

Incident ID	NRM1930958355
District RP	1RP-5782
Facility ID	fGRL0928155860
Application ID	pRM1930959194

Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

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

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

Printed Name: Sam WidmerTitle: Principal Program Manager

Signature: _____

DocuSigned by:

Sam WidmerDate: Apr-05-2022

5454CA5BAD33498...

email: Sam.Widmer@conocophillips.comTelephone: 281-206-5298

OCD Only

Received by: Robert HamletDate: 9/14/2022

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

Closure Approved by: Robert HamletDate: 9/14/2022Printed Name: Robert HamletTitle: Environmental Specialist - Advanced



April 6, 2022

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

**Re: Closure Report
ConocoPhillips
VGEU 01-02 Flowline Release
Unit Letter J/K, Section 28, Township 17 South, Range 35 East
Lea County, New Mexico
1RP-5782
Incident ID nRM1930958355**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to assess a release that occurred from a flowline associated with the Vacuum Glorietta East Unit (VGEU) 01-02 well. The release site footprint is located in Public Land Survey System (PLSS) Unit Letters J and K, Section 28, Township 17 South, Range 35 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.803350°, -103.462965°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report (Appendix A), the release was discovered on October 10, 2019. The C-141 mistakenly identifies the Site as "VGEU 02-01;" when in fact, the release occurred from a ruptured flowline associated with the VGEU 01-02 well (located in Section 28), API # 30-025-20719. As documented on the C-141 form, a flowline rupture led to the release of approximately 11 barrels (bbls) of oil and 362 bbls of produced water. During the initial response, 5.5 bbls of oil and 174.5 bbls of produced water were recovered. The release notification was received by the NMOCD on October 16, 2019 and subsequently assigned the District Remediation Permit (RP) number 1RP-5782 and the Incident ID nRM1930958355.

SITE CHARACTERIZATION

A site characterization was performed and per 19.15.29.12 NMAC, no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances and the Site is in a low karst potential area. The Site is within a New Mexico oil and gas production area. A portion of the release extent is located within 200 feet of a probable playa lake.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there is one water well within ½ mile (800 meters) of the Site. The well has a depth to groundwater of 80 feet below ground surface (bgs). Additionally, the USGS well database indicates a second water well is located within ½ mile to the south with a depth to groundwater of 77 feet bgs. Based on the above data, the depth to groundwater in the area is 51-100 feet as described in the Table I closure criteria. The site characterization data is included in Appendix B.

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REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil. Based on the lateral extents and the proximity to a probable playa lake, the proposed RRALs for the Site in the approved Work Plan were as follows:

Constituent	RRAL
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Upon review of the entire release footprint and surrounding features, there is a portion of the lateral extents of the release (to the north and west) which lies outside of the stipulated 200 feet of the probable playa lake (measured from the ordinary high-water mark). Thus, as described in further detail below, based on the site characterization, the lateral extents of the release, depth to groundwater, and in accordance with Table I of 19.15.29.12 NMAC, the RRALs for the Site below 4' bgs (to the north and west) are as follows:

Constituent	Site RRALs
Chloride	10,000 mg/kg
TPH	2,500 mg/kg
BTEX	50 mg/kg

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

Constituent	Reclamation Requirements
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg

INITIAL RESPONSE AND ASSESSMENT ACTIVITIES

According to information provided by COP, the release extent was identified as an area extending from the aboveground steel surface flowline approximately 800 feet southeast of the VGEU 01-02 well. Fluids released from the steel surface flowline ran in a pasture area from the release origination point toward the southeast for approximately 265 feet (ft) to a lease road, then continued along the lease road to the northeast for approximately 240 ft toward another well pad (API # 30-025-33710) (Figure 3). The released fluids then pooled southwest of the well pad and then continued on approximately 200 ft south in a pasture area. The entire release area covered approximately 30,000 square ft.

Per 19.15.29.8 B. (4) NMAC, the responsible party may commence remediation immediately after discovery of a release. The release footprint was fenced to limit access to the site as necessary to protect human health and the environment. COP initiated remediation activities in late 2019. During remediation, the visibly impacted soils within the release extent were excavated to 0.5 feet below ground surface (bgs). Following initial response remediation activities, COP personnel collected soil samples from twenty-four (24) locations on November 1 through 4, 2019 within the excavated area. These soil samples were sent to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for chloride via EPA Method SM45000Cl-B. Sample locations are shown in Figure 3.

Analytical results associated with all twenty-four (24) sample locations exceed the reclamation concentration (0-4 ft bgs) of 600 mg/kg chloride. Analytical results from the initial assessment are summarized in Table 1. After the initial response remediation activities, further remediation efforts were halted to assess soils both vertically and horizontally for potential environmental impacts.

ADDITIONAL SITE ASSESSMENT AND RESULTS

Tetra Tech personnel were onsite on March 25, 2020 to conduct soil sampling to achieve horizontal and vertical delineation of the release extent. A total of ten (10) borings (BH-1 through BH-10) were installed using an air rotary drilling rig. Four borings, BH-1 through BH-4, were installed within the preexisting excavated area at depths ranging from 7 ft (BH-4) to 45 ft (BH-1) bgs to achieve vertical delineation. The remaining six borings were installed along the perimeter of the release extent at depths ranging from 3 ft (BH-10) and 5 ft (BH-5 through BH-9) bgs to achieve horizontal delineation. Boring termination depths were determined by field screening results as well as the presence of caprock, which was encountered in seven of the ten borings (BH-1, BH-2, BH-3, BH-4, BH-6, BH-9, and BH-10) at depths ranging from 3 ft to 7 ft bgs.

A total of thirty-eight (38) samples were collected from the ten borings and submitted to Pace Analytical National Center for Testing & Innovation in Nashville, Tennessee to be analyzed for chlorides via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. Figure 4 depicts the release extent, excavated area and the March 2020 soil boring locations.

Results from the March 2020 soil sampling event are summarized in Table 2. The analytical results associated with borings BH-2 and BH-3 exceeded the Site reclamation/remediation RRAL for TPH (100 mg/kg) down to 4 ft bgs. The analytical results associated with boring BH-1 exceeded the RRAL for chloride (600 mg/kg) down to 30 ft bgs. The analytical results associated with borings BH-2, BH-3, and BH-4 exceeded the RRAL for chloride down to 4 ft bgs. The analytical results associated with all samples analyzed were below the BTEX Site RRAL of 50 mg/kg. There were no exceedances of Site RRALs in any of the perimeter borings. Therefore, both horizontal and vertical delineation was achieved during the March 2020 soil assessment activities.

REMEDIATION WORK PLAN AND ALTERNATIVE CONFIRMATION SAMPLING PLAN

The Release Characterization Work Plan (Work Plan) was prepared by Tetra Tech on behalf of ConocoPhillips and submitted to NMOCD on February 2, 2021 with fee application payment PO Number KLN00-210202-C-1410. The Work Plan described the results of the release assessment and provided characterization of the impact at the site. The Work Plan was approved via email by Robert Hamlet on Tuesday, July 13, 2021 with the following condition:

- *“Surface to 4’ below ground surface sidewall/floor samples need to comply with the strictest closure criteria limits 600 mg/kg for Chlorides and 100 mg/kg TPH. In the pasture area, 4 feet below the ground surface, soil contamination limits revert back to Table 1 in the spill rule. If rock refusal is encountered, use hydrovac to clean contaminated soil off rock. After rock surface is clean, layer rock with microbial strains to digest organics and hydrocarbons if present. Back-fill with clean material. Alternative sample plan is approved with 500 ft2 closure confirmation samples. Liner at the base of excavation is denied.”*

REGULATORY CORRESPONDENCE

Tetra Tech contacted NMOCD via email to discuss the condition of approval, specifically due the lateral extents of the release and the proximity of the release extents to the probable playa lake. The conditions of approval seemingly indicated that although the liner request was denied, the action levels would revert to Table 1 in the spill rule below 4’ bgs, which, based on the site characterization and depth to groundwater, would mean that 10,000 mg/kg chloride concentrations would be acceptable below 4’ bgs. Associated regulatory correspondence is found in Appendix C. The conditions were not clarified in further email

correspondence. This condition hinged upon determination of the established groundwater at the Site and Tetra Tech requested guidance on the proposed RRALs at 4' bgs (which would set the excavation depth for the site) and would be obviously directed by establishment of DTW in the vicinity of the site.

Mike Bratcher of the NMOCDD was contacted by Tetra Tech via phone and informed of the situation on December 16, 2021. Based on conversations with Mr. Bratcher, when lateral extents of the release were in the proximity of the playa lake, it would necessitate remediation to the most stringent RRALs. However, due to the size of the release area, the proposed remediation area could be divided into two segments. The question of groundwater determination had still not been fully concluded, however. Tetra Tech contacted Chad Hensley with the OCD on January 4, 2022 and presented the state of affairs via email. Mr. Hensley provided a DTW of 77.03' bgs for the Site in email correspondence which clarified the circumstances and set the remediation on a final path forward. Upon this clarification, Mr. Hamlet was contacted by Tetra Tech via phone and informed of the proposed path forward. Mr. Hamlet concurred with the decision-making process and supported the conclusion.

Thus, the first segment of the release extent, in the north and western portion of the release area, was outside of the 200-foot threshold and could be remediated to Table 1 criteria below 4 feet bgs based on the depth to groundwater determination (51-100 feet). The second segment, in the south and eastern portion of the release area would be remediated to the strictest criteria due to the proximity (within 200 feet) to a probable playa lake to the southeast. Associated regulatory correspondence is found in Appendix C.

EVGSAU SATELLITE 1 / 2 TRUNK LINE RELEASE

Shortly after the commencement of the VGEU 01-02 remedial activities, the adjacent EVGSAU Satellite 1 / 2 fiberglass trunk line was struck by heavy equipment causing an unplanned release within the existing VGEU 01-02 Flowline release work area. According to the associated State of New Mexico C-141 Initial Report, the release occurred between 7:30 and 8:00 AM on October 25, 2021. As documented on the C-141 form, the EVGSAU Satellite 1 / 2 eight-inch production trunk line was inadvertently struck with the excavator bucket during remediation activities being conducted for the subject incident (nRM1930958355). The source of the release was stopped (trunk line shut in) at approximately 9:35 AM on October 25, 2021. The majority of the release footprint was contained within the existing open excavation.

The line strike resulted in the release of approximately 211 barrels (bbls) of produced water and 32 bbls of oil were reported released, of which 200 bbls produced water and 30 bbls oil were recovered. The release was observed as encompassing an area of approximately 5,300 square feet (sf) of area, largely confined within the existing excavation and working area, with some impacted overspray area on an adjacent caliche lease road. The release area footprint outside the excavation was bermed and fenced as a portion of initial response activities.

Work on the VGEU 01-02 Flowline release was temporarily halted to conduct remediation at the EVGSAU Satellite 1 / 2 trunkline release area. Remedial activities were conducted at the EVGSAU Satellite 1 / 2 trunkline site from October 27, 2021, and finally culminating January 12, 2022. Work on the VGEU 01-02 flowline was conducted simultaneously beginning in early December 2021. Excavation continued until a representative sample from the walls and bottom of the excavation had a field screening value inferred as lower than the RRALs for the site. The previously excavated area (from the nRM1930958355 activities) was deepened 2' from 4' bgs for a total of 6' bgs.

