source: Google Earth, 2017.

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Fax: (432) 682-3946

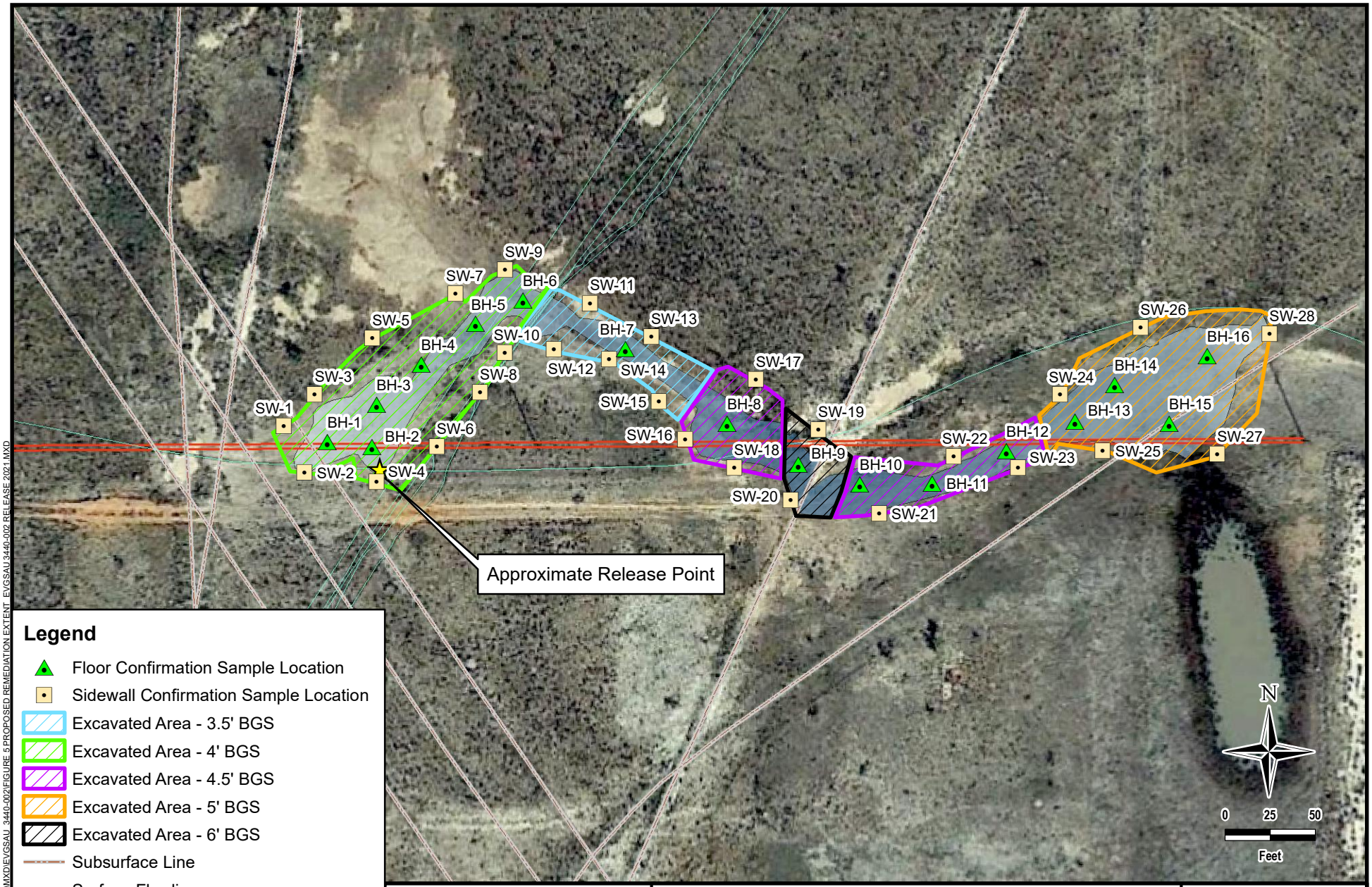
CONOCOPHILLIPS

NAPP2129936218
(32.789749°, -103.449656°)
LEA COUNTY, NEW MEXICO

EVGSAU 3440-002 RELEASE (2021)
PROPOSED REMEDIATION EXTENTS

PROJECT NO.:	212C-MD-02255
DATE:	APRIL 08, 2022
DESIGNED BY:	LMV

Figure No.
4B



Legend

- Floor Confirmation Sample Location
- Sidewall Confirmation Sample Location
- Excavated Area - 3.5' BGS
- Excavated Area - 4' BGS
- Excavated Area - 4.5' BGS
- Excavated Area - 5' BGS
- Excavated Area - 6' BGS
- Subsurface Line
- Surface Flowline
- Overhead Powerline
- Approximate Release Extent

*BGS- Below Ground Surface
Image Source: Google Earth, 2017.

DOCUMENT PATH: D:\MAVERICK\MXD\EVGSAU 3440-002\FIGURE 5 PROPOSED REMEDIATION EXTENT EVGSAU 3440-002 RELEASE 2021.MXD

TETRA TECH
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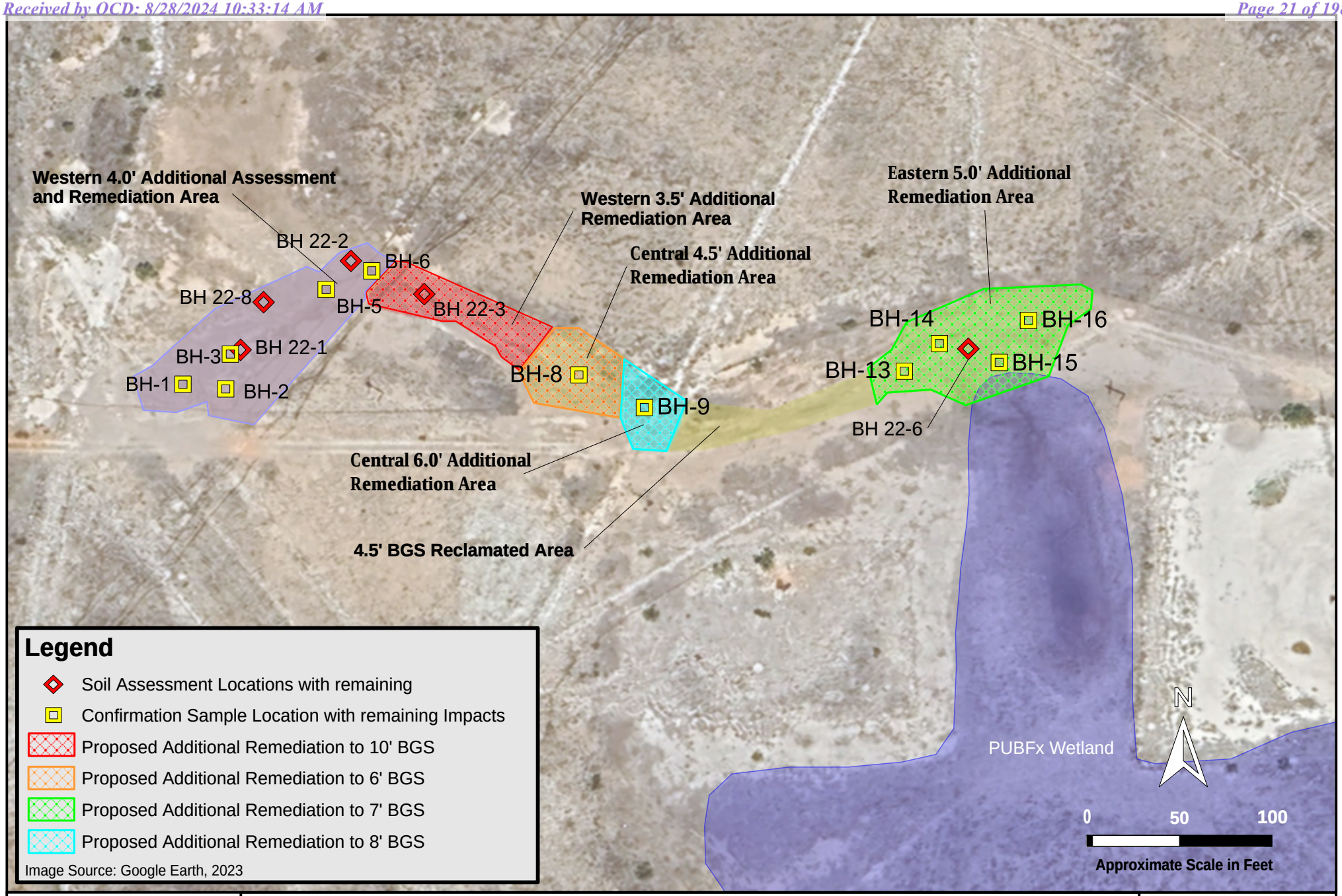
MAVERICK PERMIAN, LLC

NRH2003532478 & NAPP2129936218
(32.789749°, -103.449656°)
LEA COUNTY, NEW MEXICO

EVGSAU 3440-002 RELEASES
REMEDIATION EXTENT AND CONFIRMATION SAMPLING LOCATIONS

PROJECT NO.:	212C-HN-02255
DATE:	OCTOBER 12, 2023
DESIGNED BY:	LMV

Figure No.
5



Legend

- Soil Assessment Locations with remaining
- Confirmation Sample Location with remaining Impacts
- Proposed Additional Remediation to 10' BGS
- Proposed Additional Remediation to 6' BGS
- Proposed Additional Remediation to 7' BGS
- Proposed Additional Remediation to 8' BGS

Image Source: Google Earth, 2023

TETRA TECH
1500 CityWest Boulevard
Suite 1000
Houston, Texas 77042

MAVERICK PERMAIN, LLC
nRH2003532478 & nAPP2129936218
32.7894821°, -103.4476547° & 32.789948°, -103.44811°
LEA COUNTY, NEW MEXICO
EVGSAU 3440-002 FLOWLINE RELEASES
PROPOSED ADDITIONAL REMEDIATION EXTENTS MAP

PROJECT NO: 212C-HN-02255
DATE: AUGUST 15, 2024
DESIGNED BY: CHT

Figure No.
6

TABLES

TETRA TECH

TABLE 1
SOIL ASSESSMENT LOCATIONS
INCIDENT IDS NRH2003532478 & NAPP2129936218
MAVERICK PERMIAN, LLC
EVGSAU 3440-002 FLOWLINE RELEASES
LEA COUNTY, NEW MEXICO

Boring ID	Date	Latitude	Longitude
BH-22-1	2/17/2022	32.789856	-103.449641
BH-22-2	2/16/2022	32.790023	-103.449434
BH-22-3	2/17/2022	32.789962	-103.449290
BH-22-4	2/17/2022	32.789833	-103.449048
BH-22-5	2/16/2022	32.789710	-103.448706
BH-22-6	2/16/2022	32.789858	-103.448276
BH-22-7	2/16/2022	32.789843	-103.450160
BH-22-8	2/16/2022	32.789946	-103.449598
BH-22-9	2/16/2022	32.790116	-103.449360
BH-22-10	2/17/2022	32.789855	-103.448987
BH-22-11	2/17/2022	32.789842	-103.448483
BH-22-12	2/17/2022	32.789852	-103.448031
BH-22-13	2/17/2022	32.789833	-103.449118
BH-22-14	2/17/2022	32.789947	-103.449338
BH-22-15	2/17/2022	32.789866	-103.449442
BH-22-16	2/16/2022	32.789605	-103.450066
BH-22-17	3/8/2022	32.789968	-103.449720

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS
SOIL ASSESSMENT SAMPLING - INCIDENT IDS NRH2003532478 & NAPP2129936218
MAVERICK PERMIAN, LLC
EVGSAU FLOWLINE RELEASES
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride[1]		BTEX[2]										TPH[3]						
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH
															C_6 - C_{10}		> C_{10} - C_{28}		> C_{28} - C_{36}		(GRO+DRO+EXT DRO)
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
Reclamation Requirements (19.15.29 NMAC)			**600**		**10**								**50**								**100**
BH-22-01	2/17/2022	2-3	**4,960**		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		4-5	**3,360**		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		6-7	**2,200**		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		9-10	**976**		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		14-15	**608**		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		19-20	**1,020**	**QM-07**	< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		24-25	80		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		29-30	80		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-02	2/16/2022	2-3	**1,920**		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		11.3		**436**		88.3		**536**
		4-5	**2,200**		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		**378**		76.2		**454**
		6-7	**1,810**		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		15.9		**661**		**136**		**813**
		9-10	**2,000**		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		94		10.8		**105**
		14-15	160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		19-20	176		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-03	2/17/2022	2-3	**3,800**		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		**134**		19.1		**153**
		4-5	352		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		6-7	**1,480**		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		9-10	**1,680**		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		14-15	256		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		19-20	176		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-04	2/17/2022	2-3	**1,800**		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		4-5	192		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		6-7	560		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		9-10	80		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-05	2/16/2022	0-1	**2,760**	**QM-07**	< 0.200		1.08		15		33.2		49.2		**1,540**		**12,900**		**2,110**		**16,550**
		2-3	**1,880**		< 0.050		< 0.050		0.169		0.402		0.571		41.6		**1,340**		**272**		**1,654**
		4-5	**1,180**		< 0.050		< 0.050		0.099		0.311		0.41		39.3		**1,440**		**270**		**1,749**
		6-7	48		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		9-10	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		14-15	48		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		93.7		< 10.0		93.7
		19-20	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-06	2/16/2022	0-1	**8,480**		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		**764**		**166**		**930**
		2-3	**4,480**		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		96		66.7		**113**
		4-5	**3,360**		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		6-7	**2,640**		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		9-10	240		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		14-15	112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		19-20	32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS
SOIL ASSESSMENT SAMPLING - INCIDENT IDS NRH2003532478 & NAPP2129936218
MAVERICK PERMIAN, LLC
EVGSAU FLOWLINE RELEASES
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride[1]		BTEX[2]										TPH[3]						
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO C_6 - C_{10}		DRO > C_{10} - C_{28}		EXT DRO > C_{28} - C_{36}		Total TPH (GRO+DRO+EXT DRO)
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
Reclamation Requirements (19.15.29 NMAC)			**600**		**10**								**50**								**100**
BH-22-07	2/16/2022	0-1	48		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		2-3	48		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		4-5	32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-08	2/16/2022	0-1	**992**		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		2-3	**1,650**		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		4-5	**1,150**		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		6-7	**1,010**		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		9-10	**768**		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-09	2/16/2022	0-1	240		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-10	2/17/2022	0-1	< 16.0		< 0.050		0.064		0.215		0.442		0.72		12.6		16.7		< 10.0		29
BH-22-11	2/17/2022	0-1	48		< 0.050		0.085		0.198		0.414		0.697		< 10.0		11.6		< 10.0		12
BH-22-12	2/17/2022	0-1	80		< 0.050		0.059		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-13	2/17/2022	0-1	48		< 0.050		0.058		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-14	2/17/2022	0-1	64		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-15	2/17/2022	0-1	32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-16	2/16/2022	0-1	32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-17	3/8/2022	0-1	48		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-

NOTES:

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

1: Method SM4500Cl-B

2: Method 8021B

3: Method 8015M

Bold and highlighted values indicate exceedance of Reclamation Requirements (19.15.29 NMAC).