Thus, COP excavated the majority of the footprint of the trunkline release within the existing excavation to 6' bgs as shown in Figure 4. In accordance with 19.15.29.12(D)(1)(b) NMAC, COP conducted confirmation sampling of the remediated area for verification of remedial activities where each sidewall and floor sample was representative of approximately 200 square feet. A total of twenty-three (23) floor sample locations and twenty-one (24) sidewall sample locations were used during the remedial activities conducted from November 2021 to January 2022. Sidewall samples were largely collected at the interstitial edge of the 6' bgs excavated area, to distinguish any previous historical impact from the VGEU 01-02 release extents. The analytical results were compared to the most stringent action levels, given that the DTW questions previously described in the regulatory correspondence section. The floor sample locations used to confirm

contaminant removal at the EVGSAU Satellite 1 / 2 trunkline site were also utilized for the VGEU 01-02 Flowline release remediation, further described below. Following the remediation of the EVGSAU Satellite 1 / 2 trunk line release, COP submitted a Closure Report to the NMOCD requesting closure of incident ID nAPP2130843704 on January 24, 2022, with fee application payment PO Number S9M8Q-220124-C-1410, within 90 days of the release discovery date.

REMEDATION ACTIVITIES AND CONFIRMATION SAMPLING

With regard to the VGEU 01-02 Flowline release, from October 4, 2021 to February 17, 2022, Tetra Tech personnel were onsite to supervise the remediation activities proposed in the approved Work Plan, including excavation, disposal, and confirmation sampling. Impacted soils were excavated until a representative sample from the walls and bottom of the excavation had a field screening value inferred as lower than the RRALs for the Site. Once field screening was completed, confirmation floor and sidewall samples were collected for laboratory analysis to verify that the impacted materials were properly removed. The entire remediated area for the Site is indicated in Figure 5.

Remedial activities associated with the VGEU 01-02 flowline release began in the northwestern portion of the release extent, near the approximate release point, as shown in Figures 5 and 5A. From October 4 to October 25, 2021, approximately 17,000 square feet of the western portion of the release area had been excavated to depths ranging from 4 to 5 feet bgs.

As detailed the previous section of this report, the line strike on the 8" fiberglass trunk line occurred while excavating impacted soil associated with the nRM1930958355 release. The trunk line is a subsurface line, approximately 3' below ground surface, and the line strike occurred at approximately 32.802863°, -103.462575°. The released fluids flowed into the open excavation in the area of on-going remediation activities. Following the repair of the trunk line, the release associated with the line strike was remediated, and remediation of the subject nRM1930958355 release continued.

On January 13, 2022, the remedial activities associated with the nRM1930958355 release continued at the southern and eastern extents of the remediated area associated with the EVGSAU Satellite 1 / 2 line strike incident. The majority of the release area to the south and east was eventually excavated to a depth of 5 feet bgs with select areas being excavated to 4 feet bgs as shown on Figure 5B.

Per the approved Alternative Confirmation Sampling Plan, confirmation samples were collected such that each discrete sample (sidewall and floor) were representative of no more than 500 square feet of excavated area. Confirmation samples were collected from eighty-six (86) floor sample location and sixty-three (63) sidewall sample locations during the remedial activities associated with the VGEU 01-02 Flowline release. Confirmation sidewall sample locations were categorized with the cardinal direction (N, E, S, W) followed by SW-#. Confirmation floor sample locations were labeled with "FS"-#. The "21" series designation is used to differentiate the trunkline data from the subject incident confirmation data. Excavated areas, depths and confirmation sample locations are shown in Figures 4, 5A and 5B.

As mentioned in the "Regulatory Correspondence" section of this report, the confirmation sampling analytical data was compared to action levels over two separate segments. Segment I includes areas in the vicinity of confirmation floor samples FS-1 through FS-22. Segment II includes areas in the vicinity of confirmation floor samples FS-28 through FS-86. Segment I confirmation samples were compared to Table I closure criteria (based on 51-100 feet depth to groundwater determination), while Segment II confirmation samples were compared to the most stringent Table I criteria due to the proximity to a probable playa lake.

Iterative confirmation samples were located to encompass the original sample locations that triggered removal (nomenclature defined in Table 4) post-additional excavation. If the sidewall area was expanded due to unacceptable confirmation sample results, the parentheses indicate the expansion iteration. For floor samples, the parentheses indicate the excavation floor depth from which the sample was collected.

Collected confirmation samples to be submitted for analysis were placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed within appropriate holding times by Cardinal

Laboratories in Hobbs, New Mexico. The soil samples were analyzed for TPH (GRO, DRO and ORO) by EPA Method 8015M, BTEX by EPA Method 8021B, and chloride by SM4500Cl-B. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D.

Segment I Confirmation Sampling Results

The initial round of field screening and confirmation soil sampling analytical results indicated elevated concentrations of chloride at five confirmation floor sample locations. Only sample location FS-1 had TPH concentrations above Site RRALs. A chloride "hot spot" emerged in the vicinity of sample locations FS-6, FS-8 and FS-12. These areas of the excavation associated with the sample locations exhibiting chloride and/or TPH concentrations above the Site RRALs were deepened accordingly.

Additionally, portions of the excavation sidewalls were extended laterally due to elevated chloride and/or TPH concentrations in confirmation sidewall analytical results. Once the impacted soil was presumed to have been removed (based on field screening results), iterative confirmation sampling was conducted. After receiving analytical results that were below Site RRALs for chloride, TPH and BTEX in these expanded and deepened areas, this release area segment is considered to have been remediated in accordance with 19.15.29.12 NMAC.

EVGSAU Satellite 1 / 2 Trunkline Release Sampling Results

Confirmation sidewall sample locations were categorized with the cardinal direction (N, E, S, W) followed by SW-21-#. Sidewall samples were collected in representative locations which distinguish the impact from the nAPP2130843704 from the initial nRM1930958355 release. The 21 designation serves to differentiate these locations from the VGEU 01-02 Release footprint sample locations. The initial round of field screening and confirmation soil sampling indicated elevated concentrations of chloride and/or TPH at sample locations FS-21-1 and SW-21-1. These areas of the excavation associated with the locations exhibiting chloride and/or TPH concentrations above the reclamation requirements were deepened and extended laterally. Once the impacted soil was presumed to have been removed, iterative confirmation sampling was conducted.

All final confirmation soil samples (floor and sidewall) were below the respective RRALs for BTEX, TPH and chlorides, except for two locations. At FS-21-1 (5'), located within the buffer zone for the fiberglass trunkline, the dense subsurface lithology prevented the non-aggressive methods (hand-digging and/or hydro-vac) from further excavation in that area. Analytical results for TPH slightly exceeded the RRAL of 100 mg/kg.

After receiving analytical results that were below Site RRALs for chloride, TPH and BTEX in these extended and deepened areas, this portion of the release area is considered to have been remediated in accordance with 19.15.29.12 NMAC. The analytical results of the confirmation sampling associated with the EVGSAU Satellite 1 / 2 trunk line release remediation are summarized in Table 3. Three floor sample locations associated with the remediation work in the overlapping area between the two releases that was not in an open excavation (FS-28, FS-29 and FS-31) were used as coincident sampling points and are included in the following section. Originally designated floor sample locations FS-23 through FS-27 were supplanted by the floor sample locations associated with the EVGSAU Satellite 1 / 2 Trunkline remediation.

Segment II Confirmation Sampling Results

The initial round of field screening and confirmation soil sampling concentrations of chloride above RRAL/reclamation requirements at most confirmation floor sample locations and eight confirmation sidewall sample locations. Only sidewall sample locations NSW-13, NSW-15 and NSW-16 had TPH concentrations above reclamation requirements. These areas of the excavation associated with the sample locations with analytical results exhibiting chloride and/or TPH concentrations above the Site RRALs were deepened and/or extended and iterative sampling was conducted. At locations FS-30 and FS-31 (6'), both adjacent to a steel surface flowline, large dense boulders precluded further excavation in the area, and the final analytical results for chloride slightly exceeded the RRAL of 600 mg/kg.

Release Characterization and Remediation Work Plan
April 6, 2022

ConocoPhillips

Several safety concerns emerged during the remediation, especially with regard to power poles within the proposed excavation footprint, as well as both fiberglass and steel surface lines in proximity to the playa lake. Given the fact that a line strike had already occurred during the course of the remediation, health and safety issues were of utmost importance onsite. Several areas were hand-dug within excavation area footprints, as indicated on Figures 5A and 5B. Impacted soils in the vicinity of these areas were dug by hand to the maximum extent practicable, however heavy machinery was used no less than 3 ft from any energized lines in the playa proximity. Additionally, a 10-foot diameter buffer was established around electrical poles and associated guy wires, and heavy machinery remained outside this buffer zone.

With the exception of the previously mentioned confirmation floor sample locations FS-21-1, FS-30 and FS-31, all final confirmation soil samples (floor and sidewall) were below the respective RRALs and/or reclamation requirements for chloride, BTEX, and TPH. The results of the October 2021 through January 2022 confirmation sampling events (segment I and segment II) are summarized in Table 4.

All the excavated material was transported offsite for proper disposal. Approximately 7,844 cubic yards (not including an additional 363 yards from the EVGSAU Satellite 1 / 2 trunkline incident remediation) of material were transported to the R360 facility in Hobbs, New Mexico. Photographs from the excavated areas prior to backfill are provided in Appendix E. Once confirmation sampling activities were completed and associated analytical results were below the RRALs, the excavated areas were backfilled with clean material to surface grade. Due to the number and large file size associated with the waste manifests, they are not included in this report; however, waste manifests can be uploaded to the portal separately at NMOC request.

RECLAMATION

As prescribed in the Work Plan, the excavated areas were backfilled with topsoil from local rancher pits. The backfilled areas were seeded in February 2022 to aid in revegetation. Based on the soils at the site and the approved Work Plan, the New Mexico State Land Office (NMSLO) Loamy (L) Sites Seed Mixture was used for seeding and planted in the amount specified in the pounds pure live seed (PLS) per acre.

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

CONCLUSION

ConocoPhillips respectfully requests closure of this release based on the confirmation sampling results and remediation activities performed. The final C-141 forms are enclosed in Appendix A. If you have any questions concerning the remediation activities for the Site, please call me at (512) 217-7254 or Christian at (512) 338-2861.

Sincerely,
Tetra Tech, Inc.



Ryan C. Dickerson
Project Manager

cc:
Mr. Sam Widmer, RMR – ConocoPhillips



Christian M. Llull, P.G.
Program Manager

LIST OF ATTACHMENTS

Figures:

- Figure 1 – Overview Map
- Figure 2 – Site Location/Topographic Map
- Figure 3 – Site Assessment Map
- Figure 4 – EVGSAU Satellite 1 / 2 Trunkline Release Remediation Extents and Confirmation Sampling Locations
- Figure 5 – Remediation Extents
- Figure 5A – Remediation Extent and Confirmation Sampling Locations (Segment I)
- Figure 5B – Remediation Extent and Confirmation Sampling Locations (Segment II)

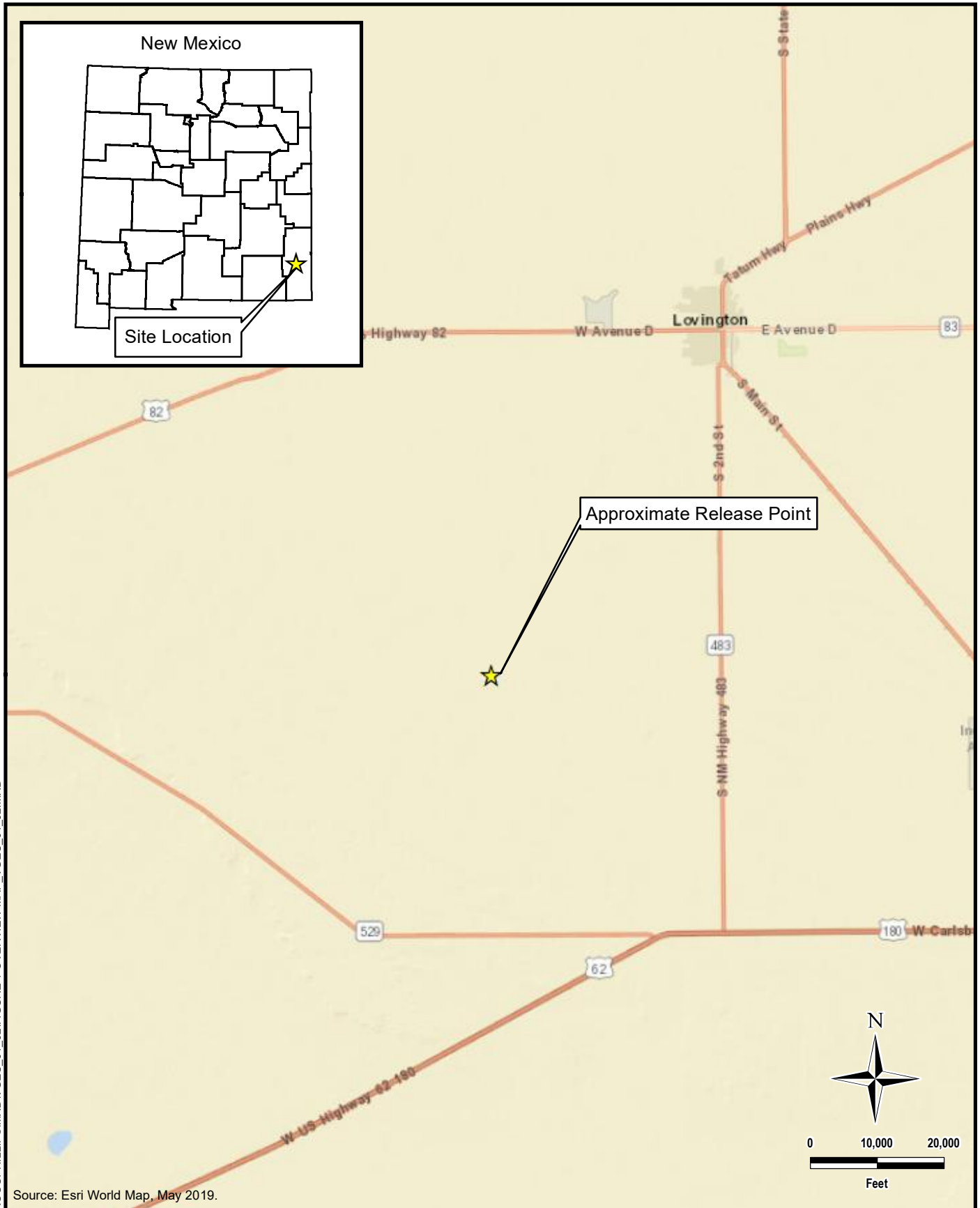
Tables:

- Table 1 – Summary of Analytical Results – Initial Soil Assessment
- Table 2 – Summary of Analytical Results – Additional Soil Assessment
- Table 3 – Summary of Analytical Results – EVGSAU Satellite 1 / 2 Trunkline Release – Soil Remediation
- Table 4 – Summary of Analytical Results – Confirmation Sampling

Appendices:

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

FIGURES



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\GVEU_01_02\FIGURE 1 OVERVIEW MAP_VGEU_01_02.MXD

Source: Esri World Map, May 2019.



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CONOCOPHILLIPS

INCIDENT ID NRM1930958355/IRP-5782
(32.803350°, -103.462965°)
LEA COUNTY, NEW MEXICO

**VGEU 01-02 FLOWLINE RELEASE
OVERVIEW MAP**

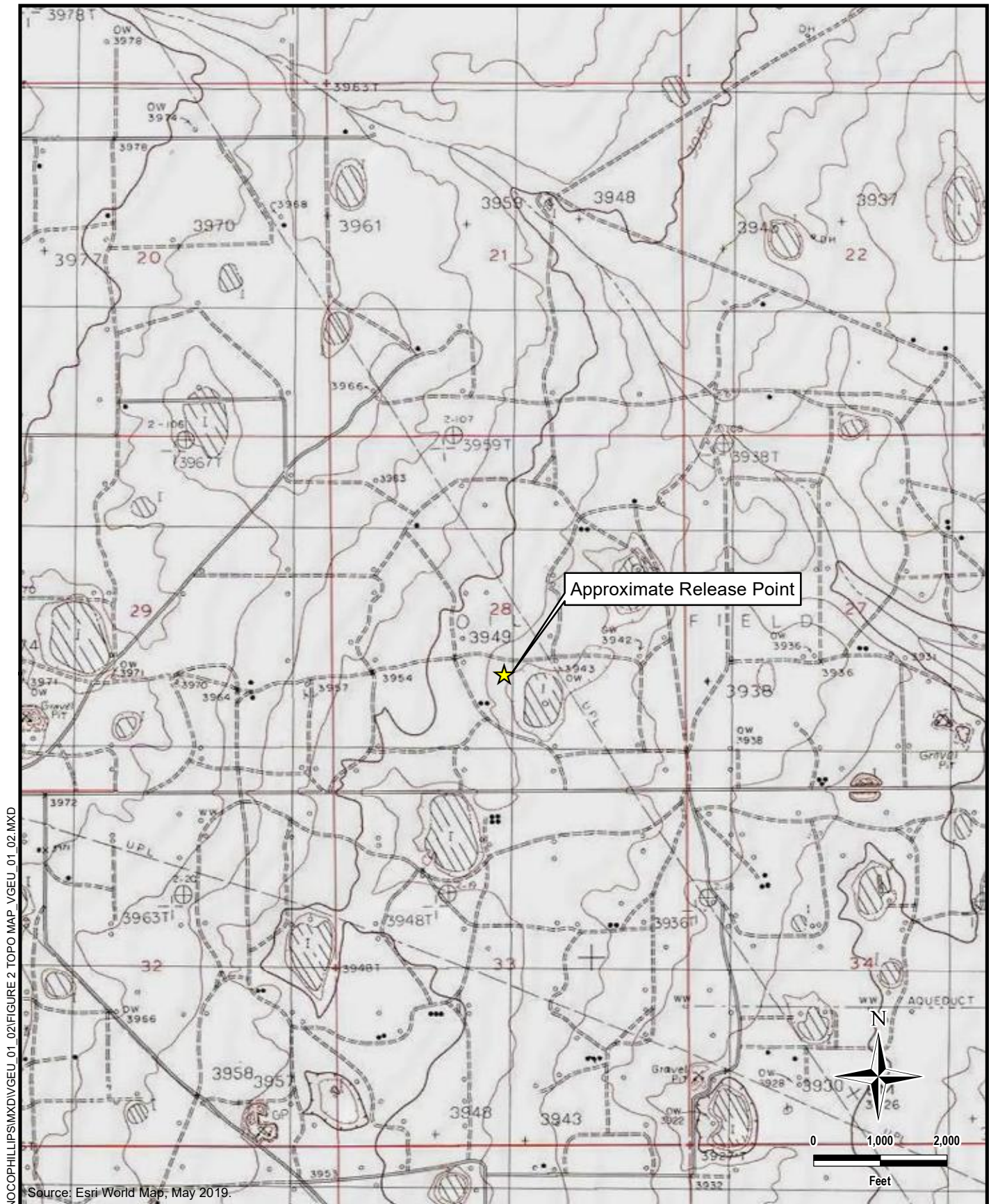
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DATE: JANUARY 29, 2021

DESIGNED BY: AAM

Figure No.