QUALIFIERS:

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

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
SOIL CONFIRMATION SAMPLING - INCIDENT IDS NRH2003532478 & NAPP2129936218
MAVERICK PERMIAN, LLC
EVGSAU 3440-002 FLOWLINE RELEASES
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride[1]		BTEX[2]								TPH[3]							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO	Total TPH
															C_6 - C_{10}		> C_{10} - C_{28}		> C_{28} - C_{36}	(GRO+DRO+EXT DRO)
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
Reclamation Requirements (19.15.29 NMAC)			**600**		**10**								**50**								**100**
BH - 1 (4.0')	7/13/2023	4.0 - 4.5	1,340		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 2 (4.0')	7/13/2023	4.0 - 4.5	2,960		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 3 (4.0')	7/13/2023	4.0 - 4.5	3,320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 4 (4.0')	7/13/2023	4.0 - 4.5	432		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 5 (4.0')	7/11/2023	4.0 - 4.5	1,020		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		19.1		<10.0		19.1
BH - 6 (4.0')	7/13/2023	4.0 - 4.5	4,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 7 (3.5')	7/11/2023	3.5 - 4.0	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 8 (3.5')	7/12/2023	3.5 - 4.0	**1,120**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 8 (4.5')	7/17/2023	4.5 - 5.0	**3,280**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 9 (6.0')	7/12/2023	6.0 - 6.5	**1,800**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 10 (4.5')	7/21/2023	4.5 - 5.0	368		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 11 (4.5')	7/21/2023	4.5 - 5.0	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		16.3		<10.0		16.3
BH - 12 (4.5')	7/28/2023	4.5 - 5.0	400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 13 (5.0')	7/28/2023	5.0 - 5.5	**2,880**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 14 (5.0')	7/26/2023	5.0 - 5.5	**2,280**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		49		10.3		59.3
BH - 15 (5'0")	8/2/2023	5.0 - 5.5	**1,170**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		22.2		<10.0		22.2
BH - 16 (5.0')	7/26/2023	5.0 - 5.5	**944**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 1	7/17/2023	0.5 - 3.5	**720**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
	7/20/2023	0.5 - 3.5	576		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 2	7/17/2023	0.5 - 3.5	416		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 3	7/11/2023	0.5 - 3.5	**1,120**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		68		22.7		91
	7/14/2023	0.5 - 3.5	**768**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
	7/19/2023	0.5 - 3.5	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 4	7/13/2023	0.5 - 3.5	**1,280**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
	8/3/2023	0.5 - 3.5	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 5	7/13/2023	0.5 - 3.5	**1,440**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
	7/19/2023	0.5 - 3.5	352		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 6	7/13/2023	0.5 - 3.5	**1,310**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
	8/3/2023	0.5 - 3.5	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 7	7/13/2023	0.5 - 3.5	**1,490**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
	7/19/2023	0.5 - 3.5	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 8	7/13/2023	0.5 - 3.5	**1,680**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
	8/3/2023	0.5 - 3.5	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		67.7		51.5		**119**
	8/8/2023	0.5 - 3.5	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
SOIL CONFIRMATION SAMPLING - INCIDENT IDS NRH2003532478 & NAPP2129936218
MAVERICK PERMIAN, LLC
EVGSAU 3440-002 FLOWLINE RELEASES
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride[1]		BTEX[2]										TPH[3]							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH	
															C_6 - C_{10}		> C_{10} - C_{28}		> C_{28} - C_{36}		(GRO+DRO+EXT DRO)	
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Requirements (19.15.29 NMAC)			**600**		**10**								**50**								**100**	
SW - 9	7/14/2023	0.5 - 3.5	336		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
SW - 10	7/13/2023	0.5 - 3.5	**1,440**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
	8/3/2023	0.5 - 3.5	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		16.3		10.5		26.8	
SW - 11	7/12/2023	0.5 - 3.0	**1,380**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
	7/18/2023	0.5 - 3.0	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
SW - 12	7/13/2023	0.5 - 3.0	520		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
SW - 13	7/12/2023	0.5 - 3.0	**1,600**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
	7/18/2023	0.5 - 3.0	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
SW - 14	7/11/2023	0.5 - 3.0	**1,360**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
	7/18/2023	0.5 - 3.0	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		10.7		<10.0		10.7	
SW - 15	7/12/2023	0.5 - 3.0	**800**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
	7/18/2023	0.5 - 3.0	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
SW - 16	7/12/2023	0.5 - 3.5	**624**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
	7/18/2023	0.5 - 3.5	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
SW - 17	7/12/2023	0.5 - 3.5	**1,120**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
	7/17/2023	0.5 - 3.5	**704**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
	7/26/2023	0.5 - 3.5	**1,010**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
	8/3/2023	0.5 - 3.5	400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
SW - 18	7/12/2023	0.5 - 3.5	**1,060**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
	7/17/2023	0.5 - 3.5	**640**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
	7/26/2023	0.5 - 3.5	368		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
SW - 19	7/27/2023	0.5 - 5.5	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		26.5		19		45.5	
SW - 20	7/13/2023	0.5 - 5.5	**1,920**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
	7/26/2023	0.5 - 5.5	368		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
SW - 21	7/21/2023	0.5 - 4.0	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		66.9		67.9		**134.8**	
	7/28/2023	0.5 - 4.0	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		40.7		45.2		85.9	
SW - 22	7/21/2023	0.5 - 4.0	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
SW - 23	7/21/2023	0.5 - 4.0	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
SW - 24	7/28/2023	0.5 - 4.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
SW - 25	8/2/2023	0.5 - 4.5	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		39.4		36.6		76.0	
SW - 26	7/27/2023	0.5 - 4.5	336		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
SW - 27	8/8/2023	0.5 - 4.5	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
SW - 28	7/28/2023	0.5 - 4.5	432		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
SOIL CONFIRMATION SAMPLING - INCIDENT IDS NRH2003532478 & NAPP2129936218
MAVERICK PERMIAN, LLC
EVGSAU 3440-002 FLOWLINE RELEASES
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride[1]		BTEX[2]								TPH[3]							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO	Total TPH
															C_6 - C_{10}		> C_{10} - C_{28}		> C_{28} - C_{36}	(GRO+DRO+EXT DRO)
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
Reclamation Requirements (19.15.29 NMAC)			**600**		**10**								**50**								**100**

NOTES:

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

1: Method SM4500Cl-B

2: Method 8021B

3: Method 8015M

Bold and highlighted values indicate exceedance of Reclamation Requirements (19.15.29 NMAC).

Areas where samples were collected, overexcavated, and resampled.

TABLE 4
SUMMARY OF SOIL ANALYTICAL RESULTS
CONFIRMATION SAMPLES REQUIRING ADDITIONAL REMEDIATION - INCIDENT IDS NRH2003532478 & NAPP2129936218
MAVERICK PERMIAN, LLC
EVGSAU 3440-002 FLOWLINE RELEASES
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride[1]		BTEX[2]								TPH[3]							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO	Total TPH
															C_6 - C_{10}		> C_{10} - C_{28}		> C_{28} - C_{36}	(GRO+DRO+EXT DRO)
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	mg/kg
Reclamation Requirements (19.15.29 NMAC)			**600**		**10**								**50**							**100**
BH - 1 (4.0')	7/13/2023	4.0 - 4.5	**1,340**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
BH - 2 (4.0')	7/13/2023	4.0 - 4.5	**2,960**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
BH - 3 (4.0')	7/13/2023	4.0 - 4.5	**3,320**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
BH - 5 (4.0')	7/11/2023	4.0 - 4.5	**1,020**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		19.1		<10.0	19.1
BH - 6 (4.0')	7/13/2023	4.0 - 4.5	**4,000**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
BH - 8 (4.5')	7/17/2023	4.5 - 5.0	**3,280**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
BH - 9 (6.0')	7/12/2023	6.0 - 6.5	**1,800**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
BH - 13 (5.0')	7/28/2023	5.0 - 5.5	**2,880**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
BH - 14 (5.0')	7/26/2023	5.0 - 5.5	**2,280**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		49		10.3	59.3
BH - 15 (5'0")	8/2/2023	5.0 - 5.5	**1,170**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		22.2		<10.0	22.2
BH - 16 (5.0')	7/26/2023	5.0 - 5.5	**944**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30

NOTES:

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

1: Method SM4500Cl-B
2: Method 8021B
3: Method 8015M

Bold and highlighted values indicate exceedance of Table I 19.15.29.12 NMAC.
Confirmation Sampling Results do not meet Reclamation Requirements

ATTACHMENT 1: SITE CHARACTERIZATION DATA

U.S. Fish and Wildlife Service
National Wetlands Inventory

EVGSAU 3440-002 Wetlands

July 10, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

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

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 04775		L	LE		4	1	34	17S	35E	645365	3629421*	422	133	68	65
L 04727		L	LE				34	17S	35E	645576	3629214*	434	120	45	75
L 04793		L	LE				34	17S	35E	645576	3629214*	434	150	50	100
L 04618		L	LE		3	3	34	17S	35E	644973	3628611*	477	128	55	73
L 05834 POD6		L	LE	1	1	4	34	17S	35E	645673	3629122*	501	234	65	169
L 05834	R	L	LE	2	2	4	33	17S	35E	644663	3629109*	518	160	70	90
L 05834 POD5		L	LE	2	2	4	33	17S	35E	644663	3629109*	518	234	65	169
L 04633		L	LE		2	4	33	17S	35E	644564	3629010*	614	130	65	65

Average Depth to Water: **60 feet**
Minimum Depth: **45 feet**
Maximum Depth: **70 feet**

Record Count: 8

UTMNAD83 Radius Search (in meters):

Easting (X): 645177.447 **Northing (Y):** 3629042.152 **Radius:** 800

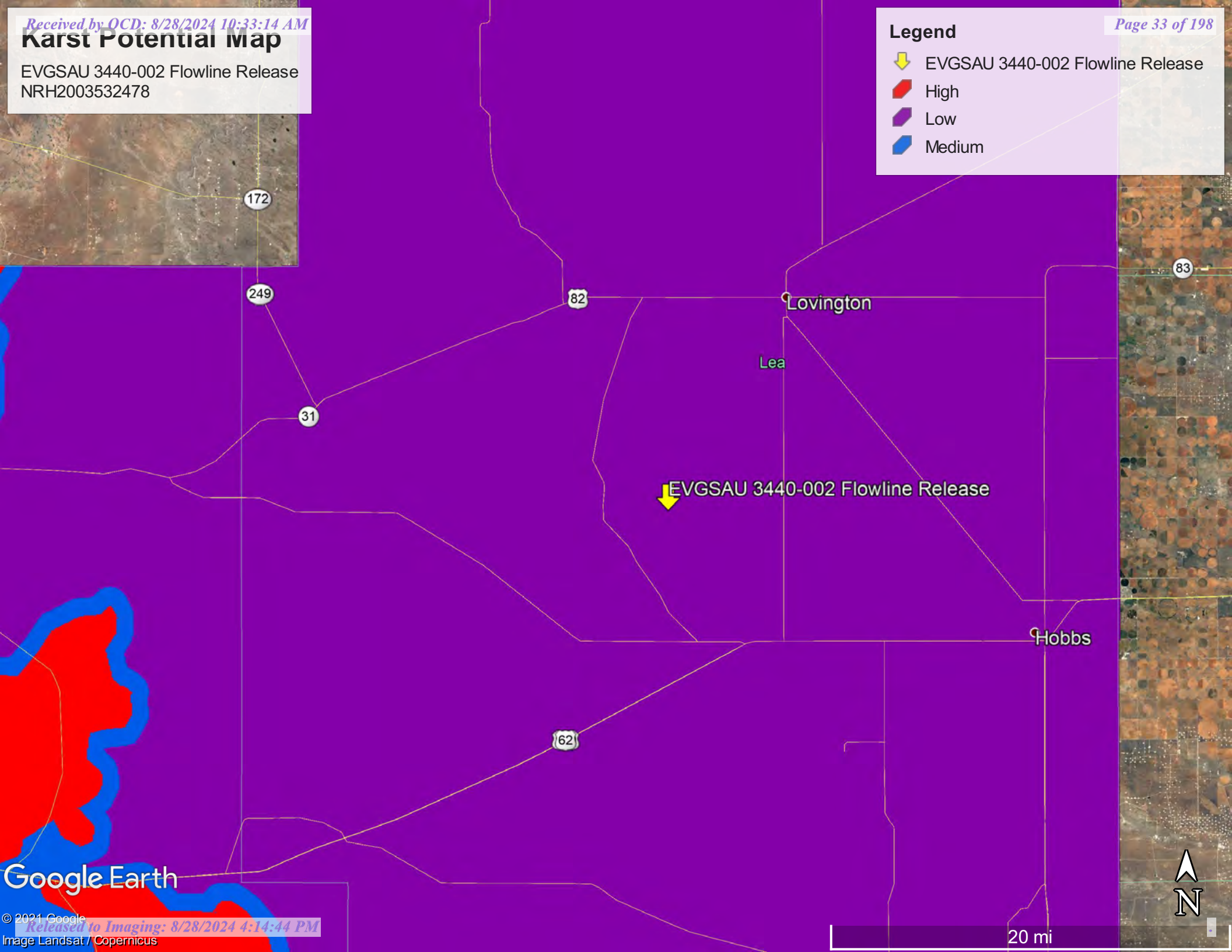
***UTM location was derived from PLSS - see Help**

Karst Potential Map

EVGSAU 3440-002 Flowline Release
NRH2003532478

Legend

- EVGSAU 3440-002 Flowline Release
- High
- Low
- Medium



OCD Water Bodies

2/11/2022, 3:50:20 PM

OCD District Offices

OSE Water-bodies

PLJV Probable Playas

OSE Streams

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

OCD, Maxar

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Lea County, New Mexico

February 11, 2022

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 18, Sep 10, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	1.6	100.0%
Totals for Area of Interest		**1.6**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Lea County, New Mexico

KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw46
Elevation: 2,500 to 4,800 feet
Mean annual precipitation: 14 to 16 inches
Mean annual air temperature: 57 to 63 degrees F
Frost-free period: 180 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough and similar soils: 45 percent
Lea and similar soils: 25 percent
Minor components: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kimbrough

Setting

Landform: Playa rims, plains
Down-slope shape: Convex, linear
Across-slope shape: Concave, linear
Parent material: Loamy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 3 inches: gravelly loam
Bw - 3 to 10 inches: loam
Bkkm1 - 10 to 16 inches: cemented material
Bkkm2 - 16 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 4 to 18 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.01 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 95 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R077DY049TX - Very Shallow 12-17" PZ
Hydric soil rating: No

Description of Lea

Setting

Landform: Plains
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age

Typical profile

A - 0 to 10 inches: loam
Bk - 10 to 18 inches: loam
Bkk - 18 to 26 inches: gravelly fine sandy loam
Bkkm - 26 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 22 to 30 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 90 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 3.0
Available water supply, 0 to 60 inches: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R077DY047TX - Sandy Loam 12-17" PZ
Hydric soil rating: No

Minor Components

Douro

Percent of map unit: 12 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077DY047TX - Sandy Loam 12-17" PZ
Other vegetative classification: Unnamed (G077DH000TX)
Hydric soil rating: No

Kenhill

Percent of map unit: 12 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077DY038TX - Clay Loam 12-17" PZ
Hydric soil rating: No

Spraberry

Percent of map unit: 6 percent
Landform: Playa rims, plains
Down-slope shape: Convex, linear
Across-slope shape: Linear
Ecological site: R077DY049TX - Very Shallow 12-17" PZ
Other vegetative classification: Unnamed (G077DH000TX)
Hydric soil rating: No

1 REVEGETATION PLANS

The following Revegetation Plans were developed for revegetation of sites in southeastern New Mexico. To determine which revegetation plan is appropriate follow procedures in the section titled Determining the Revegetation Plan.