1



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CONOCOPHILLIPS

 INCIDENT ID NRM1930958355/IRP-5782
 (32.803350°, -103.462965°)
 LEA COUNTY, NEW MEXICO

**VGEU 01-02 FLOWLINE RELEASE
 TOPOGRAPHIC MAP**

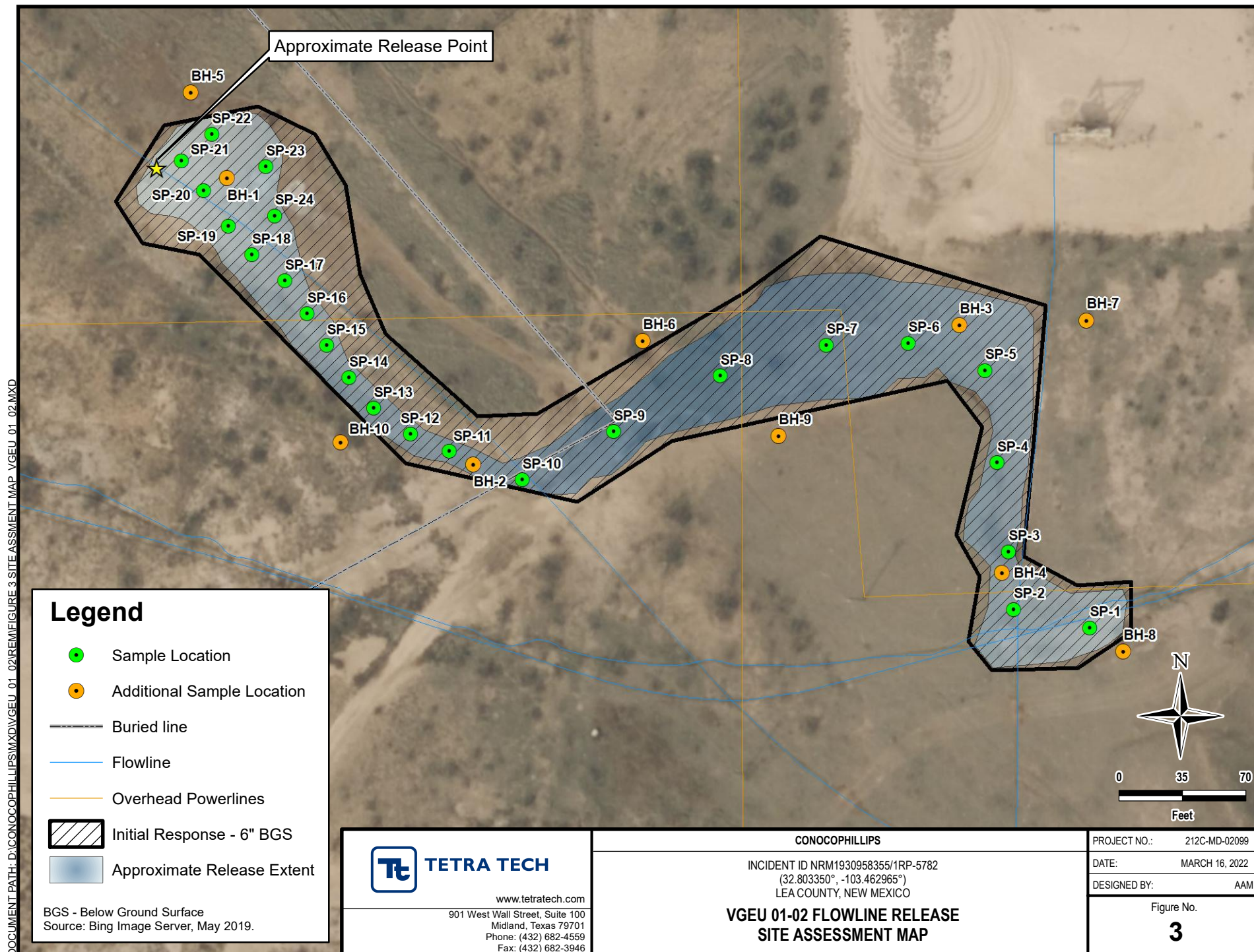
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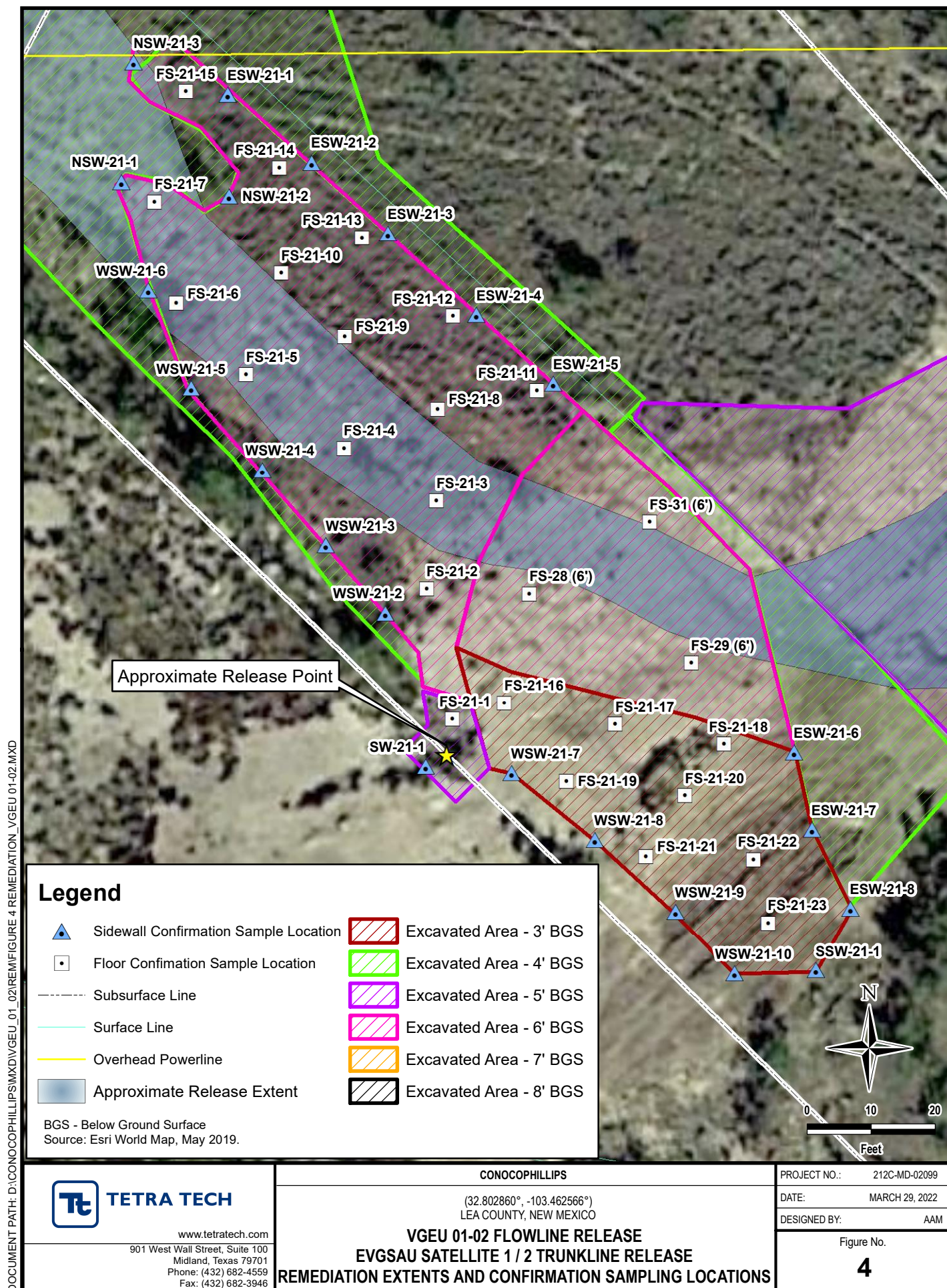
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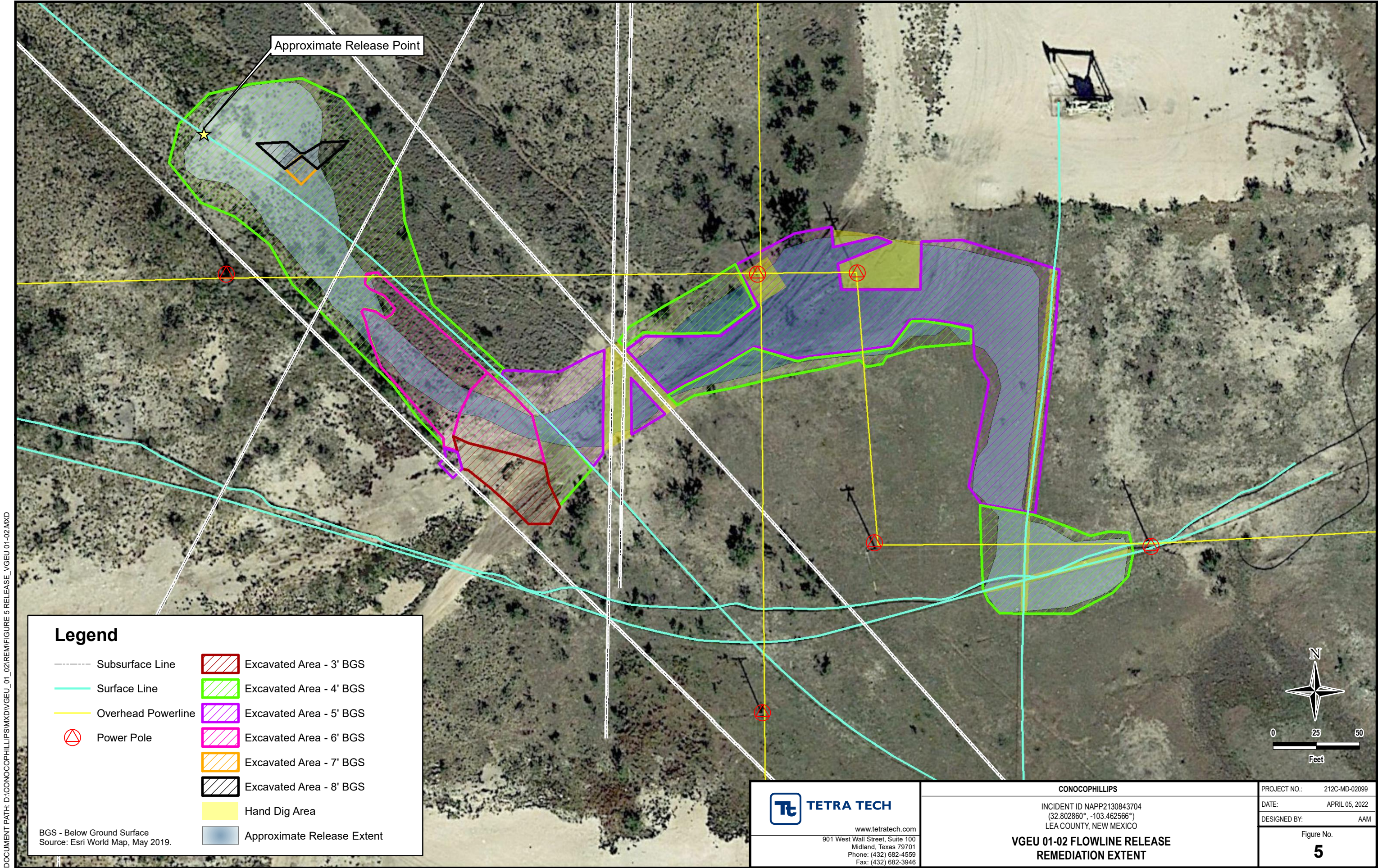
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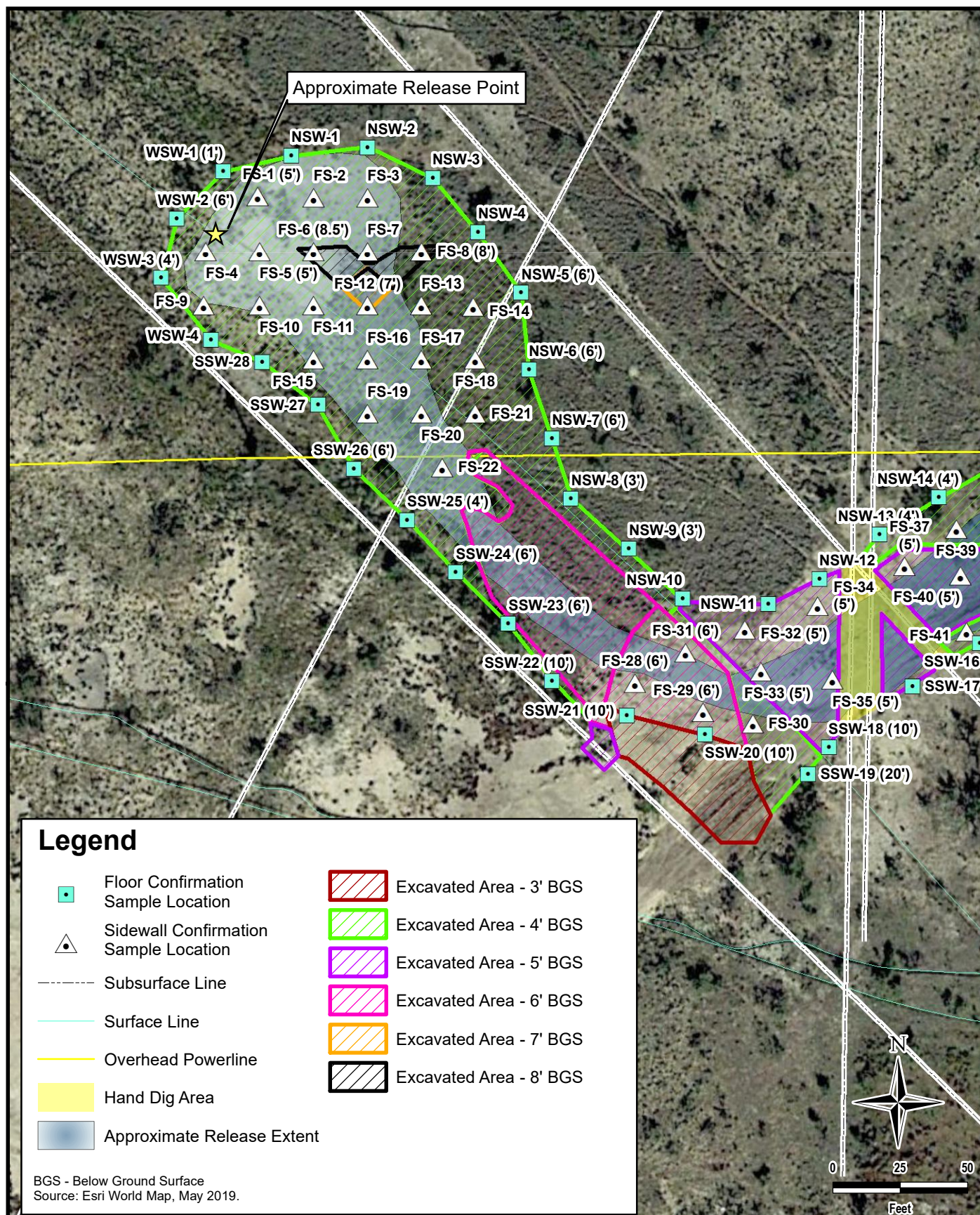
Figure No.