Revegetation Plans contain seed mixtures, as well as seed bed preparation and planting requirements. The detailed instructions for seedbed preparation and planting can be found in the section Revegetation Techniques.

Table 3 - Revegetation Plans, Codes, and Soil Types for Southeastern New Mexico

REVEGTATION PLANS	CODE	SOIL TEXTURES
Clay	C	Clay, Silty Clay, Stony Silty Clay, Clay Loam, Silty Clay Loam (including saline and sodic Clay soils)
Loam	L	Silty Loam, Cobbly Silt Loam, Stony Silt Loam, Silt, Loam, Sandy, Clay Loam
Sandy Loam	SL	Very Fine Sandy Loam, Fine Sandy Loam, Cobbly Fine Sandy Loam, Sandy Loam, Cobbly Sandy Loam, Gravelly Fine Sandy Loam, Very Gravelly Fine Sand Loam, Stony Fine Sandy Loam, Stony Sandy Loam
Shallow	SH	Rocky Loam, Cobbly Loam
Course	CS	Gravelly Loam, very Gravelly Loam, Gravelly Sandy Loam, Very Gravelly Sandy Loam, Stony Loam, Stony Sandy Loam
Sandy	S	Loamy Fine Sand, Loam Sand, Very Gravelly Loamy Fine Sand
Blow Sand	BS	Fine Sand, Sand, Coarse Sand
Mountain Meadow	MM	Clay, Loam
Mountain Upland	MU	Clay Loam, Loam

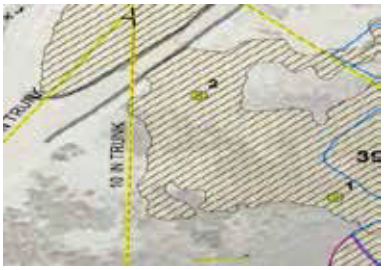
NMSLO Seed Mix Loamy (L)

LOAMY (L) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Black grama	**VNS, Southern**	**1.0**	**D**
Blue grama	**Lovington**	**1.0**	**D**
Sideoats grama	**Vaughn, El Reno**	**4.0**	**F**
Sand dropseed	**VNS, Southern**	**2.0**	**S**
Alkali sacaton	**VNS, Southern**	**1.0**	
Little bluestem	**Cimarron, Pastura**	**1.5**	**F**
Forbs:			
Firewheel (*Gaillardia*)	**VNS, Southern**	**1.0**	**D**
Shrubs:			
Fourwing saltbush	**Marana, Santa Rita**	**1.0**	**D**
Common winterfat	**VNS, Southern**	**0.5**	**F**
	Total PLS/acre	**18.0**	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box
VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at http://plants.usda.gov.

Logger:	Jacob Kamplain		**Company:** ConocoPhillips
Driller:	White Drilling		**Project Name:** Vac ABO Battery #3 **Well ID:** SB-2
Drilling Method:	Air Rotary		**Project Consultant:** Basin
Start Date:	2/11/2016		
End Date:	2/11/2016		

Comments: All Samples were taken from cuttings.

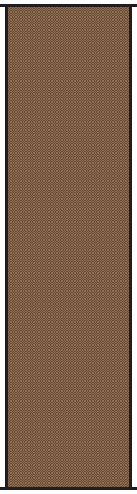
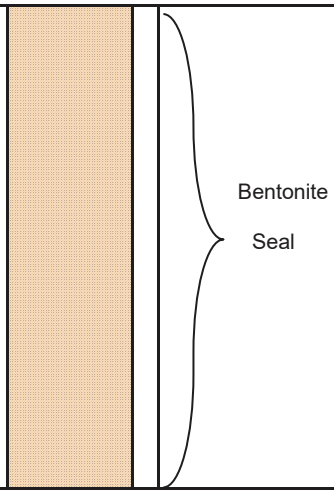
DRAFTED BY:

TD = 50' GW = 71'

Location: U/L N Sec 34 T-17-S R-35-E
Lat: 32.787554 **County**: Lea
Long: -103.449746 **State**:NM

Depth (feet)	Chloride field tests	LAB	PID	Description
SS	1295		9.7	dark brown clay w/ sandy clay
5 ft	1362		2	
10 ft	1125	CL-2560	0.6	caliche/limestone
		GRO <10		
		DRO <10		
15 ft	375		1.5	limestone
20 ft	1447		0.7	brown sand/sand stone
25 ft	1007	CL-1100	0.5	
		GRO <10		
		DRO <10		
30 ft	634		0.6	
35 ft	716	CL-704	0.5	
		GRO <10		
		DRO <10		

Lithology / Well Construction: Bentonite Seal

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
40 ft	524		0.5	brown sand/sand stone		
45 ft	411		0.3			
50 ft	284	CL-368	0.6			
		GRO <10				
		DRO <10				

ATTACHMENT 2: BORELOGS

212C-MD-02499 | TETRA TECH | **LOG OF BORING BH-22-1** | Page 1 of 2

Project Name: EVGSAU 3440-002 Flowline Release

Borehole Location: GPS: 32.789856°, -103.449641° | Surface Elevation: 3931 ft

Borehole Number: BH-22-1 | Borehole Diameter (in.): 8 | Date Started: 2/17/2022 | Date Finished: 2/17/2022

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▽ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
												-- Previously excavated during initial response activities.	2	
												-SM- SILTY SAND: Brown, loose, with clay, dry.	3	BH-22-1 (2'-3')
5												**-SM-** SILTY SAND: Tan, moderately cemented, moderate gravel.	7	BH-22-1 (4'-5') BH-22-1 (6'-7')
10												**-SM-** CALICHE: Tan, dense, heavily cemented, with gravel.	16	BH-22-1 (9'-10') BH-22-1 (14'-15')
15														
20												**-SM-** SILTY SAND: Tan, dense, moderately cemented, dry.		BH-22-1 (19'-20') BH-22-1 (24'-25')
25														

Sampler Types: Split Spoon, Shelby, Bulk Sample, Grab Sample, Acetate Liner, Vane Shear, Discrete Sample, Test Pit

Operation Types: Mud Rotary, Continuous Flight Auger, Wash Rotary, Hand Auger, Air Rotary, Direct Push, Core Barrel

Notes:
Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.

Logger: Joe Tyler | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-02499	TETRA TECH	LOG OF BORING BH-22-1	Page 2 of 2

Project Name: EVGSAU 3440-002 Flowline Release

Borehole Location: GPS: 32.789856°, -103.449641° | Surface Elevation: 3931 ft

Borehole Number: BH-22-1 | Borehole Diameter (in.): 8 | Date Started: 2/17/2022 | Date Finished: 2/17/2022

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
30													30	BH-22-1 (29'-30')

Bottom of borehole at 30.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, Discrete Sample, Grab Sample, Test Pit

Operation Types: Mud Rotary, Hand Auger, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:
Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.

Logger: Joe Tyler | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-02499	TETRA TECH	**LOG OF BORING BH-22-2**	Page 1 of 1

Project Name: EVGSAU 3440-002 Flowline Release

Borehole Location: GPS: 32.790023°, -103.449434° | Surface Elevation: 3929 ft

Borehole Number: BH-22-2 | Borehole Diameter (in.): 8 | Date Started: 2/16/2022 | Date Finished: 2/16/2022

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▽ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
												-- Previously excavated during initial response activities.	2	
												-SM- SILTY SAND: Brown, loose, with clay, dry.	3	BH-22-2 (2'-3')
5												**-SM-** SILTY SAND: Tan, moderately cemented, moderate gravel.	7	BH-22-2 (4'-5') BH-22-2 (6'-7')
10												**-SM-** CALICHE: Tan, dense, heavily cemented, with gravel.		BH-22-2 (9'-10')
15													16	BH-22-2 (14'-15')
20												**-SM-** SILTY SAND: Tan, dense, moderately cemented, dry.	20	BH-22-2 (19'-20')

Bottom of borehole at 20.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, Discrete Sample, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:
Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.

Logger: Joe Tyler | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-02499 | TETRA TECH | **LOG OF BORING BH-22-3** | Page 1 of 1

Project Name: EVGSAU 3440-002 Flowline Release

Borehole Location: GPS: 32.789962°, -103.449290° | Surface Elevation: 3928 ft

Borehole Number: BH-22-3 | Borehole Diameter (in.): 8 | Date Started: 2/17/2022 | Date Finished: 2/17/2022

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▽ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
												-- Previously excavated during initial response activities.	2	
												-SM- SILTY SAND: Brown, loose, with clay, dry.	3	BH-22-3 (2'-3')
5												**-SM-** CALICHE: Tan, dense, heavily cemented, with gravel.		BH-22-3 (4'-5')
														BH-22-3 (6'-7')
10														BH-22-3 (9'-10')
15														BH-22-3 (14'-15')
													16	
												-SM- SILTY SAND: Tan, dense, moderately cemented, dry.		
20													20	BH-22-3 (19'-20')

Bottom of borehole at 20.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, Discrete Sample, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:
Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.

Logger: Joe Tyler | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-02499 | TETRA TECH | **LOG OF BORING BH-22-4** | Page 1 of 1

Project Name: EVGSAU 3440-002 Flowline Release

Borehole Location: GPS: 32.789833°, -103.449048° | Surface Elevation: 3928 ft

Borehole Number: BH-22-4 | Borehole Diameter (in.): 8 | Date Started: 2/17/2022 | Date Finished: 2/17/2022

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▽ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
												-- Previously excavated during initial response activities.	2	
												-SM- SILTY SAND: Brown, loose, with clay, dry.	3	BH-22-4 (2'-3')
5												**-SM-** CALICHE: Tan, dense, heavily cemented, with gravel.		BH-22-4 (4'-5')
														BH-22-4 (6'-7')
10													10	BH-22-4 (9'-10')

Bottom of borehole at 10.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, Discrete Sample, Grab Sample, Test Pit

Operation Types: Mud Rotary, Hand Auger, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:
Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.

Logger: Joe Tyler | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-02499 | TETRA TECH

LOG OF BORING BH-22-5

Page 1 of 1

Project Name: EVGSAU 3440-002 Flowline Release

Borehole Location: GPS: 32.789710°, -103.448706° | Surface Elevation: 3925 ft

Borehole Number: BH-22-5 | Borehole Diameter (in.): 8 | Date Started: 2/16/2022 | Date Finished: 2/16/2022

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▽ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
												-SM- SILTY SAND: Brown, loose, with clay, dry.		BH-22-5 (0-1')
													3	BH-22-5 (2'-3')
												-SM- CALICHE: Tan, dense, heavily cemented, with gravel.		BH-22-5 (4'-5')
5														BH-22-5 (6'-7')
10														BH-22-5 (9'-10')
15														BH-22-5 (14'-15')
													16	
												-SM- SILTY SAND: Tan, dense, moderately cemented, dry.		
20													20	BH-22-5 (19'-20')

Bottom of borehole at 20.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, Discrete Sample, Grab Sample, Test Pit

Operation Types: Mud Rotary, Hand Auger, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:
Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.

Logger: Joe Tyler | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-02499	TETRA TECH	**LOG OF BORING BH-22-6**	Page 1 of 1

Project Name: EVGSAU 3440-002 Flowline Release

Borehole Location: GPS: 32.789858°, -103.448276° | Surface Elevation: 3925 ft

Borehole Number: BH-22-6 | Borehole Diameter (in.): 8 | Date Started: 2/16/2022 | Date Finished: 2/16/2022

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▽ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
												-SM- SILTY SAND: Brown, loose, with clay, dry.		BH-22-6 (0-1')
													3	BH-22-6 (2'-3')
												-SM- CALICHE: Tan, dense, heavily cemented, with gravel.		
5														BH-22-6 (4'-5')
														BH-22-6 (6'-7')
10														BH-22-6 (9'-10')
15														BH-22-6 (14'-15')
													16	
												-SM- SILTY SAND: Tan, dense, moderately cemented, dry.		
20													20	BH-22-6 (19'-20')

Bottom of borehole at 20.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, Discrete Sample, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:
Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.

Logger: Joe Tyler | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

ATTACHMENT 3: CULTURAL RESOURCES SURVEY COVER PAGE

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 2 9 4 2

Registration

Lead Agency: New Mexico State Land Office

Performing Agency: SWCA Environmental Consultants
Activity ID: 81408
Performing Agency Report No: 23-323

Report Recipient (Your Client): Tetra Tech, Inc.

Activity Types:
- ☐ Research Design
- ✔ Archaeological Survey/Inventory
- ☐ Architectural Survey/Inventory
- ☐ Test Excavation
- ☐ Monitoring
- ☐ Collections/Non-Field Study
- ☐ Compliance Decision
- ☐ Literature Review Overview
- ☐ Excavation
- ☐ Ethnographic Study
- ☐ Resource/Property Visit
- ☐ Historic Structures Report
- ☐ Other:

Total Survey Acreage: 5.87
Total Tribal Acreage: 0.00
Total Resources Visited: 0

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 2 9 4 2

Associate/Register Resources

Prefix	Number	Field Site/Other Number	In GIS	Resource Type	Collections Made?	Revisit
			☐		☐	