2









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CONOCOPHILLIPS

INCIDENT ID NAPP2130843704
(32.802860°, -103.462566°)
LEA COUNTY, NEW MEXICO

**VGEU 01-02 FLOWLINE RELEASE
REMEDIATION EXTENT AND CONFIRMATION SAMPLING LOCATIONS**

PROJECT NO.: 212C-MD-02099

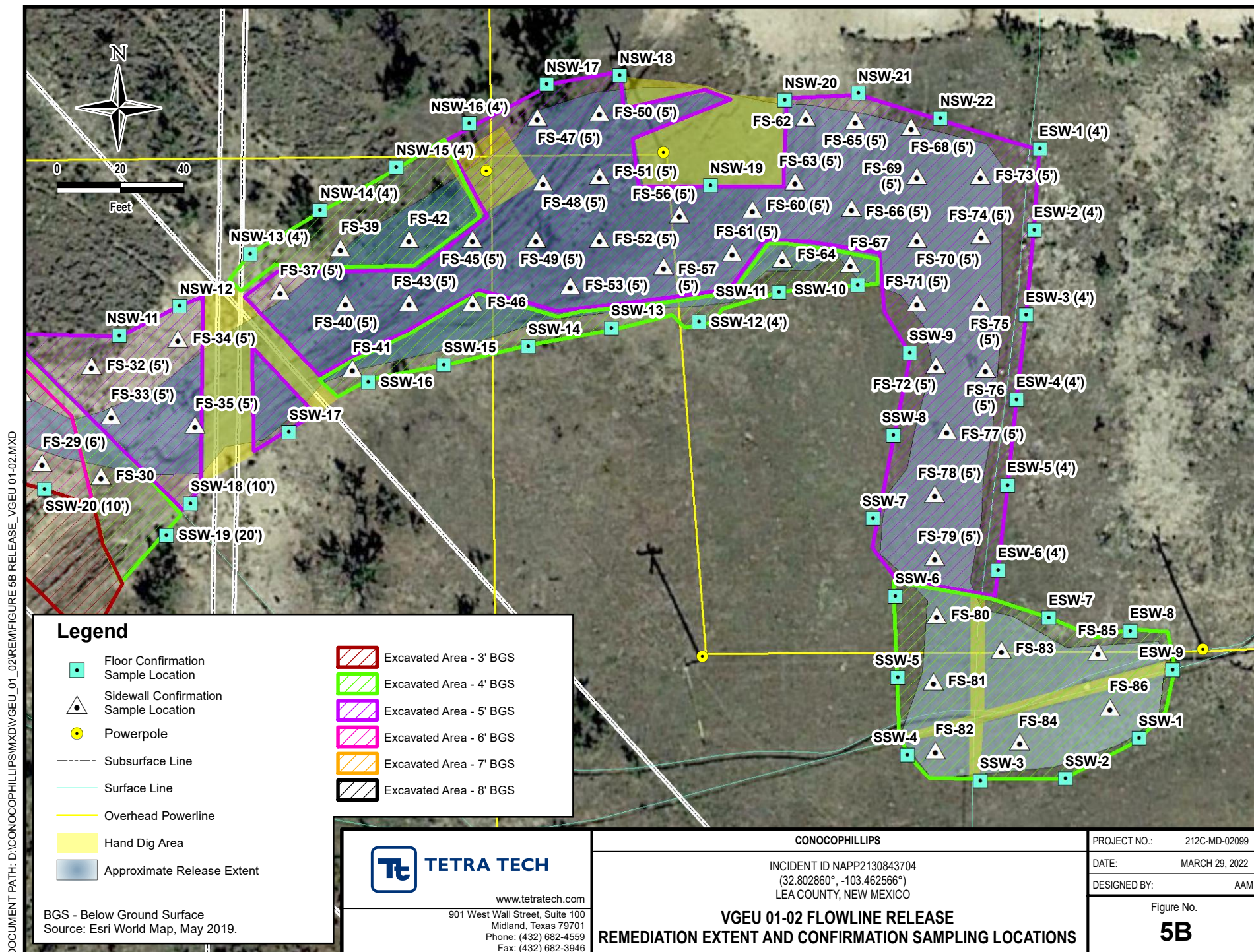
DATE: APRIL 05, 2022

DESIGNED BY: AAM

Figure No.

5A

DOCUMENT PATH: D:\CONOCOPHILLIPS\MD\DIVGEU_01_02\REMFIGURE 5A RELEASE_VGEU 01-02.MXD



TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
INITIAL SOIL ASSESSMENT - 1RP-5782
CONOCOPHILLIPS
VGEU 01-02 FLOWLINE RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Interval	Chloride ¹	
		ft bgs	mg/kg	Q
SP-1	11/04/19	0.5	8720	
SP-2	11/04/19	0.5	8800	
SP-3	11/04/19	0.5	7330	
SP-4	11/04/19	0.5	10000	
SP-5	11/04/19	0.5	32800	
SP-6	11/04/19	0.5	16200	
SP-7	11/04/19	0.5	640	
SP-8	11/04/19	0.5	10200	
SP-9	11/04/19	0.5	11600	
SP-10	11/04/19	0.5	4640	
SP-11	11/01/19	0.5	1600	
SP-12	11/01/19	0.5	4000	
SP-13	11/01/19	0.5	12100	
SP-14	11/01/19	0.5	30800	
SP-15	11/01/19	0.5	13400	
SP-16	11/01/19	0.5	25600	
SP-17	11/01/19	0.5	21000	
SP-18	11/01/19	0.5	20200	
SP-19	11/01/19	0.5	23000	
SP-20	11/01/19	0.5	18800	QM-07
SP-21	11/01/19	0.5	6240	
SP-22	11/01/19	0.5	21400	
SP-23	11/01/19	0.5	18800	
SP-24	11/01/19	0.5	15400	

NOTES:

ft Feet

1 Method SM4500CI-B

bgs Below ground surface

mg/kg Milligrams per kilogram

Q Qualifier

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

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
ADDITIONAL SOIL ASSESSMENT - 1RP-5782
CONOCOPHILLIPS
VGEU 01-02 FLOWLINE RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chloride ¹		BTEX ²								TPH ³							
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX	GRO ⁴		DRO		ORO		Total TPH (GRO+DRO+ORO)
							mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q		mg/kg	Q	mg/kg	Q	mg/kg	Q	
		ft. bgs	ppm		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q
BH-1	3/25/2020	0-1	11730	1.1	12200		< 0.00112		< 0.00562		< 0.00281		< 0.00731		ND	< 0.112		8.77		15.3		24.1
		2-3	6860	2.6	6670		< 0.00108		< 0.00538		< 0.00269		< 0.00699		ND	< 0.108		1.92	J	1.29	J	3.21
		3-4	5410	3.8	7120		< 0.00108		< 0.00541		< 0.00270		< 0.00703		ND	< 0.108		< 4.33		1.16	J	1.16
		4-5	10530	1.2	-		-		-		-		-		-	-		-		-		-
		6-7	-	1.4	-		-		-		-		-		-	-		-		-		-
		9-10	-	1.6	-		-		-		-		-		-	-		-		-		-
		14-15	6620	1.8	-		-		-		-		-		-	-		-		-		-
		19-20	5770	2.1	-		-		-		-		-		-	-		-		-		-
		24-25	4310	2.3	-		-		-		-		-		-	-		-		-		-
		29-30	3670	1.7	1220		< 0.00108		< 0.00542		< 0.00271		< 0.00705		ND	< 0.108		3.50	J	1.96	J	5.46
39-40	718	1.1	-		-		-		-		-		-	-		-		-		-		
44-45	321	1.2	110		< 0.00105		< 0.00523		< 0.00261		< 0.00680		ND	< 0.105		< 4.18		0.306	J	0.306		
BH-2	3/25/2020	0-1	1420	2.3	1580		< 0.00111		< 0.00557		< 0.00279		< 0.00725		ND	< 0.111		998		1830		2828
		2-3	1380	4.5	1600		0.00205	J	0.00842	J	0.00535	J	< 0.0296		0.01582	< 0.114		850		1510		2360
		3-4	1170	6.1	1890		< 0.00114		< 0.00570		< 0.00285		< 0.00741		ND	< 0.114		115		187		302
		4-5	1210	4.1	-		-		-		-		-		-	-		-		-		-
		19-20	296	1.1	322		< 0.00105		< 0.00524		< 0.00262		< 0.00681		ND	< 0.105		3.99	J	1.59	J	5.58
BH-3	3/25/2020	0-1	>15000	8.2	22500		< 0.00117		< 0.00583		0.000641	J	< 0.00758		0.000641	0.0266	J	343		242		585
		2-3	11340	3.2	19900		< 0.00117		< 0.00587		< 0.00293		< 0.00763		ND	< 0.117		201		124		325
		3-4	1710	1.6	14100		< 0.00123		< 0.00613		< 0.00307		< 0.00797		ND	< 0.123		283		184		467
		4-5	1210	1.6	-		-		-		-		-		-	-		-		-		-
		6-7	727	1.5	-		-		-		-		-		-	-		-		-		-
		19-20	220	1.8	108		< 0.00104		< 0.00522		< 0.00261		< 0.00679		ND	< 0.104		< 4.18		< 4.18		ND
BH-4	3/25/2020	0-1	2950	1.9	2920		< 0.00113		< 0.00565		< 0.00282		< 0.00734		ND	< 0.113		5.88		5.32		11.2
		2-3	2460	2.1	2730		< 0.00112		< 0.00558		< 0.00279		< 0.00726		ND	< 0.112		3.81	J	4.48		8.29
		3-4	1560	1.1	1730		< 0.00111		< 0.00557		< 0.00279		< 0.00725		ND	0.0346	B J	8.09		6.13		14.3
		4-5	1210	1.1	-		-		-		-		-		-	-		-		-		-
		6-7	489	1.2	23.8		< 0.00105		< 0.00523		< 0.00262		< 0.00680		ND	0.0239	B J	7.23		4.09	J	11.3
BH-5	3/25/2020	0-1	98.1	1.2	17.1	B	< 0.00123		< 0.00613		< 0.00306		< 0.00797		ND	0.0501	B J	13.2		19.9		33.2
		2-3	106	0.9	25.6	B	< 0.00123		< 0.00614		< 0.00307		< 0.00798		ND	0.0647	B J	8.00	J3	17.8		25.9
		3-4	121	0.9	25.7	B	< 0.00125		< 0.00623		< 0.00312		< 0.00810		ND	0.0437	B J	4.61	J	8.65		13.3
		4-5	138	0.8	30.2		< 0.00107		< 0.00536		< 0.00268		< 0.00696		ND	0.104	B J	2.52	J	4.07	J	6.69
BH-6	3/25/2020	0-1	177	0.4	37.5		< 0.00107		< 0.00536		< 0.00268		< 0.00697		ND	0.0404	B J	5.66		6.94		12.6
		2-3	184	0.3	10.3	B J	< 0.00108		< 0.00540		< 0.00270		< 0.00703		ND	0.0265	B J	4.77		4.43		9.23
		3-4	124	0.9	7.52	B J	< 0.00107		< 0.00533		< 0.00266		< 0.00693		ND	< 0.107		3.15	J	2.16	B J	5.31
		4-5	117	1.1	-		-		-		-		-		-	-		-		-		-