ATTACHMENT 4: PHOTOGRAPHIC DOCUMENTATION

Lovington NM

280°W (T) **LAT:** 32.789973 **LON:** -103.449103 ±4m ▲1200m

Lovington NM

300°NW (T) **LAT:** 32.789920 **LON:** -103.449120 ±4m ▲ 1197m

Lovington NM

315°NW (T) **LAT:** 32.789899 **LON:** -103.449143 ±4m ▲1198m

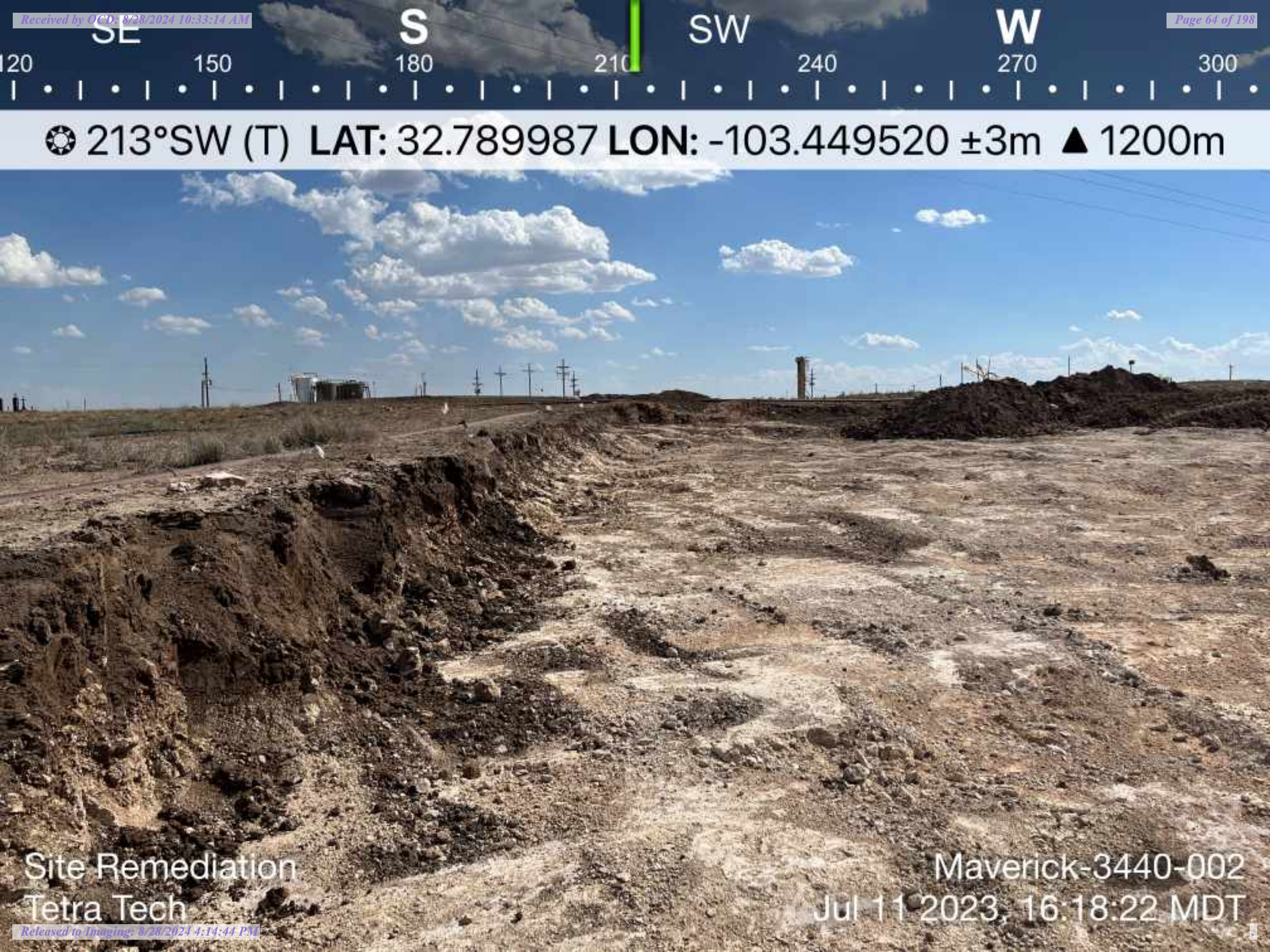
NW N NE E

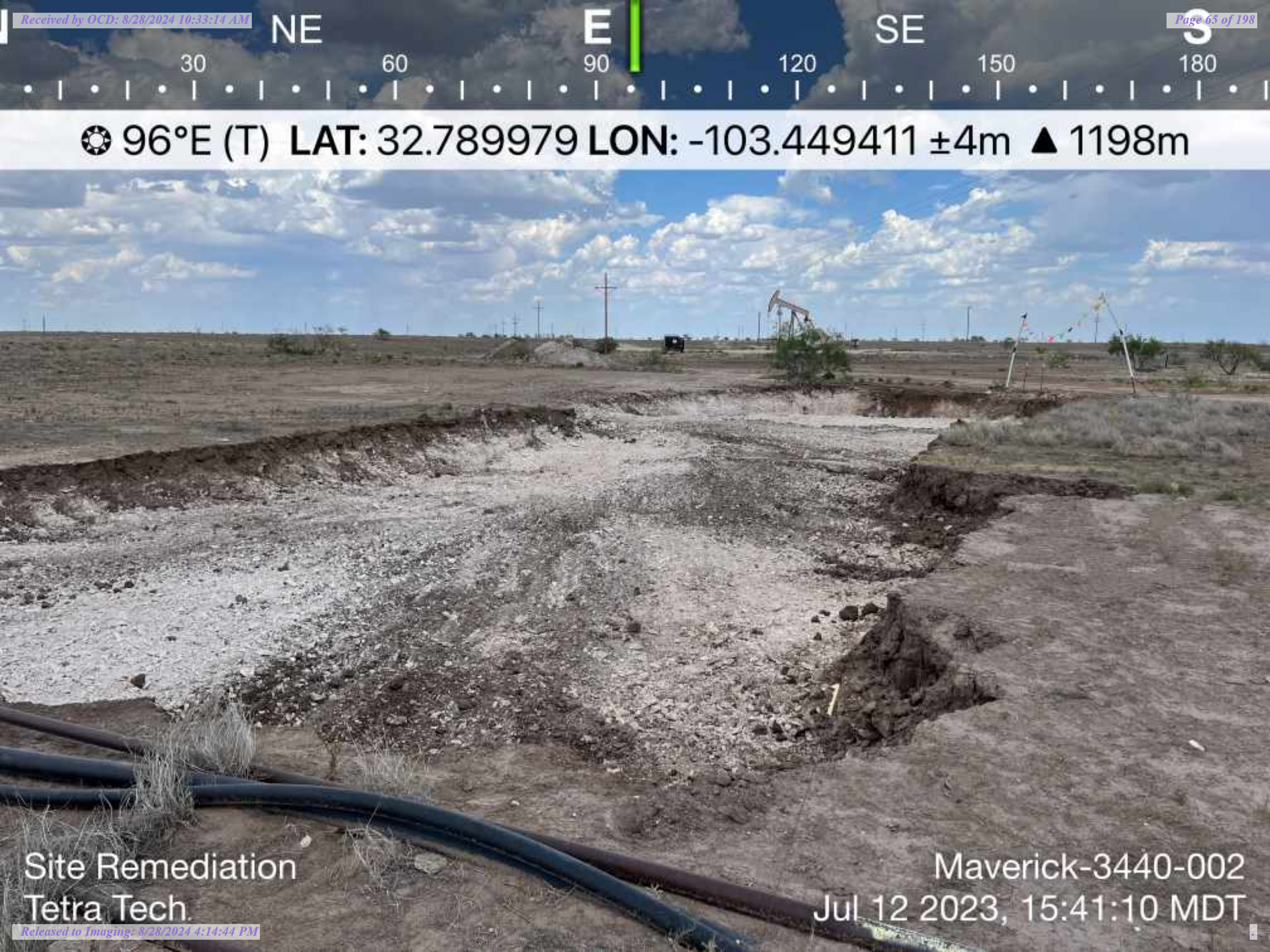
330 0 30 60 90 120

38°NE (T) **LAT:** 32.789965 **LON:** -103.449548 ±4m ▲ 1199m

Site Remediation
Tetra Tech

Maverick-3440-002
Jul 11 2023, 16:18:05 MDT





NE E SE S

30 60 90 120 150 180

113°SE (T) **LAT:** 32.789942 **LON:** -103.449271 ±3m ▲1197m

Site Remediation
Tetra Tech

Maverick-3440-002.
Jul 14 2023, 15:23:29 MDT

S SW W NW N

30 210 240 270 300 330 0

275°W (T) **LAT:** 32.789826 **LON:** -103.449579 ±3m ▲1200m

Site Remediation
Tetra Tech

Maverick-3440-002
Jul 19 2023, 15:24:06 MDT

N NE E SE
0 30 60 90 120 150

83°E (T) **LAT:** 32.789996 **LON:** -103.449584 ±4m ▲ 1198m

Site Remediation
Tetra Tech

Maverick-3440-002
Jul 19 2023, 15:25:46 MDT

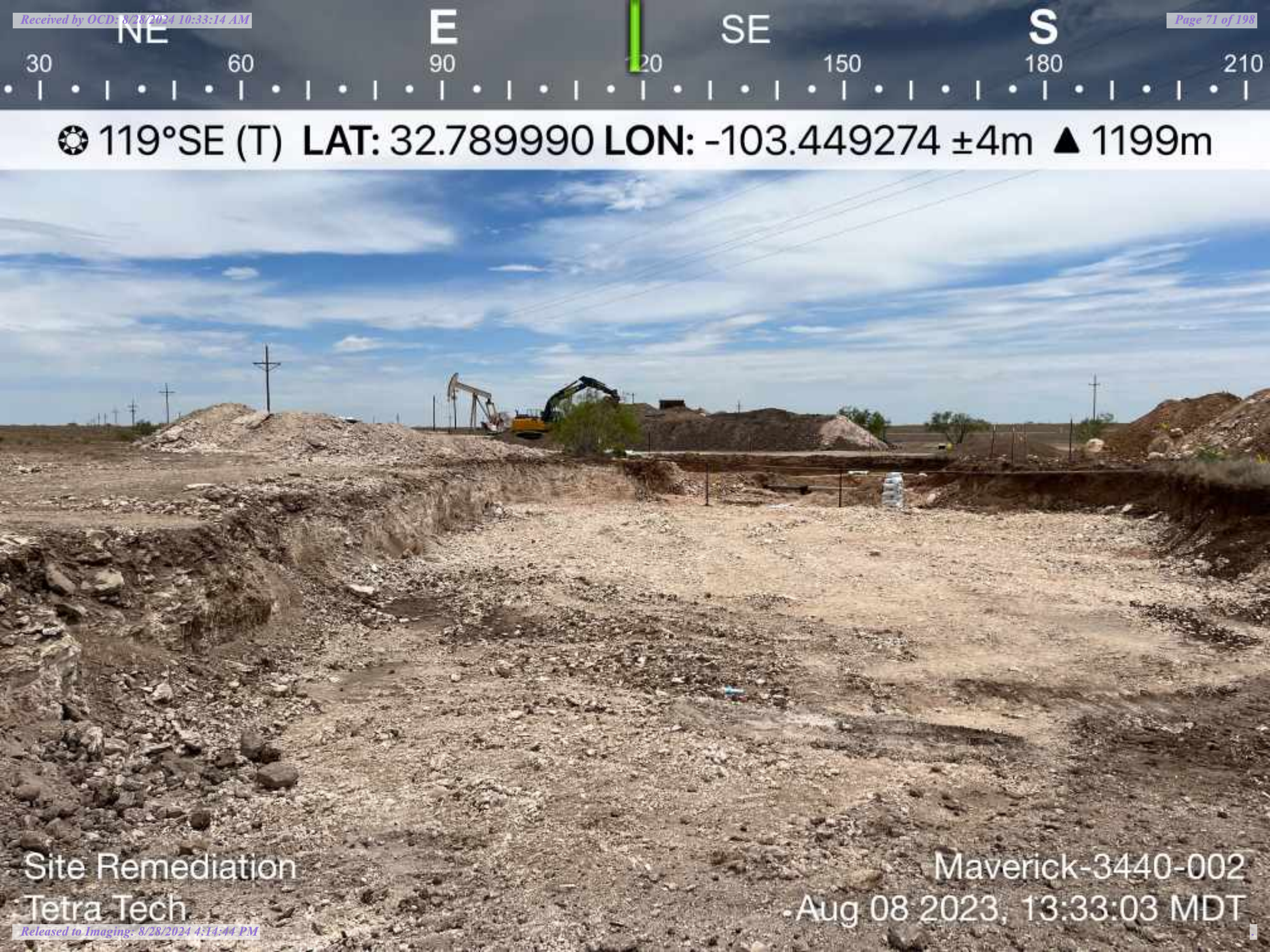
S SW W NW

150 180 210 240 270 300 330

244°SW (T) **LAT:** 32.789896 **LON:** -103.449561 ±4m ▲ 1196m

Site Remediation
Tetra Tech

Maverick-3440-002
Aug 08 2023, 13:31:38 MDT



SW W NW N

210 240 270 300 330 0

296°NW (T) **LAT:** 32.789746 **LON:** -103.448862 ±4m ▲1197m

Site Remediation
Tetra Tech

Maverick-3440-002
Aug 08 2023, 13:34:17 MDT

SW W NW N
240 270 300 330 0 30

308°NW (T) **LAT:** 32.789636 **LON:** -103.448788 ±3m ▲ 1197m

S 180 SW 210 240 W 270 300 NW 330

250°W (T) **LAT:** 32.789917 **LON:** -103.449405 ±4m ▲ 1196m

SW W NW N

210 240 270 300 330 0

295°NW (T) **LAT:** 32.789898 **LON:** -103.448783 ±4m ▲1199m

Site Remediation
Tetra Tech

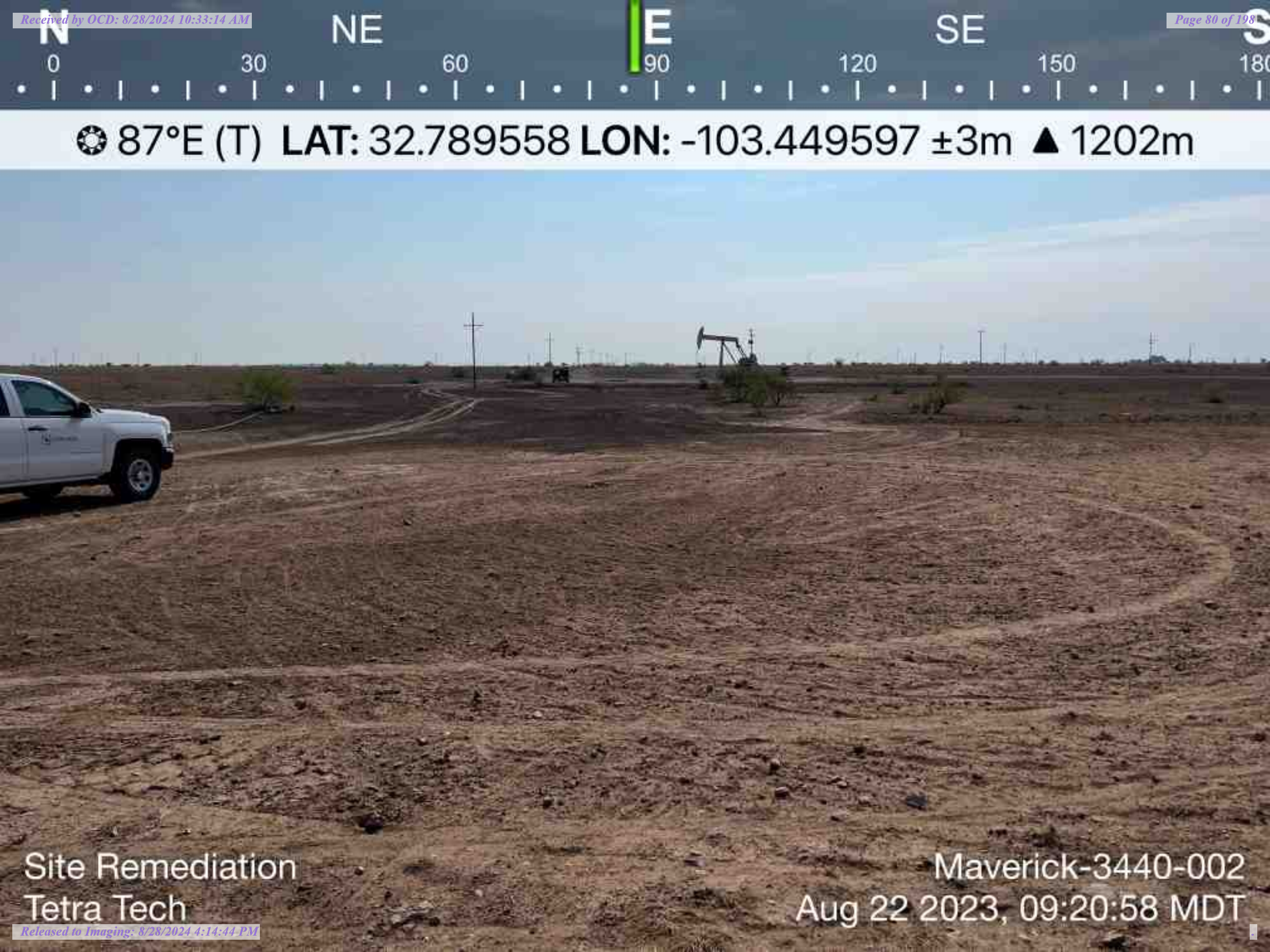
Maverick-3440-002
Aug 22 2023, 09:15:03 MDT