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
ADDITIONAL SOIL ASSESSMENT - 1RP-5782
CONOCOPHILLIPS
VGEU 01-02 FLOWLINE RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chloride ¹		BTEX ²										TPH ³							
							Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO ⁴		DRO		ORO		Total TPH (GRO+DRO+ORO)	
			Chloride	PID													C ₃ - C ₁₀		C ₁₀ - C ₂₈		C ₂₈ - C ₄₀			
		ft. bgs	ppm		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg		
BH-7	3/25/2020	0-1	206	1.2	62.6		< 0.00114		< 0.00568		< 0.00284		< 0.00739		ND	0.246	B	18.1		38.5		56.8		
		2-3	193	1.4	45.4		< 0.00114		< 0.00571		< 0.00286		< 0.00743		ND	0.0599	B J	15.0		24.9		40.0		
		3-4	184	1.2	152		< 0.00114		< 0.00568		< 0.00284		< 0.00738		ND	0.0369	B J	6.35		12.5		18.9		
		4-5	208	1.3	260		< 0.00114		< 0.00571		< 0.00286		< 0.00742		ND	0.0248	J	2.52	J	4.51	J	7.05		
BH-8	3/25/2020	0-1	270	1.1	114		< 0.00115		< 0.00576		< 0.00288		< 0.00749		ND	0.0316	B J	5.08		5.50		10.6		
		2-3	262	0.9	295		< 0.00115		< 0.00573		< 0.00287		< 0.00745		ND	0.0315	B J	6.67		7.58		14.3		
		3-4	257	1.0	69.9		< 0.00116		< 0.00579		< 0.00289		< 0.00752		ND	0.0326	B J	15.2		27.9		43.1		
		4-5	156	1.3	25.2		< 0.00109		< 0.00546		< 0.00273		< 0.00709		ND	0.0679	B J	3.55	J	6.84		10.5		
BH-9	3/25/2020	0-1	110	1.1	9.92	B J	< 0.00111		< 0.00556		< 0.00278		< 0.00723		ND	0.0534	B J	15.5		30.8		46.4		
		2-3	146	1.1	7.66	B J	< 0.00105		< 0.00523		< 0.00261		< 0.00679		ND	0.0265	B J	4.21		6.41		10.6		
		3-4	137	0.9	7.52	B J	< 0.00104		< 0.00522		< 0.00261		< 0.00679		ND	0.0306	B J	3.83	J	3.55	J	7.41		
		4-5	123	0.8	7.88	B J	< 0.00122		< 0.00612		< 0.00306		< 0.00795		ND	< 0.122		3.54	J	0.688	J	4.23		
BH-10	3/25/2020	0-1	320	1.1	39.6		< 0.00107		< 0.00535		< 0.00267		< 0.00695		ND	0.0461	J	7.41		4.16	J	11.6		
		2-3	350	1.7	7.20	B J	< 0.00108		< 0.00541		< 0.00271		< 0.00704		ND	0.0258	J	3.84	J	1.35	J	5.22		

NOTES:

ft. Feet

bgs Below ground surface

ppm Parts per million

mg/kg Milligrams per kilogram

HOLD Hold on sample analysis

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

ORO Oil range organics

ND Non-detect

Bold and italicized values indicate exceedance of proposed RRLs

1 EPA Method 300.0

2 EPA Method 8260B

3 EPA Method 8015

4 EPA Method 8015D/GRO

QUALIFIERS:

B The same analyte is found in the associated blank.

J The identification of the analyte is acceptable; the reported value is an estimate.

J3 The associated batch QC was outside the established quality control range for precision.

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
SOIL REMEDIATION - NAPP2130843704
CONOCOPHILLIPS
EVGSAU SATELLITE 1/2 TRUNKLINE RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results	Chloride ¹		BTEX ²										TPH ³					
						Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO	
			Chloride	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ -C ₁₀		> C ₁₀ -C ₂₈		> C ₂₈ -C ₃₆	
																mg/kg	Q	mg/kg	Q	mg/kg	Q
FS-21-1	11/10/2021	3		7,730		3.67		30.9		34.8		55.1		124		876		4,650		887	
FS-21-1 (5)	11/18/2021	5				416		< 0.050		< 0.050		< 0.150		< 0.300		< 10.1		295		214	
FS-21-2	12/2/2021	6	621	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
FS-21-3	12/2/2021	6	754	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
FS-21-4	12/2/2021	6	571	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
FS-21-5	12/2/2021	6	523	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
FS-21-6	12/2/2021	6	499	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
FS-21-7	12/2/2021	6	851	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
FS-21-8	12/2/2021	6	771	192		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
FS-21-9	12/2/2021	6	765	128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
FS-21-10	12/2/2021	6	610	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
FS-21-11	12/2/2021	6	820	128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
FS-21-12	12/2/2021	6	702	128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
FS-21-13	12/2/2021	6	778	112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
FS-21-14	12/2/2021	6	645	128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
FS-21-15	12/2/2021	6	582	160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
FS-21-16	12/2/2021	3	325	192		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
FS-21-17	12/2/2021	3	411	224		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
FS-21-18	12/2/2021	3	299	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
FS-21-19	12/2/2021	3	502	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
FS-21-20	12/2/2021	3	516	112	QR-03	< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
FS-21-21	12/2/2021	3	488	176		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
FS-21-22	12/2/2021	3	391	160		< 0.050	QR-03	< 0.050	QR-03	< 0.050	QR-03	< 0.150	QR-03	< 0.300		< 10.0		< 10.0		< 10.0	
FS-21-23	12/2/2021	3	362	176		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
NSW-21-1	12/2/2021	-	176	208		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
NSW-21-2	12/2/2021	-	225	192		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
NSW-21-3	12/2/2021	-	340	160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
ESW-21-1	12/2/2021	-	411	160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
ESW-21-2	12/2/2021	-	478	112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
ESW-21-3	12/2/2021	-	199	176		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
ESW-21-4	12/2/2021	-	264	192		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
ESW-21-5	12/2/2021	-	431	160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
ESW-21-6	12/2/2021	-	333	160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
ESW-21-7	12/2/2021	-	326	160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
ESW-21-8	12/2/2021	-	400	192		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
SSW-21-1	12/2/2021	-	502	160.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
SW-21-1	11/10/2021	-		640		< 0.050		0.069		0.050		< 0.150		< 0.300		< 10.0		1,040		701	
SW-21-1 (2)*	11/18/2021	-		352		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		312		222	
SW-21-1 (4)*	11/22/2021	-		48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		25.8		21.8	
WSW-21-2	12/2/2021	-	358	160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
WSW-21-3	12/2/2021	-	299	144		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
WSW-21-4	12/2/2021	-	286	112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
WSW-21-5	12/2/2021	-	330	48		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
WSW-21-6	12/2/2021	-	358	176		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
WSW-21-7	12/2/2021	-	349	144		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
WSW-21-8	12/2/2021	-	322	176		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
WSW-21-9	12/2/2021	-	491	160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	
WSW-21-10	12/2/2021	-	480	192		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	

NOTES:

ft. Feet

bgs Below ground surface

ppm Parts per million

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 SM 4500-CI-8

2 EPA Method 8021B

3 EPA Method 8015

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

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

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

*

QUALIFIERS:

QR-03

TABLE 4
SUMMARY OF ANALYTICAL RESULTS
CONFIRMATION SAMPLING - NRM1930958355
CONOCOPHILLIPS
VGEU (28)01-02 FLOWLINE RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chloride ^{1,2}		BTEX ^{3,4}										TPH ^{5,6}						
			Chloride	PID			Benzene		Ethylbenzene		Toluene		Total Xylenes		Total BTEX		GRO C ₆ - C ₁₀		DRO > C ₁₀ - C ₂₈		ORO > C ₂₈ - C ₃₆		Total TPH
					ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
FS-1	10/7/2021	4	706	30.3	642		< 0.0053		< 0.0053		< 0.0053		< 0.0158		-		< 10.5		1,120		1,070	M1	2,190
FS-1 (5')	10/18/2021	5			6,230		< 0.0057		< 0.0057		0.0084		< 0.0170		0.0084		< 11.3		12.5		14.2		26.7
FS-2	10/7/2021	4	3,140	41.6	3,420		< 0.0062		< 0.0062		< 0.0062		< 0.0185		-		< 12.3		< 10.6		< 10.6		-
FS-3	10/7/2021	4	5,760	38.2	7,090		< 0.0740		< 0.0740		< 0.0740		< 0.222		-		< 11.0		< 10.9		< 10.9		-
FS-4	10/7/2021	4	1,460	28.0	1,880		< 0.0050		< 0.0050		< 0.0050		< 0.0151		-		< 10.1		< 10.3		< 10.3		-
FS-5	10/7/2021	4	8,340	30.1	14,200		< 0.0061		< 0.0061		< 0.0061		< 0.0183		-		< 12.2		38.7		55.8		94.5
FS-5 (5')	10/18/2021	5	-	-	9,810		< 0.0055		< 0.0055		< 0.0055		< 0.0166		-		< 11.1		18.3		< 10		18.3
FS-6	10/7/2021	4	8,430	23.2	12,900		< 0.0063		< 0.0063		< 0.0063		< 0.0188		-		< 12.5		< 11.1		< 11.1		-
FS-6 (5')	10/18/2021	5	-	-	13,200		< 0.0062		< 0.0062		< 0.0062		< 0.0186		-		< 12.4		< 10.9		< 10.9		-
FS-6 (6')	1/12/2022	6	-	-	12,000		< 0.050		< 0.050		< 0.050		< 0.150		-		< 10.0		< 10.0		< 10.0		-
FS-6 (7')	1/13/2022	7	-	-	13,200		< 0.050		< 0.050		< 0.050		< 0.150		-		< 10.0		< 10.0		< 10.0		-
FS-6 (8')	1/18/2022	8			10,900		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		97.2		< 10.0		97.2
FS-6 (8.5')	1/19/2022	8.5			7,280		< 0.050		< 0.050		< 0.050		< 0.150		-		< 10.0		< 10.0		< 10.0		-
FS-7	10/7/2021	4	4,140	17.7	1,770		< 0.0051		< 0.0051		< 0.0051		< 0.0152		-		< 10.1		< 10.6		< 10.6		-
FS-8	10/15/2021	4	-	-	10,300		< 0.0056		< 0.0056		< 0.0056		< 0.0167		-		< 11.1		< 10.9		< 10.9		-
FS-8 (6')	1/12/2022	6	-	-	13,400		< 0.050		< 0.050		< 0.050		< 0.150		-		< 10.0		< 10.0		< 10.0		-
FS-8 (7')	1/13/2022	7	-	-	11,400		< 0.050		< 0.050		< 0.050		< 0.150		-		< 10.0		< 10.0		< 10.0		-
FS-8 (8')	1/18/2022	8			6,640		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
FS-9	10/11/2021	4	720	5.0	683		< 0.0053		< 0.0053		< 0.0053		< 0.0159		-		< 10.6		< 10.0		< 10.0		-
FS-10	10/11/2021	4	7,770	3.2	9,720		< 0.0053		< 0.0053		< 0.0053		< 0.0159		-		< 10.6		< 10.6		< 10.6		-
FS-11	10/11/2021	4	7,520	3.4	8,160		< 0.0053		< 0.0053		< 0.0053		< 0.0159		-		< 10.6		< 10.6		< 10.6		-
FS-12	10/15/2021	4	5,370	4.5	15,600		< 0.0052		< 0.0052		< 0.0052		< 0.0156		-		< 10.4		13.4		17.1		30.5
FS-12 (6')	1/12/2022	6	-	-	15,600		< 0.050		< 0.050		< 0.050		< 0.150		-		< 10.0		< 10.0		< 10.0		-
FS-12 (7')	1/13/2022	7	-	-	10,000		< 0.050		< 0.050		< 0.050		< 0.150		-		< 10.0		< 10.0		< 10.0		-
FS-13	10/15/2021	4	7,380	4.3	9,760	M1	< 0.0059		< 0.0059		< 0.0059		< 0.0177		-		< 11.8		< 10.6		< 10.6		-
FS-14	10/18/2021	4	2,120	3.1	2,580	M1	< 0.0059		< 0.0059		0.0080		< 0.0177		0.0080		< 11.8		< 30.7		< 30.7		-
FS-15	10/18/2021	4	3,000	2.8	5,520		< 0.0057		< 0.0057		0.0076		< 0.0177		0.0076		< 11.5		< 10.6		< 10.6		-
FS-16	10/18/2021	4	5,550	4.2	9,320		< 0.0059		< 0.0059		0.0080		< 0.0177		0.0080		< 11.8		< 10.3		< 10.3		-
FS-17	10/18/2021	4	3,460	3.1	6,290		< 0.0058		< 0.0058		0.0075		< 0.0173		0.0075		< 11.6		< 10.2		< 10.2		-
FS-18	10/18/2021	4	2,700	4.9	4,430		< 0.0060		< 0.0060		0.0094		< 0.0181		0.0094		< 12.1		< 10.9		< 10.9		-
FS-19	10/18/2021	4	1,680	4.1	1,670		< 0.0055		< 0.0055		0.0076		< 0.0164		0.0076		< 11.0		< 10.2		< 10.2		-
FS-20	10/18/2021	4	3,260	3.6	4,140		< 0.0056		< 0.0056		0.0081		< 0.0167		0.0081		< 11.1		< 10.3		< 10.3		-
FS-21	10/18/2021	4	4,030	7.1	5,650		< 0.0057		< 0.0057		0.0081		< 0.0172		0.0081		< 11.5		< 10.4		< 10.4		-
FS-22	10/18/2021	4	4,050	2.00	5,790		< 0.0058		< 0.0058		0.0087		< 0.0175		0.0087		< 11.6		< 10.4		< 10.4		-
FS-28	12/22/2021	4	-	-	3,240	QM-07	< 0.050	QM-07, CR-02	< 0.050	QR-03	< 0.050	QR-03	< 0.150	QR-03	< 0.300		< 10.0		< 10.0		< 10.0		-
FS-28 (6')	1/12/2022	6	-	-	224		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
FS-29	12/22/2021	4	-	-	3,600		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		75.9		< 10.0		75.9
FS-29 (6')	1/12/2022	6	-	-	304		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
FS-30	12/22/2021	4	-	-	912		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
FS-31	12/22/2021	4	-	-	3,760		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
FS-31 (6')	1/12/2022	6	-	-	768		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
FS-32 (5')	1/28/2022	5			320		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
FS-33 (5')	1/28/2022	5			288		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
FS-34 (5')	1/28/2022	5			320		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
FS-35 (5')	1/28/2022	5			272		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
FS-37	12/22/2021	4	-	-	3,240		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
FS-37 (5')	1/24/2022	5			32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
FS-39	12/22/2021	4			384		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
FS-40	12/22/2021	4	-	-	1,620		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
FS-40 (5')	1/24/2022	5			48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
FS-41	12/22/2021	4			64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
FS-42	12/22/2021	4			32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
FS-43	12/22/2021	4			1,820		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
FS-43 (5')	1/24/2022	5			64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
FS-45	12/22/2021																						

TABLE 4
SUMMARY OF ANALYTICAL RESULTS
CONFIRMATION SAMPLING - NRM1930958355
CONOCOPHILLIPS
VGEU (28)01-02 FLOWLINE RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chloride ^{1,2}		BTEX ^{3,4}								TPH ^{5,6}							
			Chloride	PID			Benzene		Ethylbenzene		Toluene		Total Xylenes		Total BTEX		GRO C ₆ - C ₁₀		DRO > C ₁₀ - C ₂₈		ORO > C ₂₈ - C ₃₆	
		ft. bgs	ppm		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
FS-49	12/16/2021	4			1,800		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-49 (5')	1/25/2022	5			320		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-50	12/16/2021	4			752		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-50 (5')	1/25/2022	5			224		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-51	12/16/2021	4			4,560		< 0.050	QM-07	< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-51 (5')	1/25/2022	5			272		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-52	12/16/2021	4			5,440		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-52 (5')	1/25/2022	5			240		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-53	12/16/2021	4			5,280		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-53 (5')	1/25/2022	5			96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-56	12/16/2021	4			944		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-56 (5')	1/25/2022	5			208		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-57	12/16/2021	4			5,120		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-57 (5')	1/31/2022	5			208		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	10.5		< 10.0		10.5
FS-60	12/16/2021	4			928		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-60 (5')	1/25/2022	5			416		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-61	12/16/2021	4			3,680		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-61 (5')	1/31/2022	5			80		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-62	12/16/2021	4			416		< 0.050		< 0.050		0.073		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-63	12/16/2021	4			4,160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-63 (5')	1/31/2022	5			240		< 0.050		< 0.050		0.073		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-64	12/16/2021	4			48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-65	12/16/2021	4			800		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-65 (5')	1/25/2022	5			400		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-66	12/16/2021	4			5,040		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-66 (5')	1/25/2022	5			240		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-67	12/16/2021	4			256		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-68	12/16/2021	4			3,520		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-68 (5')	1/31/2022	5			224		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-69	12/16/2021	4			9,200		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-69 (5')	1/31/2022	5			80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	18.0		< 10.0		18.0
FS-70	12/16/2021	4			3,800		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-70 (5')	1/25/2022	5			144		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-71	12/16/2021	4			816		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-71 (5')	1/19/2022	5			122		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-72	12/16/2021	4			4,480		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-72 (5')	1/19/2022	5			432		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-73	12/16/2021	4			4,240		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-73 (5')	1/28/2022	5			128						< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-74	12/16/2021	4			5,760		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-74 (5')	1/31/2022	5			176		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	20.2		< 10.0		20.2
FS-75	12/16/2021	4			4,560		< 0.050		< 0.050		0.051		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-75 (5')	1/19/2022	5			96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-76	12/16/2021	4			2,720		< 0.050		< 0.050		0.100		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-76 (5')	1/19/2022	5			48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-77	12/16/2021	4			864		< 0.050		< 0.050		0.055		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-77 (5')	1/24/2022	5			48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-78	12/16/2021	4			1,920		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-78 (5')	1/24/2022	5			48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-79	12/16/2021	4			2,000		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-79 (5')	1/19/2022	5			400		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-80	1/18/2022	4			304		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-81	1/18/2022	4			320		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-82	1/20/2022	4			320		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-83	1/20/2022	4			304		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-84	1/18/2022	4			336		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0	-
FS-85	1/18/2022																					

TABLE 4
SUMMARY OF ANALYTICAL RESULTS
CONFIRMATION SAMPLING - NRM1930958355
CONOCOPHILLIPS
VGEU (28)01-02 FLOWLINE RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chloride ^{1,2}		BTEX ^{3,4}										TPH ^{5,6}					
			Chloride	PID			Benzene		Ethylbenzene		Toluene		Total Xylenes		Total BTEX		GRO		DRO		ORO	
			ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ -C ₁₀	Q	> C ₁₀ -C ₂₈	Q	> C ₂₈ -C ₃₆	Q
NSW-4	10/4/2021	-	176	5.0	212		< 0.0055		< 0.0055		< 0.0055		< 0.0164		-		< 10.9	14.6	28.5	43.1		
NSW-5	10/4/2021	-	655	8.9	945		< 0.0059		< 0.0059		< 0.0059		< 0.0177		-		< 11.8	28.1	42.0	70.1		
NSW-5 (6)*	10/11/2021	-	317	2.9	200		< 0.0057		< 0.0057		< 0.0057		< 0.0170		-		< 11.4	< 10.3	16.2	16.2		
NSW-6	10/4/2021	-	434	3.0	740		< 0.0056		< 0.0056		< 0.0056		< 0.0167		-		< 11.1	25.1	48.6	73.7		
NSW-6 (6)*	10/11/2021	-	552	2.4	517		< 0.0057		< 0.0057		< 0.0057		< 0.0171		-		< 11.4	< 15.2	17.1	17.1		
NSW-7	10/4/2021	-	2,180	4.6	2,370		< 0.0059		< 0.0059		< 0.0059		< 0.0176		-		< 11.8	27.5	52.6	80.1		
NSW-7 (6)*	10/6/2021	-	430	0.1	342		< 0.0055		< 0.0055		< 0.0055		< 0.0165		-		< 11.0	22.8	45.9	68.7		
NSW-8	10/13/2021	-	585	5.9	1,120		< 0.0055		< 0.0055		0.0088		0.0279		0.0367		< 11.1	< 59.6	< 59.6	-		
NSW-8 (3)*	10/20/2021	-	331	5.9	237		< 0.0050		< 0.0050		< 0.0050		< 0.0151		-		< 10.1	11.1	14.1	25.2		
NSW-9	10/13/2021	-	2,240	0.1	927		< 0.0052		< 0.0052		< 0.0052		< 0.0156		-		< 10.4	11.4	12.2	23.6		
NSW-9 (3)*	10/14/2021	-	250	0.6	136		< 0.0050		< 0.0050		< 0.0050		< 0.0151		-		< 10.1	< 10.4	17.6	17.6		
NSW-10	10/13/2021	-	210	0.2	185		< 0.0052		< 0.0052		< 0.0052		< 0.0155		-		< 10.3	10.5	16.2	26.7		
NSW-11	10/13/2021	-	147	0.1	154		< 0.0053		< 0.0053		< 0.0053		< 0.0158		-		< 10.6	< 10.0	13.0	13.0		
NSW-12	10/21/2021	-	499	21.6	267		< 0.0050		< 0.0050		0.0118		< 0.0150		0.0118		< 10.0	33.7	49.5	83.2		
NSW-13	10/21/2021	-	518	25.8	< 103		< 0.0051		< 0.0051		0.0131		< 0.0152		0.0131		< 10.1	57	90.8	148		
NSW-13 (4)*	12/29/2022	-			32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
NSW-14	10/21/2021	-	138	22.0	1,240		< 0.0056		< 0.0056		< 0.0301		< 0.0169		0.0301		< 11.2	13.9	26	39.9		
NSW-14 (4)*	12/29/2021	-			48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
NSW-15	10/21/2021	-	176	15.2	< 104		< 0.0050		< 0.0050		0.0064		< 0.0149		0.0064		< 9.9	68.2	116	184		
NSW-15 (4)*	12/29/2022	-			48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
NSW-16	10/21/2021	-	573	32.9	< 110		0.0057		< 0.0051		0.0356		0.0162		0.0575		< 10.3	45.3	61.8	107		
NSW-16 (4)*	12/29/2021	-			112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
NSW-17	10/21/2021	-	364	16.3	234		< 0.0054		< 0.0054		0.0610		< 0.0163		0.0610		< 10.9	30.1	46.7	76.8		
NSW-18	1/18/2022	-			224		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
NSW-19	1/18/2022	-			80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
NSW-20	1/18/2022	-			128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
NSW-21	1/18/2022	-			160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
NSW-22	1/20/2022	-			128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	32.1	< 10.0	32.1		
ESW-1	12/16/2021	-	-	-	4,800		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
ESW-1 (4)*	12/29/2022	-			< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
ESW-2	12/16/2021	-	-	-	5,760		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
ESW-2 (4)*	12/29/2022	-			16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
ESW-3	12/16/2021	-	-	-	4,960		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
ESW-3 (4)*	12/29/2022	-			< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
ESW-4	12/16/2021	-	-	-	5,440		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
ESW-4 (4)*	12/29/2022	-			16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
ESW-5	12/16/2021	-	-	-	7,260		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
ESW-5 (4)*	12/29/2022	-			32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
ESW-6	12/16/2021	-	-	-	11,200	QM-07	< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
ESW-6 (4)*	12/29/2021	-			160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
ESW-7	1/18/2022	-			96.0		< 0.050	QR-03	< 0.050	QR-03	< 0.050	QR-03	< 0.150		< 0.300		< 10.0	31.0	< 10.0	31.0		
ESW-8	1/18/2022	-			112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
ESW-9	1/18/2022	-			80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
SSW-1	1/18/2022	-			192		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
SSW-2	1/18/2022	-			160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
SSW-3	1/18/2022	-			304		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
SSW-4	1/18/2022	-			80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
SSW-5	1/18/2022	-			336		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
SSW-6	12/16/2021	-	-	-	512		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
SSW-7	10/20/2021	-	328	24.7	217		< 0.0054		< 0.0054		0.0069		< 0.0162		0.0069		< 10.8	18.8	16.5	35.3		
SSW-8	10/20/2021	-	158	11.6	< 104		< 0.0054		< 0.0054		0.0120		< 0.0161		0.0120		< 10.8	< 10.1	< 10.1	-		
SSW-9	10/20/2021	-	24.1	23.5	< 109		< 0.0060		< 0.0060		0.0173		< 0.0179		0.0173		< 12.0	< 10.5	< 10.5	-		
SSW-10	10/20/2021	-	41.6	38.1	117		< 0.0051		< 0.0051		0.0138		< 0.0153		0.0138		< 10.2	< 10.1	< 10.1	-		
SSW-11	12/16/2021	-	-	-	64.0		< 0.050		< 0.050		< 0.050		< 0.300		< 0.300		< 10.0	< 10.0	< 10.0	-		
SSW-12	12/16/2021	-	-	-	5,600		< 0.050	QR-03	< 0.050	QR-03	< 0.050	QR-03	< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
SSW-12 (4*)	1/20/2022	-			128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	11.1	< 10.0	11.1		
SSW-13	12/16/2021	-	-	-	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0	-		
SSW-14	10/19/2021	-	76.4	16.9	109		< 0.0056		< 0.0056		< 0.0056		< 0.0167		-		< 11.1	11.1	14.6	25.7		
SSW-15	10/19/2021	-	293																			