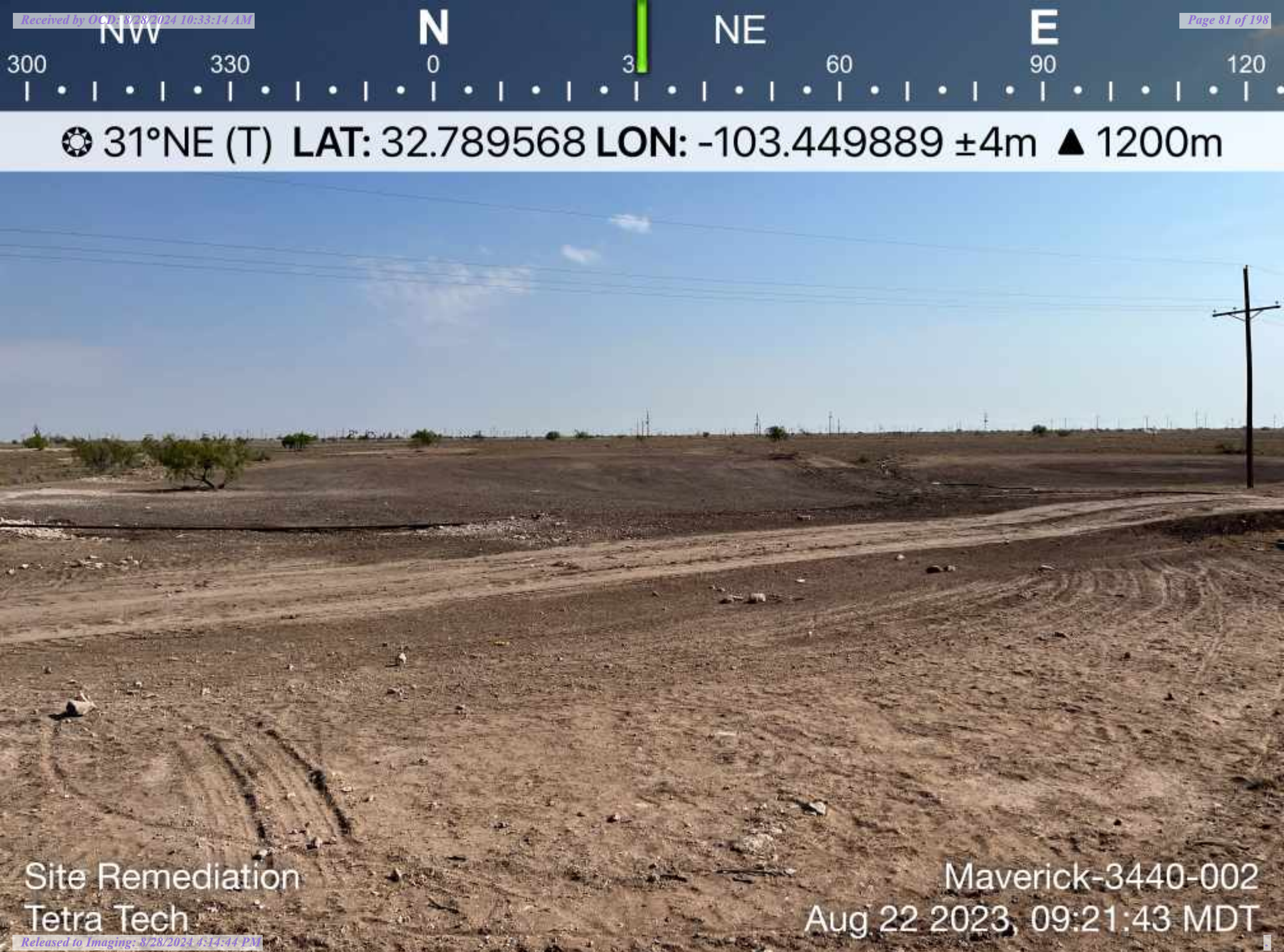
S SW W NW
180 210 240 270 300 330

250°W (T) **LAT:** 32.790144 **LON:** -103.448936 ±4m ▲1200m

Site Remediation
Tetra Tech

Maverick-3440-002
Aug 22 2023, 09:15:42 MDT





ATTACHMENT 5: LABORATORY ANALYTICAL DATA

CARDINAL Laboratories

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

July 14, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 3440-002 FLOWLINE RELEASR REM

Enclosed are the results of analyses for samples received by the laboratory on 07/12/23 16:32.

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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/12/2023	Sampling Date:	07/11/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASR	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 3 (H233579-01)

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	07/12/2023	ND	2.14	107	2.00	7.63	
Toluene*	<0.050	0.050	07/12/2023	ND	2.15	108	2.00	10.6	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.07	103	2.00	8.34	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.38	106	6.00	8.09	
Total BTEX	<0.300	0.300	07/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *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	**1120**	16.0	07/13/2023	ND	448	112	400	7.41	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	189	94.6	200	15.3	
DRO >C10-C28*	**68.0**	10.0	07/13/2023	ND	223	112	200	0.285	
EXT DRO >C28-C36	**22.7**	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane *132 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *153 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/12/2023	Sampling Date:	07/11/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASR	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 14 (H233579-02)

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	07/12/2023	ND	2.14	107	2.00	7.63	
Toluene*	<0.050	0.050	07/12/2023	ND	2.15	108	2.00	10.6	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.07	103	2.00	8.34	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.38	106	6.00	8.09	
Total BTEX	<0.300	0.300	07/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *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	**1360**	16.0	07/13/2023	ND	448	112	400	7.41	

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	07/13/2023	ND	189	94.6	200	15.3	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	223	112	200	0.285	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane *99.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *115 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/12/2023	Sampling Date:	07/11/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASR	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 5 (4.0') (H233579-03)

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	07/12/2023	ND	2.14	107	2.00	7.63	
Toluene*	<0.050	0.050	07/12/2023	ND	2.15	108	2.00	10.6	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.07	103	2.00	8.34	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.38	106	6.00	8.09	
Total BTEX	<0.300	0.300	07/12/2023	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	**1020**	16.0	07/13/2023	ND	448	112	400	7.41	

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	07/13/2023	ND	189	94.6	200	15.3	
DRO >C10-C28*	**19.1**	10.0	07/13/2023	ND	223	112	200	0.285	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane *108 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *129 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/12/2023	Sampling Date:	07/11/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASR	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 7 (3.5') (H233579-04)

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	07/12/2023	ND	2.14	107	2.00	7.63	
Toluene*	<0.050	0.050	07/12/2023	ND	2.15	108	2.00	10.6	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.07	103	2.00	8.34	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.38	106	6.00	8.09	
Total BTEX	<0.300	0.300	07/12/2023	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	**160**	16.0	07/13/2023	ND	448	112	400	7.41	

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	07/13/2023	ND	189	94.6	200	15.3	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	223	112	200	0.285	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane *110 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *130 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Maverick Natural Resources	Site Manager:	Chuck Terhune
Project Name:	EVGSAU- 3440-002 Flowline Release Rem		281-755-8965 chuck.terhune@tetratech.com
Project Location: (county, state)	Lea County, NM	Project #:	212C-HN-02255 Task 100
Invoice to:	Attn: Bryce Wagoner		
Receiving Laboratory:	Cardinal Labs	Sampler Signature:	Jorge Fernadez
Comments:			

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance					Hold
H233579																																	
1	SW-3	7/11/2023			x			x			x		x												x								
2	SW-14	7/11/2023			x			x			x		x												x								
3	BH-5 (4.0')	7/11/2023			x			x			x		x												x								
4	BH-7 (3.5')	7/11/2023			x			x			x		x												x								
	~~BH-8 (3.5')~~ JLFV 7-12-23	7/11/2023			x			x			x		x												x								

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Jorge L Fernandez V	7-12-23	1631	Tamara Oldaker	7-12-23	1632
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature 5.1°C #140

REMARKS: ~~Standard TAT~~

☑ RUSH: Same Day (24 hr) 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

CARDINAL Laboratories

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

July 14, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 3440-002 FLOWLINE RELEASE REM

Enclosed are the results of analyses for samples received by the laboratory on 07/13/23 13:10.

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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 15 (H233597-01)

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	07/13/2023	ND	2.01	101	2.00	1.11	
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05	QR-03
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625	QR-03
Total BTEX	<0.300	0.300	07/13/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**800**	16.0	07/14/2023	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	07/14/2023	ND	184	91.9	200	8.11	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	181	90.7	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane *98.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *109 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 13 (H233597-02)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	1.11	
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625	
Total BTEX	<0.300	0.300	07/13/2023	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	**1600**	16.0	07/14/2023	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	07/14/2023	ND	184	91.9	200	8.11	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	181	90.7	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane *118 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *133 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 17 (H233597-03)

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	07/13/2023	ND	2.01	101	2.00	1.11	
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625	
Total BTEX	<0.300	0.300	07/13/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1120**	16.0	07/14/2023	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	07/14/2023	ND	184	91.9	200	8.11	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	181	90.7	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane *109 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *114 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 18 (H233597-04)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	1.11	
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625	
Total BTEX	<0.300	0.300	07/13/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1060**	16.0	07/14/2023	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	07/14/2023	ND	184	91.9	200	8.11	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	181	90.7	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane *96.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *105 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 16 (H233597-05)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	1.11	
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625	
Total BTEX	<0.300	0.300	07/13/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**624**	16.0	07/14/2023	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	07/14/2023	ND	184	91.9	200	8.11	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	181	90.7	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane *108 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *119 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 11 (H233597-06)

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	07/13/2023	ND	2.01	101	2.00	1.11	
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625	
Total BTEX	<0.300	0.300	07/13/2023	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	**1380**	16.0	07/14/2023	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	07/14/2023	ND	184	91.9	200	8.11	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	181	90.7	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane *110 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *123 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 9 (6.0') (H233597-07)

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	07/13/2023	ND	2.01	101	2.00	1.11	
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625	
Total BTEX	<0.300	0.300	07/13/2023	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	**1800**	16.0	07/14/2023	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	07/14/2023	ND	184	91.9	200	8.11	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	181	90.7	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane *104 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *115 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 8 (3.5') (H233597-08)

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	07/13/2023	ND	2.01	101	2.00	1.11	
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625	
Total BTEX	<0.300	0.300	07/13/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1120**	16.0	07/14/2023	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	07/14/2023	ND	184	91.9	200	8.11	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	181	90.7	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane *105 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *116 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

Page 11 of 11

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Maverick Natural Resources	Site Manager:	Chuck Terhune
Project Name:	EVGSAU- 3440-002 Flowline Release Rem		281-755-8965 chuck.terhune@tetratech.com
Project Location: (county, state)	Lea County, NM	Project #:	212C-HN-02255 Task 100
Invoice to:	Attn: Bryce Wagoner		
Receiving Laboratory:	Cardinal Labs	Sampler Signature:	Jorge Fernadez
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2023)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD:	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance					Hold
H233597																																				
1	SW-15	7/12/2023			x				x					x		x												x								
2	SW-13	7/12/2023			x				x					x		x												x								
3	SW-17	7/12/2023			x				x					x		x												x								
4	SW-18	7/12/2023			x				x					x		x												x								
5	SW-16	7/12/2023			x				x					x		x												x								
6	SW-11	7/12/2023			x				x					x		x												x								
7	BH-9 (6.0')	7/12/2023			x				x					x		x												x								
8	BH-8 (3.5')	7/12/2023			x				x					x		x												x								

Relinquished by:	Date: 7/13/23	Time: 13:15	Received by: 1310 Date: 7-13-23 Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY
Sample Temperature
53c
#140

REMARKS: Standard TAT

[X] RUSH: Same Day 24 hr 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

CARDINAL Laboratories

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

July 18, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 3440-002 FLOWLINE RELEASE REM

Enclosed are the results of analyses for samples received by the laboratory on 07/14/23 16:15.

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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/14/2023	Sampling Date:	07/13/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 1 (4.0') (H233665-01)

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	07/16/2023	ND	2.06	103	2.00	3.50	
Toluene*	<0.050	0.050	07/16/2023	ND	2.03	102	2.00	3.47	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	2.15	108	2.00	2.48	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	6.47	108	6.00	1.85	
Total BTEX	<0.300	0.300	07/16/2023	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	**1340**	16.0	07/17/2023	ND	448	112	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	07/16/2023	ND	214	107	200	7.32	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	210	105	200	7.30	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane *77.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *81.4 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/14/2023	Sampling Date:	07/13/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 2 (4.0') (H233665-02)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2023	ND	2.06	103	2.00	3.50	
Toluene*	<0.050	0.050	07/16/2023	ND	2.03	102	2.00	3.47	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	2.15	108	2.00	2.48	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	6.47	108	6.00	1.85	
Total BTEX	<0.300	0.300	07/16/2023	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	**2960**	16.0	07/17/2023	ND	448	112	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	07/16/2023	ND	214	107	200	7.32	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	210	105	200	7.30	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane *81.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *87.0 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/14/2023	Sampling Date:	07/13/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 3 (4.0') (H233665-03)

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	07/16/2023	ND	2.06	103	2.00	3.50	
Toluene*	<0.050	0.050	07/16/2023	ND	2.03	102	2.00	3.47	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	2.15	108	2.00	2.48	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	6.47	108	6.00	1.85	
Total BTEX	<0.300	0.300	07/16/2023	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	**3320**	16.0	07/17/2023	ND	448	112	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	07/16/2023	ND	214	107	200	7.32	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	210	105	200	7.30	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane *86.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *91.3 %* *49.1-148*

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Analytical Results For:

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

Received:	07/14/2023	Sampling Date:	07/13/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 4 (4.0') (H233665-04)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2023	ND	2.06	103	2.00	3.50	
Toluene*	<0.050	0.050	07/16/2023	ND	2.03	102	2.00	3.47	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	2.15	108	2.00	2.48	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	6.47	108	6.00	1.85	
Total BTEX	<0.300	0.300	07/16/2023	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	**432**	16.0	07/17/2023	ND	448	112	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	07/16/2023	ND	214	107	200	7.32	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	210	105	200	7.30	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane *83.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *86.5 %* *49.1-148*

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Analytical Results For:

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

Received:	07/14/2023	Sampling Date:	07/13/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 6 (4.0') (H233665-05)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2023	ND	2.06	103	2.00	3.50	
Toluene*	<0.050	0.050	07/16/2023	ND	2.03	102	2.00	3.47	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	2.15	108	2.00	2.48	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	6.47	108	6.00	1.85	
Total BTEX	<0.300	0.300	07/16/2023	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	**4000**	16.0	07/17/2023	ND	448	112	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	07/16/2023	ND	214	107	200	7.32	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	210	105	200	7.30	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane *88.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *92.1 %* *49.1-148*

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Analytical Results For:

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

Received:	07/14/2023	Sampling Date:	07/13/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW 4 (H233665-06)

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	07/16/2023	ND	2.06	103	2.00	3.50	
Toluene*	<0.050	0.050	07/16/2023	ND	2.03	102	2.00	3.47	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	2.15	108	2.00	2.48	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	6.47	108	6.00	1.85	
Total BTEX	<0.300	0.300	07/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *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	**1280**	16.0	07/17/2023	ND	448	112	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	07/16/2023	ND	214	107	200	7.32	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	210	105	200	7.30	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane *81.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *87.2 %* *49.1-148*

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Analytical Results For:

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

Received:	07/14/2023	Sampling Date:	07/13/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW 5 (H233665-07)

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	07/16/2023	ND	2.06	103	2.00	3.50	
Toluene*	<0.050	0.050	07/16/2023	ND	2.03	102	2.00	3.47	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	2.15	108	2.00	2.48	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	6.47	108	6.00	1.85	
Total BTEX	<0.300	0.300	07/16/2023	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	**1440**	16.0	07/17/2023	ND	448	112	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	07/16/2023	ND	214	107	200	7.32	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	210	105	200	7.30	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane *84.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *87.2 %* *49.1-148*

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Analytical Results For:

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

Received:	07/14/2023	Sampling Date:	07/13/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW 6 (H233665-08)

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	07/16/2023	ND	2.06	103	2.00	3.50	
Toluene*	<0.050	0.050	07/16/2023	ND	2.03	102	2.00	3.47	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	2.15	108	2.00	2.48	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	6.47	108	6.00	1.85	
Total BTEX	<0.300	0.300	07/16/2023	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	**1310**	16.0	07/17/2023	ND	448	112	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	07/16/2023	ND	214	107	200	7.32	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	210	105	200	7.30	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane *77.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *80.5 %* *49.1-148*

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Analytical Results For:

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

Received:	07/14/2023	Sampling Date:	07/13/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW 7 (H233665-09)

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	07/16/2023	ND	2.06	103	2.00	3.50	
Toluene*	<0.050	0.050	07/16/2023	ND	2.03	102	2.00	3.47	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	2.15	108	2.00	2.48	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	6.47	108	6.00	1.85	
Total BTEX	<0.300	0.300	07/16/2023	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	**1490**	16.0	07/17/2023	ND	448	112	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	07/16/2023	ND	192	96.2	200	7.89	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	199	99.6	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane *80.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *90.5 %* *49.1-148*

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Analytical Results For:

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

Received:	07/14/2023	Sampling Date:	07/13/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW 8 (H233665-10)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2023	ND	2.06	103	2.00	3.50	
Toluene*	<0.050	0.050	07/16/2023	ND	2.03	102	2.00	3.47	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	2.15	108	2.00	2.48	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	6.47	108	6.00	1.85	
Total BTEX	<0.300	0.300	07/16/2023	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	**1680**	16.0	07/17/2023	ND	448	112	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	07/16/2023	ND	192	96.2	200	7.89	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	199	99.6	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane *67.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *75.6 %* *49.1-148*

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Analytical Results For:

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

Received:	07/14/2023	Sampling Date:	07/13/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW 10 (H233665-11)

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	07/16/2023	ND	2.06	103	2.00	3.50	
Toluene*	<0.050	0.050	07/16/2023	ND	2.03	102	2.00	3.47	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	2.15	108	2.00	2.48	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	6.47	108	6.00	1.85	
Total BTEX	<0.300	0.300	07/16/2023	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	**1440**	16.0	07/17/2023	ND	448	112	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	07/16/2023	ND	192	96.2	200	7.89	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	199	99.6	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane *67.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *74.6 %* *49.1-148*

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Analytical Results For:

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

Received:	07/14/2023	Sampling Date:	07/13/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW 12 (H233665-12)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2023	ND	2.16	108	2.00	3.72	
Toluene*	<0.050	0.050	07/17/2023	ND	2.12	106	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.07	104	2.00	4.07	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.26	104	6.00	4.49	
Total BTEX	<0.300	0.300	07/17/2023	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	**520**	16.0	07/17/2023	ND	448	112	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	07/16/2023	ND	192	96.2	200	7.89	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	199	99.6	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane *74.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *82.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/14/2023	Sampling Date:	07/13/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW 20 (H233665-13)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2023	ND	2.16	108	2.00	3.72	
Toluene*	<0.050	0.050	07/17/2023	ND	2.12	106	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.07	104	2.00	4.07	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.26	104	6.00	4.49	
Total BTEX	<0.300	0.300	07/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1920**	16.0	07/17/2023	ND	448	112	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	07/16/2023	ND	192	96.2	200	7.89	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	199	99.6	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane *69.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *76.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Maverick Natural Resources	Site Manager:	Chuck Terhune
Project Name:	EVGSAU- 3440-002 Flowline Release Rem		281-755-8965 chuck.terhune@tetratech.com
Project Location: (county, state)	Lea County, NM	Project #:	212C-HN-02255 Task 100
Invoice to:	Attn: Bryce Wagoner		
Receiving Laboratory:	Cardinal Labs	Sampler Signature:	Jorge Fernadez
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2023 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE			# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance					Hold
H233665																																				
1	BH-1 (4.0')	7/13/2023			x				x					x		x												x								
2	BH-2 (4.0')	7/13/2023			x				x					x		x												x								
3	BH-3 (4.0')	7/13/2023			x				x					x		x												x								
4	BH-4 (4.0')	7/13/2023			x				x					x		x												x								
5	BH-6 (4.0')	7/13/2023			x				x					x		x												x								
6	SW-4	7/13/2023			x				x					x		x												x								
7	SW-5	7/13/2023			x				x					x		x												x								
8	SW-6	7/13/2023			x				x					x		x												x								
9	SW-7	7/13/2023			x				x					x		x												x								
10	SW-8	7/13/2023			x				x					x		x												x								

Relinquished by:	Date: 7-14-23	Time: 16:14	Received by: Shari Cisneros 7/14/23 16:15
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY

Sample Temperature 4.7 #140

REMARKS: Standard TAT

[X] RUSH: Same Day 24 hr (48 hr) 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Analysis Request of Chain of Custody Record

Page 2 of

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Maverick Natural Resources

Site Manager: Chuck Terhune, 281-755-8965, chuck.terhune@tetratech.com

Project Name: EVGSAU- 3440-002 Flowline Release Rem

Project Location: (county, state) Lea County, NM

Project #: 212C-HN-02255 Task 100

Invoice to: Attn: Bryce Wagoner

Receiving Laboratory: Cardinal Labs

Sampler Signature: Jorge Fernadez

Comments:

LAB # (LAB USE ONLY) H233665	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2023)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX	PRESERVATIVE METHOD: HCL	HNO_3	ICE			# CONTAINERS	FILTERED (Y/N)
11	SW-10	7/13/2023			x				x				
12	SW-12	7/13/2023			x				x				
13	SW-20	7/13/2023			x				x				
		7/13/2023											
		7/13/2023											
		7/13/2023											
		7/13/2023											
		7/13/2023											
		7/13/2023											
		7/13/2023											

ANALYSIS REQUEST (Circle or Specify Method No.)

Sample	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance					Hold
SW-10	x		x												x								
SW-12	x		x												x								
SW-20	x		x												x								

Relinquished by: Jorge Fernadez Jr. Date: 7-14-23 Time: 16:14

Received by: Shai Cisneros Date: 7/14/23 Time: 16:15

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature 4.7 #140

REMARKS: Standard TAT

[x] RUSH: Same Day 24 hr (48 hr) 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

CARDINAL Laboratories

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

July 18, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 3440-002 FLOWLINE RELEASE REM

Enclosed are the results of analyses for samples received by the laboratory on 07/17/23 16:10.

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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/17/2023	Sampling Date:	07/14/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 3 (H233696-01)

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	07/17/2023	ND	2.36	118	2.00	0.817	
Toluene*	<0.050	0.050	07/17/2023	ND	2.31	116	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.23	111	2.00	0.905	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.91	115	6.00	0.493	
Total BTEX	<0.300	0.300	07/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *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	**768**	16.0	07/18/2023	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	07/18/2023	ND	175	87.5	200	0.899	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	177	88.3	200	0.0447	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					

Surrogate: 1-Chlorooctane *78.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *86.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/17/2023	Sampling Date:	07/14/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 9 (H233696-02)

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	07/17/2023	ND	2.36	118	2.00	0.817	
Toluene*	<0.050	0.050	07/17/2023	ND	2.31	116	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.23	111	2.00	0.905	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.91	115	6.00	0.493	
Total BTEX	<0.300	0.300	07/17/2023	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	**336**	16.0	07/18/2023	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	07/18/2023	ND	175	87.5	200	0.899	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	177	88.3	200	0.0447	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					

Surrogate: 1-Chlorooctane *80.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *86.1 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Maverick Natural Resources	Site Manager:	Chuck Terhune
Project Name:	EVGSAU- 3440-002 Flowline Release Rem		281-755-8965 chuck.terhune@tetratech.com
Project Location: (county, state)	Lea County, NM	Project #:	212C-HN-02255 Task 100
Invoice to:	Attn: Bryce Wagoner		
Receiving Laboratory:	Cardinal Labs	Sampler Signature:	Jorge Fernadez
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2023)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD:	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance					Hold
H233696																																			
1	SW-3	7/14/2023			X				X					X		X												X							
2	SW-9	7/14/2023			X				X					X		X												X							

Relinquished by: Date: Time:
7-17-23 16:09

Received by: Date: Time:
7-17-23 1610

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature
5.1°
#140

REMARKS: ~~Standard TAT~~

[X] RUSH: Same Day 24 hr 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

CARDINAL Laboratories

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

July 19, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 3440-002 FLOWLINE RELEASE REM

Enclosed are the results of analyses for samples received by the laboratory on 07/18/23 13:15.

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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/18/2023	Sampling Date:	07/17/2023
Reported:	07/19/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 8 (4.5') (H233722-01)

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	07/18/2023	ND	2.02	101	2.00	1.43	
Toluene*	<0.050	0.050	07/18/2023	ND	1.95	97.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/18/2023	ND	1.94	97.0	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/18/2023	ND	6.31	105	6.00	1.95	
Total BTEX	<0.300	0.300	07/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3280**	16.0	07/19/2023	ND	432	108	400	0.00	QM-07

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	07/19/2023	ND	173	86.6	200	2.72	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	168	83.9	200	0.669	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane *51.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *60.0 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/18/2023	Sampling Date:	07/17/2023
Reported:	07/19/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 1 (H233722-02)

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	07/18/2023	ND	2.02	101	2.00	1.43	
Toluene*	<0.050	0.050	07/18/2023	ND	1.95	97.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/18/2023	ND	1.94	97.0	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/18/2023	ND	6.31	105	6.00	1.95	
Total BTEX	<0.300	0.300	07/18/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**720**	16.0	07/19/2023	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	07/19/2023	ND	173	86.6	200	2.72	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	168	83.9	200	0.669	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane *50.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *59.5 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/18/2023	Sampling Date:	07/17/2023
Reported:	07/19/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 2 (H233722-03)

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	07/18/2023	ND	2.02	101	2.00	1.43	
Toluene*	<0.050	0.050	07/18/2023	ND	1.95	97.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/18/2023	ND	1.94	97.0	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/18/2023	ND	6.31	105	6.00	1.95	
Total BTEX	<0.300	0.300	07/18/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**416**	16.0	07/19/2023	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	07/19/2023	ND	173	86.6	200	2.72	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	168	83.9	200	0.669	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane *53.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *63.0 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/18/2023	Sampling Date:	07/17/2023
Reported:	07/19/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 17 (H233722-04)

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	07/18/2023	ND	2.02	101	2.00	1.43	
Toluene*	<0.050	0.050	07/18/2023	ND	1.95	97.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/18/2023	ND	1.94	97.0	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/18/2023	ND	6.31	105	6.00	1.95	
Total BTEX	<0.300	0.300	07/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**704**	16.0	07/19/2023	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	07/19/2023	ND	173	86.6	200	2.72	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	168	83.9	200	0.669	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane *50.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *60.3 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/18/2023	Sampling Date:	07/17/2023
Reported:	07/19/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 18 (H233722-05)

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	07/19/2023	ND	2.02	101	2.00	1.43	
Toluene*	<0.050	0.050	07/19/2023	ND	1.95	97.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	1.94	97.0	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.31	105	6.00	1.95	
Total BTEX	<0.300	0.300	07/19/2023	ND					

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

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**640**	16.0	07/19/2023	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	07/19/2023	ND	173	86.6	200	2.72	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	168	83.9	200	0.669	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane *55.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *65.3 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/18/2023	Sampling Date:	07/18/2023
Reported:	07/19/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 11 (H233722-06)

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	07/19/2023	ND	2.02	101	2.00	1.43	
Toluene*	<0.050	0.050	07/19/2023	ND	1.95	97.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	1.94	97.0	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.31	105	6.00	1.95	
Total BTEX	<0.300	0.300	07/19/2023	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	**320**	16.0	07/19/2023	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	07/19/2023	ND	173	86.6	200	2.72	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	168	83.9	200	0.669	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane *58.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *66.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/18/2023	Sampling Date:	07/18/2023
Reported:	07/19/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 13 (H233722-07)

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	07/19/2023	ND	2.02	101	2.00	1.43	
Toluene*	<0.050	0.050	07/19/2023	ND	1.95	97.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	1.94	97.0	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.31	105	6.00	1.95	
Total BTEX	<0.300	0.300	07/19/2023	ND					

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

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**240**	16.0	07/19/2023	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	07/19/2023	ND	173	86.6	200	2.72	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	168	83.9	200	0.669	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane *55.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *62.7 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/18/2023	Sampling Date:	07/18/2023
Reported:	07/19/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 15 (H233722-09)

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	07/19/2023	ND	2.02	101	2.00	1.43	
Toluene*	<0.050	0.050	07/19/2023	ND	1.95	97.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	1.94	97.0	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.31	105	6.00	1.95	
Total BTEX	<0.300	0.300	07/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *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	**288**	16.0	07/19/2023	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	07/19/2023	ND	173	86.6	200	2.72	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	168	83.9	200	0.669	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane *51.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *57.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/18/2023	Sampling Date:	07/18/2023
Reported:	07/19/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 16 (H233722-10)

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	07/19/2023	ND	2.02	101	2.00	1.43	
Toluene*	<0.050	0.050	07/19/2023	ND	1.95	97.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	1.94	97.0	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.31	105	6.00	1.95	
Total BTEX	<0.300	0.300	07/19/2023	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	**112**	16.0	07/19/2023	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	07/19/2023	ND	173	86.6	200	2.72	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	168	83.9	200	0.669	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane *49.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *53.9 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

Page 1 of

Page 12 of 12

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Maverick Natural Resources
Site Manager: Chuck Terhune 281-755-8965 chuck.terhune@tetratech.com
Project Name: EVGSAU- 3440-002 Flowline Release Rem
Project Location: (county, state) Lea County, NM
Project #: 212C-HN-02255 Task 100
Invoice to: Attn: Bryce Wagoner
Receiving Laboratory: Cardinal Labs
Sampler Signature: Jorge Fernadez
Comments: * NO SAMPLE - SRodriguez 7/18/23

LAB # (LAB USE ONLY) H233722	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2023)	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	HNO_3	ICE ✓	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
1	BH-8 (4.5)	7/17/2023			x			x			x		x												x				
2	SW-1	7/17/2023			x			x			x		x												x				
3	SW-2	7/17/2023			x			x			x		x												x				
4	SW-17	7/17/2023			x			x			x		x												x				
5	SW-18	7/17/2023			x			x			x		x												x				
6	SW-11	7/18/2023			x			x			x		x												x				
7	SW-13	7/18/2023			x			x			x		x												x				
8	~~SW-14~~	~~7/18/2023~~			~~x~~			~~x~~			~~x~~		~~x~~												~~x~~				
9	SW-15	7/18/2023			x			x			x		x												x				
10	SW-16	7/18/2023			x			x			x		x												x				

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Jorge Fernandez V.	7-18-23	13:14	Shai Cisneros	7/18/23	13:15
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY Sample Temperature: 4.9c° #140

REMARKS: Standard TAT

- [x] RUSH: Same Day (24 hr) 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

CARDINAL Laboratories

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

July 19, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 3440-002 FLOWLINE RELEASE REM

Enclosed are the results of analyses for samples received by the laboratory on 07/18/23 15:58.

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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/18/2023	Sampling Date:	07/18/2023
Reported:	07/19/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 14 (H233733-01)

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	07/19/2023	ND	2.12	106	2.00	2.12	
Toluene*	<0.050	0.050	07/19/2023	ND	2.09	105	2.00	0.704	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.21	111	2.00	0.468	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.61	110	6.00	0.264	
Total BTEX	<0.300	0.300	07/19/2023	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	**112**	16.0	07/19/2023	ND	448	112	400	3.64	

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	07/19/2023	ND	200	100	200	6.57	
DRO >C10-C28*	**10.7**	10.0	07/19/2023	ND	197	98.7	200	3.80	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane *83.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *84.0 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

Page 4 of 4

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Maverick Natural Resources	Site Manager:	Chuck Terhune
Project Name:	EVGSAU- 3440-002 Flowline Release Rem		281-755-8965 chuck.terhune@tetratech.com
Project Location: (county, state)	Lea County, NM	Project #:	212C-HN-02255 Task 100
Invoice to:	Attn: Bryce Wagoner		
Receiving Laboratory:	Cardinal Labs	Sampler Signature:	Jorge Fernadez
Comments:			

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
H233733																																		
1	SW-14	7/18/23			x				x				x		x												x							

Relinquished by: Date: 7/18/23 Time: 15:58 — Received by: S Rodriguez Date: 7/18/23 Time: 1558

Relinquished by: Date: Time: — Received by: Date: Time:

Relinquished by: Date: Time: — Received by: Date: Time:

LAB USE ONLY

Sample Temperature 5.2

#140

REMARKS: Standard TAT

[X] RUSH: Same Day 24 hr 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

CARDINAL Laboratories

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

July 24, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 3440-002 FLOWLINE RELEASE REM

Enclosed are the results of analyses for samples received by the laboratory on 07/20/23 13:04.

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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/20/2023	Sampling Date:	07/20/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 1 (H233789-01)

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	07/21/2023	ND	2.09	104	2.00	1.43	
Toluene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.98	99.0	2.00	1.69	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.00	99.9	6.00	1.61	
Total BTEX	<0.300	0.300	07/21/2023	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	**576**	16.0	07/21/2023	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	07/21/2023	ND	173	86.3	200	5.90	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	180	89.8	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane *90.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *101 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Maverick	Site Manager:	Chuck Terhune
Project Name:	EVGSAU 3440-002		(281) 755-8965 chuck.terhune@tetratech.com
Project Location: (county, state)	Lea County, NM	Project #:	212C-HN-02255
Invoice to:	chuck.terhune@tetratech.com		
Receiving Laboratory:	Cardinal Labs	Sampler Signature:	Miguel A. Flores
Comments:			

H233789

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
1	SW-1	7/20/2023			x				x			

ANALYSIS REQUEST (Circle or Specify Method No.)

BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
x		x												x							

Relinquished by: Miguel A Flores	Date:	Time:	Received by: S Rodriguez
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 7/20/23 Time: 1304

LAB USE ONLY

Sample Temperature 5.7c

#140

REMARKS: Standard

- [x] RUSH: Same Day ~~24 hr~~ 48 hr 72 hr M.F.
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

CARDINAL Laboratories

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

July 24, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 3440-002 FLOWLINE RELEASE REM

Enclosed are the results of analyses for samples received by the laboratory on 07/20/23 13:04.

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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/20/2023	Sampling Date:	07/19/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 3 (H233790-01)

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	07/21/2023	ND	2.09	104	2.00	1.43	
Toluene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.98	99.0	2.00	1.69	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.00	99.9	6.00	1.61	
Total BTEX	<0.300	0.300	07/21/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	07/21/2023	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	07/21/2023	ND	173	86.3	200	5.90	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	180	89.8	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane *96.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *106 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/20/2023	Sampling Date:	07/19/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 5 (H233790-02)

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	07/21/2023	ND	2.09	104	2.00	1.43	
Toluene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.98	99.0	2.00	1.69	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.00	99.9	6.00	1.61	
Total BTEX	<0.300	0.300	07/21/2023	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	**352**	16.0	07/21/2023	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	07/21/2023	ND	173	86.3	200	5.90	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	180	89.8	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane *92.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *101 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/20/2023	Sampling Date:	07/19/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 7 (H233790-03)

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	07/21/2023	ND	2.09	104	2.00	1.43	
Toluene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.98	99.0	2.00	1.69	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.00	99.9	6.00	1.61	
Total BTEX	<0.300	0.300	07/21/2023	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	**384**	16.0	07/21/2023	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	07/21/2023	ND	173	86.3	200	5.90	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	180	89.8	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane *94.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *103 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Maverick Natural Resources	Site Manager:	Chuck Terhune
Project Name:	EVGSAU- 3440-002 Flowline Release Rem		281-755-8965 chuck.terhune@tetratech.com
Project Location: (county, state)	Lea County, NM	Project #:	212C-HN-02255 Task 100
Invoice to:	Attn: Bryce Wagoner		
Receiving Laboratory:	Cardinal Labs	Sampler Signature:	Jorge Fernadez
Comments:			

H233790

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
1	SW-3	7/19/2023			x				x				x		x												x							
2	SW-5	7/19/2023			x				x				x		x												x							
3	SW-7	7/19/2023			x				x				x		x												x							

Relinquished by:	Date: 7/20/23 Time: 13:05	Received by: S Rodriguez	Date: 7/20/23 Time: 1304
Relinquished by:	Date: Time:	Received by:	Date: Time:
Relinquished by:	Date: Time:	Received by:	Date: Time:

ORIGINAL COPY

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB USE ONLY
Sample Temperature
5.7c
#140

REMARKS: Standard TAT

M.F.

[X] RUSH: Same Day 24 hr (48 hr) 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

CARDINAL Laboratories

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

July 27, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 3440-002 FLOWLINE RELEASE REM

Enclosed are the results of analyses for samples received by the laboratory on 07/26/23 11:30.

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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/26/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 23 (H233897-01)

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	07/26/2023	ND	1.95	97.7	2.00	4.75	
Toluene*	<0.050	0.050	07/26/2023	ND	1.88	93.9	2.00	5.79	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.96	98.2	2.00	4.83	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	5.18	
Total BTEX	<0.300	0.300	07/26/2023	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	**224**	16.0	07/26/2023	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	07/26/2023	ND	174	86.8	200	10.2	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	187	93.7	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane *82.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *83.5 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/26/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 22 (H233897-02)

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	07/26/2023	ND	1.95	97.7	2.00	4.75	
Toluene*	<0.050	0.050	07/26/2023	ND	1.88	93.9	2.00	5.79	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.96	98.2	2.00	4.83	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	5.18	
Total BTEX	<0.300	0.300	07/26/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	07/26/2023	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	07/26/2023	ND	174	86.8	200	10.2	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	187	93.7	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane *83.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *84.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/26/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 21 (H233897-03)

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	07/26/2023	ND	1.95	97.7	2.00	4.75	
Toluene*	<0.050	0.050	07/26/2023	ND	1.88	93.9	2.00	5.79	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.96	98.2	2.00	4.83	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	5.18	
Total BTEX	<0.300	0.300	07/26/2023	ND					

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

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	07/26/2023	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	07/26/2023	ND	174	86.8	200	10.2	
DRO >C10-C28*	**66.9**	10.0	07/26/2023	ND	187	93.7	200	4.37	
EXT DRO >C28-C36	**67.9**	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane *92.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *104 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/26/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 11 (4.5') (H233897-04)

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	07/26/2023	ND	1.95	97.7	2.00	4.75	
Toluene*	<0.050	0.050	07/26/2023	ND	1.88	93.9	2.00	5.79	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.96	98.2	2.00	4.83	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	5.18	
Total BTEX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	07/26/2023	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	07/26/2023	ND	174	86.8	200	10.2	
DRO >C10-C28*	**16.3**	10.0	07/26/2023	ND	187	93.7	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane *80.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *82.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/26/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 10 (4.5') (H233897-05)

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	07/26/2023	ND	1.95	97.7	2.00	4.75	
Toluene*	<0.050	0.050	07/26/2023	ND	1.88	93.9	2.00	5.79	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.96	98.2	2.00	4.83	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	5.18	
Total BTEX	<0.300	0.300	07/26/2023	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	**368**	16.0	07/26/2023	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	07/26/2023	ND	174	86.8	200	10.2	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	187	93.7	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane *85.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *88.1 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Maverick Natural Resources	Site Manager: Chuck Terhune
Project Name: EVGSAU- 3440-002 Flowline Release Rem	281-755-8965 chuck.terhune@tetratech.com
Project Location: (county, state) Lea County, NM	Project #: 212C-HN-02255 Task 200
Invoice to: Attn: Bryce Wagoner	
Receiving Laboratory: Cardinal Labs	Sampler Signature: Jorge Fernadez
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
H233897		YEAR: 2023																														
1	SW-23	7/21/2023			x			x			x		x												x							
2	SW-22	7/21/2023			x			x			x		x												x							
3	SW-21	7/21/2023			x			x			x		x												x							
4	BH-11 (4.5')	7/21/2023			x			x			x		x												x							
5	BH-10 (4.5')	7/21/2023			x			x			x		x												x							

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Jorge Fernadez V.	7-21-23	16:35	Tamara Oldaker	7-24-23	1130
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	7/24/23	1132			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature 3.9°C

#140

REMARKS: Standard TAT

[X] RUSH: Same Day 24 hr 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

CARDINAL Laboratories

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

July 28, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 3440-002 FLOWLINE RELEASE REM

Enclosed are the results of analyses for samples received by the laboratory on 07/27/23 16:49.

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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 26 (H233964-01)

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	07/28/2023	ND	2.19	110	2.00	2.95	
Toluene*	<0.050	0.050	07/28/2023	ND	2.11	105	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.02	101	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.07	101	6.00	1.22	
Total BTEX	<0.300	0.300	07/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *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	**336**	16.0	07/28/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/28/2023	ND	194	97.0	200	2.84	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	198	99.1	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane *75.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *77.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 16 (5.0') (H233964-02)

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	07/28/2023	ND	2.19	110	2.00	2.95	
Toluene*	<0.050	0.050	07/28/2023	ND	2.11	105	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.02	101	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.07	101	6.00	1.22	
Total BTEX	<0.300	0.300	07/28/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**944**	16.0	07/28/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/28/2023	ND	194	97.0	200	2.84	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	198	99.1	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane *105 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *112 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 14 (5.0') (H233964-03)

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	07/28/2023	ND	2.19	110	2.00	2.95	
Toluene*	<0.050	0.050	07/28/2023	ND	2.11	105	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.02	101	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.07	101	6.00	1.22	
Total BTEX	<0.300	0.300	07/28/2023	ND					

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

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2280**	16.0	07/28/2023	ND	416	104	400	0.00	QM-07

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	07/28/2023	ND	194	97.0	200	2.84	
DRO >C10-C28*	**49.0**	10.0	07/28/2023	ND	198	99.1	200	4.17	
EXT DRO >C28-C36	**10.3**	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane *113 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *120 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 19 (H233964-04)

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	07/28/2023	ND	2.19	110	2.00	2.95	
Toluene*	<0.050	0.050	07/28/2023	ND	2.11	105	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.02	101	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.07	101	6.00	1.22	
Total BTEX	<0.300	0.300	07/28/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**208**	16.0	07/28/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/28/2023	ND	194	97.0	200	2.84	
DRO >C10-C28*	**26.5**	10.0	07/28/2023	ND	198	99.1	200	4.17	
EXT DRO >C28-C36	**19.0**	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane *96.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *103 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 20 (H233964-05)

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	07/28/2023	ND	2.19	110	2.00	2.95	
Toluene*	<0.050	0.050	07/28/2023	ND	2.11	105	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.02	101	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.07	101	6.00	1.22	
Total BTEX	<0.300	0.300	07/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.6 %* *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	**368**	16.0	07/28/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/28/2023	ND	194	97.0	200	2.84	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	198	99.1	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane *87.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *87.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 18 (H233964-06)

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	07/28/2023	ND	2.19	110	2.00	2.95	
Toluene*	<0.050	0.050	07/28/2023	ND	2.11	105	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.02	101	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.07	101	6.00	1.22	
Total BTEX	<0.300	0.300	07/28/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**368**	16.0	07/28/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/28/2023	ND	194	97.0	200	2.84	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	198	99.1	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane *98.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *102 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 17 (H233964-07)

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	07/28/2023	ND	2.19	110	2.00	2.95	
Toluene*	<0.050	0.050	07/28/2023	ND	2.11	105	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.02	101	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.07	101	6.00	1.22	
Total BTEX	<0.300	0.300	07/28/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1010**	16.0	07/28/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/28/2023	ND	194	97.0	200	2.84	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	198	99.1	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane *93.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *97.6 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Maverick Natural Resources	Site Manager:	Chuck Terhune
Project Name:	EVGSAU- 3440-002 Flowline Release Rem		281-755-8965 chuck.terhune@tetratech.com
Project Location: (county, state)	Lea County, NM	Project #:	212C-HN-02255 Task 200
Invoice to:	Attn: Bryce Wagoner		
Receiving Laboratory:	Cardinal Labs	Sampler Signature:	Jorge Fernadez
Comments:			

H239164

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE			# CONTAINERS	FILTERED (Y/N)
		YEAR: 2023											
1	SW-26	7/27/2023			x				x				
2	BH-16 (5.0')	7/26/2023			x				x				
3	BH-14 (5.0')	7/26/2023			x				x				
4	SW-19	7/27/2023			x				x				
5	SW-20	7/26/2023			x				x				
6	SW-18	7/26/2023			x				x				
7	SW-17	7/26/2023			x				x				

ANALYSIS REQUEST (Circle or Specify Method No.)

	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
1	x		x												x							
2	x		x												x							
3	x		x												x							
4	x		x												x							
5	x		x												x							
6	x		x												x							
7	x		x												x							

Relinquished by: Jorge Fernandez — Date: 7-27-23 — Time: 16:49

Received by: — Date: 7-27-23 — Time: 1649

Relinquished by: — Date: — Time:

Received by: — Date: — Time:

Relinquished by: — Date: — Time:

Received by: — Date: — Time:

LAB USE ONLY

Sample Temperature 2.7c° #140

REMARKS: Standard TAT

[X] RUSH: Same Day 24 hr 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

CARDINAL Laboratories

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

July 31, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 3440-002 FLOWLINE RELEASE REM

Enclosed are the results of analyses for samples received by the laboratory on 07/28/23 16:02.

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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/28/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 21 (H234002-01)

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	07/28/2023	ND	2.10	105	2.00	1.13	
Toluene*	<0.050	0.050	07/28/2023	ND	2.03	101	2.00	3.02	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	1.97	98.5	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	5.91	98.5	6.00	3.16	
Total BTEX	<0.300	0.300	07/28/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	07/31/2023	ND	432	108	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2023	ND	184	92.2	200	3.25	
DRO >C10-C28*	**40.7**	10.0	07/29/2023	ND	188	94.2	200	5.96	
EXT DRO >C28-C36	**45.2**	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane *90.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *98.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/28/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 24 (H234002-02)

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	07/28/2023	ND	2.10	105	2.00	1.13	
Toluene*	<0.050	0.050	07/28/2023	ND	2.03	101	2.00	3.02	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	1.97	98.5	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	5.91	98.5	6.00	3.16	
Total BTEX	<0.300	0.300	07/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.9 %* *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	07/31/2023	ND	432	108	400	3.64	

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	07/29/2023	ND	184	92.2	200	3.25	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	188	94.2	200	5.96	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane *65.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *63.6 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/28/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 28 (H234002-03)

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	07/28/2023	ND	2.10	105	2.00	1.13	
Toluene*	<0.050	0.050	07/28/2023	ND	2.03	101	2.00	3.02	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	1.97	98.5	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	5.91	98.5	6.00	3.16	
Total BTEX	<0.300	0.300	07/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**432**	16.0	07/31/2023	ND	432	108	400	3.64	

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	07/29/2023	ND	184	92.2	200	3.25	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	188	94.2	200	5.96	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane *75.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *66.8 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/28/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 12 (4.5') (H234002-04)

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	07/29/2023	ND	2.10	105	2.00	1.13	
Toluene*	<0.050	0.050	07/29/2023	ND	2.03	101	2.00	3.02	
Ethylbenzene*	<0.050	0.050	07/29/2023	ND	1.97	98.5	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/29/2023	ND	5.91	98.5	6.00	3.16	
Total BTEX	<0.300	0.300	07/29/2023	ND					

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

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**400**	16.0	07/31/2023	ND	432	108	400	3.64	

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	07/29/2023	ND	184	92.2	200	3.25	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	188	94.2	200	5.96	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane *84.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *88.8 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/28/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 13 (5.0') (H234002-05)

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	07/29/2023	ND	2.10	105	2.00	1.13	
Toluene*	<0.050	0.050	07/29/2023	ND	2.03	101	2.00	3.02	
Ethylbenzene*	<0.050	0.050	07/29/2023	ND	1.97	98.5	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/29/2023	ND	5.91	98.5	6.00	3.16	
Total BTEX	<0.300	0.300	07/29/2023	ND					

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

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2880**	16.0	07/31/2023	ND	432	108	400	3.64	

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	07/29/2023	ND	184	92.2	200	3.25	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	188	94.2	200	5.96	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane *91.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *96.8 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Maverick Natural Resources

Site Manager: Chuck Terhune, 281-755-8965, chuck.terhune@tetratech.com

Project Name: EVGSAU- 3440-002 Flowline Release Rem

Project Location: (county, state): Lea County, NM

Project #: 212C-HN-02255 Task 200

Invoice to: Attn: Bryce Wagoner

Receiving Laboratory: Cardinal Labs

Sampler Signature: Jorge Fernadez

Comments:

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY) H234002	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2023)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	HNO_3	ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
1	SW-21	7/28/2023			x			x			x		x												x				
2	SW-24	7/28/2023			x			x			x		x												x				
3	SW-28	7/28/2023			x			x			x		x												x				
4	BH-12 (4.5')	7/28/2023			x			x			x		x												x				
5	BH- 13(5.0')	7/28/2023			x			x			x		x												x				

Relinquished by: Jorge Fernadez [signature] Date: 7-28-23 Time: 1602

Received by: [signature] Date: 7-28-23 Time: 1602

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY
Sample Temperature 2.4°c
#140

REMARKS: Standard TAT

[x] RUSH: Same Day (24 hr circled) 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

CARDINAL Laboratories

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

August 07, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 3440-002 FLOWLINE RELEASE REM

Enclosed are the results of analyses for samples received by the laboratory on 08/03/23 16:35.

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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	08/03/2023	Sampling Date:	08/02/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 25 (H234138-01)

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	08/05/2023	ND	2.06	103	2.00	2.63	
Toluene*	<0.050	0.050	08/05/2023	ND	1.96	98.2	2.00	1.45	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	2.03	102	2.00	1.88	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.96	99.4	6.00	2.77	
Total BTEX	<0.300	0.300	08/05/2023	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	**144**	16.0	08/07/2023	ND	432	108	400	3.64	

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	08/04/2023	ND	170	85.1	200	6.10	
DRO >C10-C28*	**39.4**	10.0	08/04/2023	ND	187	93.4	200	3.91	
EXT DRO >C28-C36	**36.6**	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane *126 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *132 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	08/03/2023	Sampling Date:	08/02/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 15 (5.0') (H234138-02)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	2.06	103	2.00	2.63	
Toluene*	<0.050	0.050	08/05/2023	ND	1.96	98.2	2.00	1.45	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	2.03	102	2.00	1.88	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.96	99.4	6.00	2.77	
Total BTEX	<0.300	0.300	08/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *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	**1170**	16.0	08/07/2023	ND	432	108	400	3.64	

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	08/04/2023	ND	170	85.1	200	6.10	
DRO >C10-C28*	**22.2**	10.0	08/04/2023	ND	187	93.4	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane *108 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *118 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	08/03/2023	Sampling Date:	08/03/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 4 (H234138-03)

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	08/05/2023	ND	2.17	109	2.00	0.550	
Toluene*	<0.050	0.050	08/05/2023	ND	2.10	105	2.00	1.73	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	2.06	103	2.00	0.413	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	6.18	103	6.00	0.653	
Total BTEX	<0.300	0.300	08/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.6 %* *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	**480**	16.0	08/07/2023	ND	432	108	400	3.64	

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	08/04/2023	ND	170	85.1	200	6.10	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	187	93.4	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane *95.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *104 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

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

Received:	08/03/2023	Sampling Date:	08/03/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 6 (H234138-04)

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	08/05/2023	ND	2.17	109	2.00	0.550	
Toluene*	<0.050	0.050	08/05/2023	ND	2.10	105	2.00	1.73	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	2.06	103	2.00	0.413	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	6.18	103	6.00	0.653	
Total BTEX	<0.300	0.300	08/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.4 %* *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	**480**	16.0	08/07/2023	ND	432	108	400	3.64	

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	08/04/2023	ND	170	85.1	200	6.10	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	187	93.4	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane *102 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *116 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	08/03/2023	Sampling Date:	08/03/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 8 (H234138-05)

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	08/05/2023	ND	2.17	109	2.00	0.550	
Toluene*	<0.050	0.050	08/05/2023	ND	2.10	105	2.00	1.73	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	2.06	103	2.00	0.413	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	6.18	103	6.00	0.653	
Total BTEX	<0.300	0.300	08/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.0 %* *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	**240**	16.0	08/07/2023	ND	432	108	400	3.64	

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	08/04/2023	ND	170	85.1	200	6.10	
DRO >C10-C28*	**67.7**	10.0	08/04/2023	ND	187	93.4	200	3.91	
EXT DRO >C28-C36	**51.5**	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane *114 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *120 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	08/03/2023	Sampling Date:	08/03/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 10 (H234138-06)

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	08/05/2023	ND	2.17	109	2.00	0.550	
Toluene*	<0.050	0.050	08/05/2023	ND	2.10	105	2.00	1.73	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	2.06	103	2.00	0.413	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	6.18	103	6.00	0.653	
Total BTEX	<0.300	0.300	08/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.1 %* *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	**160**	16.0	08/07/2023	ND	432	108	400	3.64	

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	08/04/2023	ND	170	85.1	200	6.10	
DRO >C10-C28*	**16.3**	10.0	08/04/2023	ND	187	93.4	200	3.91	
EXT DRO >C28-C36	**10.5**	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane *99.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *107 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	08/03/2023	Sampling Date:	08/03/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 17 (H234138-07)

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	08/05/2023	ND	2.17	109	2.00	0.550	
Toluene*	<0.050	0.050	08/05/2023	ND	2.10	105	2.00	1.73	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	2.06	103	2.00	0.413	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	6.18	103	6.00	0.653	
Total BTEX	<0.300	0.300	08/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.7 %* *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	**400**	16.0	08/07/2023	ND	432	108	400	3.64	

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	08/04/2023	ND	170	85.1	200	6.10	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	187	93.4	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane *110 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *120 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 W W. 1 Street, Ste 100
Mirlland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Maverick Natural Resources

Site Manager: Chuck Terhune

Project Name: EVGSAU- 3440-002 Flowline Release Rem

281-755-8965
chuck.terhune@tetratech.com

Project Location: (county, state) Lea County, NM

Project #: 212C-HN-02255 Task 200

Invoice to: Attn: Bryce Wagoner

Receiving Laboratory: Cardinal Labs

Sampler Signature: Jorge Fernadez

Comments:

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2023)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD:	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
H234138																																			
1	SW-25	8/2/2023			x				x					x		x												x							
2	BH-15 (5.0')	8/2/2023			x				x					x		x												x							
3	SW-4	8/3/2023			x				x					x		x												x							
4	SW-6	8/3/2023			x				x					x		x												x							
5	SW-8	8/3/2023			x				x					x		x												x							
6	SW-10	8/3/2023			x				x					x		x												x							
7	SW-17	8/3/2023			x				x					x		x												x							

Relinquished by: Date: Time: 8-3-23

Relinquished by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

Received by: Rodriguez 8/3/23 1035 Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature 2.5 #140

REMARKS: Standard TAT

[X] RUSH: Same Day 24 hr (48 hr) 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

CARDINAL Laboratories

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

August 09, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 3440-002 FLOWLINE RELEASE REM

Enclosed are the results of analyses for samples received by the laboratory on 08/08/23 15:50.

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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/09/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 27 (H234238-01)

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	08/09/2023	ND	2.14	107	2.00	3.20	
Toluene*	<0.050	0.050	08/09/2023	ND	2.06	103	2.00	3.29	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	1.93	96.4	2.00	4.51	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	5.76	96.0	6.00	4.22	
Total BTEX	<0.300	0.300	08/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.1 %* *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	**80.0**	16.0	08/09/2023	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	08/09/2023	ND	165	82.5	200	2.76	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	155	77.5	200	4.43	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane *74.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *75.4 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/09/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 8 (H234238-02)

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	08/09/2023	ND	2.14	107	2.00	3.20	
Toluene*	<0.050	0.050	08/09/2023	ND	2.06	103	2.00	3.29	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	1.93	96.4	2.00	4.51	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	5.76	96.0	6.00	4.22	
Total BTEX	<0.300	0.300	08/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.0 %* *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	**80.0**	16.0	08/09/2023	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	08/09/2023	ND	165	82.5	200	2.76	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	155	77.5	200	4.43	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane *57.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *58.5 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

Page 1 of

Page 5 of 5

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Maverick Natural Resources	Site Manager: Chuck Terhune
Project Name: EVGSAU- 3440-002 Flowline Release Rem	281-755-8965 chuck.terhune@tetratech.com
Project Location: (county, state) Lea County, NM	Project #: 212C-HN-02255 Task 200
Invoice to: Attn: Bryce Wagoner	
Receiving Laboratory: Cardinal Labs	Sampler Signature: Jorge Fernadez
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2023 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
H234238																																		
1	SW-27	8/8/2023			X				X				X		X												X							
2	SW-8	8/8/2023			X				X				X		X												X							

Relinquished by: Date: Time:
Jorge Fernadez 8-8-23

Received by: Date: Time:
1550 8-8-23

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY
Sample Temperature
2.3°
#140

REMARKS: Standard TAT

[X] RUSH: Same Day (24 hr) 48 hr 72 hr

[ ] Rush Charges Authorized

[ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Send to: Steve.Jester@Tetratech.com

ATTACHMENT 6: NMSLO SEED MIXTURE DETAILS

NMSLO Seed Mix Loamy (L)

LOAMY (L) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Black grama	VNS, Southern	1.0	D
Blue grama	Lovington	1.0	D
Sideoats grama	Vaughn, El Reno	4.0	F
Sand dropseed	VNS, Southern	2.0	S
Alkali sacaton	VNS, Southern	1.0	
Little bluestem	Cimarron, Pastura	1.5	F
Forbs:			
Firewheel (*Gaillardia*)	VNS, Southern	1.0	D
Shrubs:			
Fourwing saltbush	Marana, Santa Rita	1.0	D
Common winterfat	VNS, Southern	0.5	F
	Total PLS/acre	**18.0**	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box
VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at http://plants.usda.gov.

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Santa Fe, NM 87505

QUESTIONS

Action 378718

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 378718
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2129936218**
Incident Name	**NAPP2129936218 EVGSAU 3440-002 @ 30-025-03008**
Incident Type	**Release Other**
Incident Status	**Remediation Plan Approved**
Incident Well	**[30-025-03008] EAST VACUUM (GSA) UNIT #002H**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	EVGSAU 3440-002
Date Release Discovered	10/12/2021
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Corrosion | Flow Line - Production | Crude Oil | Released: 7 BBL | Recovered: 0 BBL | Lost: 7 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion | Flow Line - Production | Produced Water | Released: 128 BBL | Recovered: 0 BBL | Lost: 128 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
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	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetratech.com Date: 08/28/2024

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QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 378718
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Zero feet, overlying, or within area
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Zero feet, overlying, or within area
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	8480
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	16550
GRO+DRO (EPA SW-846 Method 8015M)	14440
BTEX (EPA SW-846 Method 8021B or 8260B)	49.2
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	09/30/2024
On what date will (or did) the final sampling or liner inspection occur	01/10/2025
On what date will (or was) the remediation complete(d)	01/15/2025
What is the estimated surface area (in square feet) that will be reclaimed	21700
What is the estimated volume (in cubic yards) that will be reclaimed	21700
What is the estimated surface area (in square feet) that will be remediated	21700
What is the estimated volume (in cubic yards) that will be remediated	1500
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

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	Action Number: 378718
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetratech.com Date: 08/28/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 378718
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 378718
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**354542**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**07/18/2024**
What was the (estimated) number of samples that were to be gathered	**1**
What was the sampling surface area in square feet	**140**

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

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CONDITIONS

Action 378718

CONDITIONS

Operator:	OGRID:
Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	331199
	Action Number: 378718
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved with conditions. Confirmation soil samples must consist of five-point composite samples from the side walls and base, representing a surface area of no more than 200 ft2. Confirmation samples should be tested for all Table 1 constituents. A variance is approved to re-use the non waste containing soil that was hauled in to cover the previously excavated areas, providing that laboratory results are below <50 feet to groundwater Table 1 standards. This soil must be sampled at a frequency of one 5-point composite sample per 100 cubic yards of soil. Submit remediation closure report to the OCD by 11/29/2024.	8/28/2024