TABLE 4
SUMMARY OF ANALYTICAL RESULTS
CONFIRMATION SAMPLING - NRM1930958355
CONOCOPHILLIPS
VGEU (28)01-02 FLOWLINE RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chloride ^{1,2}		BTX ^{3,4}								TPH ^{5,6}								
			Chloride	PID			Benzene		Ethylbenzene		Toluene		Total Xylenes		Total BTX		GRO		DRO		ORO		Total TPH
			ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
SSW-18	10/19/2021	-	236	20.0	308		< 0.0056		< 0.0056		< 0.0056		< 0.0167		-		< 11.1		267		305		572
SSW-18 (10')	1/28/2022	-			320		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SSW-19	10/19/2021	-	2,210	21.1	4,730		< 0.0063		< 0.0063		< 0.0063		< 0.0189		-		< 12.6		82.4		96.7		179
SSW-19 (20')	1/28/2022	-			320		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SSW-20	10/14/2021	-	1,640	2.4	2,510		< 0.0062		< 0.0062		< 0.0062		< 0.0186		-		< 12.4		18.0		24.4		42.4
SSW-20 (8')	10/15/2021	-	43.8	2.2	< 104		< 0.0053		< 0.0053		< 0.0053		< 0.0159		-		< 10.6		323		490		813
SSW-20 (10')*	10/20/2021	-	221	4.1	< 107		< 0.0054		< 0.0054		0.0107	M1	< 0.0163		0.0107		< 10.9		12.2		18.8		31.0
SSW-21	10/14/2021	-	2,490	9.0	2,800		< 0.0064		< 0.0064		< 0.0064		< 0.0193		-		< 12.8		13.5		15.1		28.6
SSW-21 (8')	10/15/2021	-	67.2	3.3	< 103		< 0.0055		< 0.0055		< 0.0055		< 0.0164		-		< 11.0		259		466		725
SSW-21 (10')*	10/20/2021	-	189	2.9	159		< 0.0053		< 0.0053		0.0131		< 0.0160		-		< 10.7		< 10.5		12.6		12.6
SSW-22	10/14/2021	-	1,100	8.3	626		< 0.0058		< 0.0058		< 0.0058		< 0.0174		-		< 11.6		13.2		23.7		36.9
SSW-22 (4')	10/15/2021	-	39.4	1.9	< 106		< 0.0054		< 0.0054		< 0.0054		< 0.0162		-		< 10.1		269		500		769
SSW-22 (10')*	10/20/2021	-	286	1.6	163		< 0.0051		< 0.0051		0.0061		< 0.0152		0.0061		< 10.1		< 10.2		12.6		12.6
SSW-23	10/14/2021	-	573	3.9	659		< 0.0055		< 0.0055		< 0.0055		< 0.0164		-		< 11.0		148		99.7		248
SSW-23 (6')*	10/20/2021	-	217	2.8	191		< 0.0054		< 0.0054		0.0067		< 0.0162		0.0067		< 10.8		11.1		14.3		25.4
SSW-24	10/13/2021	-	2,980	6.4	3,190		< 0.0056		< 0.0056		< 0.0056		< 0.0169		-		< 11.3		15.5		33.2		48.7
SSW-24 (6')*	10/14/2021	-	238	1.1	126		< 0.0053		< 0.0053		< 0.0053		< 0.0158		-		< 10.5		< 10.5		12.1		12.1
SSW-25	10/13/2021	-	3,410	2.5	4,020		< 0.0061		< 0.0061		< 0.0061		< 0.0182		-		< 12.1		< 10.9		26.0		26.0
SSW-25 (4')*	10/14/2021	-	-	-	301		< 0.0048		< 0.0048		< 0.0048		< 0.0145		-		< 9.7		< 9.9		14.4		14.4
SSW-26	10/13/2021	-	2,640	1.9	3,630		< 0.0062		< 0.0062		< 0.0062		< 0.0186		-		< 12.4		< 11.1		17.5		17.5
SSW-26 (6')*	10/14/2021	-	-	-	< 102		< 0.0053		< 0.0053		< 0.0053		< 0.0158		-		< 10.6		18.6		31.2		49.8
SSW-27	10/11/2021	-	706	2.7	325		< 0.0057		< 0.0057		< 0.0057		< 0.0170		-		< 11.3		10.5		16.1		26.6
SSW-28	10/6/2021	-	530	0.8	377		< 0.0052		< 0.0052		< 0.0052		< 0.0157		-		< 10.5		19.1		31.2		50.3
WSW-1	10/4/2021	-	332	13.4	1,520	M1	< 0.0057		< 0.0057		< 0.0057		< 0.0171		-		< 11.4		11.1		15.0		26.1
WSW-1 (1')*	10/11/2021	-	-	-	193		< 0.0055		< 0.0055		< 0.0055		< 0.0164		-		< 11.0		< 10.4		16.4		16.4
WSW-2 (6')*	10/4/2021	-	401	7.4	374		< 0.0046		< 0.0046		< 0.0046		< 0.0139		-		< 9.3		12.1		21.4		33.5
WSW-3	10/6/2021	-	1,510	1.4	1,160		< 0.0052		< 0.0052		< 0.0052		< 0.0155		-		< 10.3		13.2		27.2		40.4
WSW-3 (4')*	10/6/2021	-	69.4	0.0	< 99.2		< 0.0048		< 0.0048		< 0.0048		< 0.0144		-		< 9.6		24.0		36.8		60.8
WSW-4	10/7/2021	-	474	0.8	322		< 0.0051		< 0.0051		< 0.0051		< 0.0153		-		< 10.2		14.2		26.6		40.8

NOTES:

ft. Feet
bgs Below ground surface
ppm Parts per million
mg/kg Milligrams per kilogram
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
ORO Oil range organics
1 EPA Method 9056
2 Method SM4500Cl-B
3 EPA Method 8260B
4 Method 80218
5 EPA Method 8015B
6 Method 8015M

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

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

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

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

QUALIFIERS:

M1 Matrix spike recovery exceeded QC limits. Batch based on laboratory control sample (LCS) recovery.

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

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.

APPENDIX A C-141 Forms

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

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

Incident ID	NRM1930958355
District RP	1RP-5782
Facility ID	fGRL0928155860
Application ID	pRM1930959194

Release Notification

Responsible Party

Responsible Party ConocoPhillips Company	OGRID 217817
Contact Name Gustavo Fejervary	Contact Telephone 432/210-7037
Contact email g.fejervary@cop.com	Incident # (assigned by OCD)
Contact mailing address 5735 SW 7000 Andrews, TX 79714	

Location of Release Source

Latitude 32.80340 Longitude -103.46305
(NAD 83 in decimal degrees to 5 decimal places)

Site Name VGEU 02-01 Flowline leak	Site Type flowline
Date Release Discovered 10/10/19	API# (if applicable)

Unit Letter	Section	Township	Range	County
K & J	28	17S	35E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 11	Volume Recovered (bbls) 5.5
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 362	Volume Recovered (bbls) 174.5
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Flowline rupture

Form C-141

State of New Mexico
Oil Conservation Division

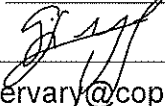
Page 2

Incident ID	NRM1930958355
District RP	1RP-5782
Facility ID	fGRL0928155860
Application ID	pRM1930959194

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? it was more than 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, email sent to Bradford Billings, District 1 spill reporting email address and Dylan Rose-Coss	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Gustavo Fejervary</u> Signature: <u></u> email: <u>g.fejervary@cop.com</u>	Title: <u>Environmental Coordinator</u> Date: <u>10/16/19</u> Telephone: <u>432/210-7037</u>
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>11/5/2019</u>	

Incident ID	NRM1930958355
District RP	1RP-5782
Facility ID	fGRL0928155860
Application ID	pRM1930959194

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	80 _____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

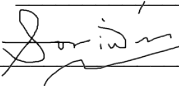
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods,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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NRM1930958355
District RP	1RP-5782
Facility ID	fGRL0928155860
Application ID	pRM1930959194

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

Printed Name: Marvin Soriwei Title: Program Manager, Risk Management & RemediationSignature: Date: 2/2/2021email: marvin.soriwei@conocophillips.comTelephone: 8324862730**OCD Only**

Received by: _____

Date: _____

Incident ID	NRM1930958355
District RP	1RP-5782
Facility ID	fGRL0928155860
Application ID	pRM1930959194

Remediation Plan

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

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

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

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

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

Printed Name: Marvin SoriweiTitle: Program Manager, Risk Management & RemediationSignature: Date: 2/2/2021email: marvin.soriwei@conocophillips.comTelephone: 8324862730**OCD Only**Received by: Robert HamletDate: 6/10/2021☐ Approved☒ Approved with Attached Conditions of Approval☐ Denied☐ Deferral ApprovedSignature: Robert HamletDate: 6/10/2021

Incident ID	NRM1930958355
District RP	1RP-5782
Facility ID	fGRL0928155860
Application ID	pRM1930959194

Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

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

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

Printed Name: Sam WidmerTitle: Principal Program Manager

Signature: _____

DocuSigned by:

Date: Apr-05-2022email: Sam.widmer@conocophillips.comTelephone: 281-206-5298

OCD Only

Received by: _____

Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____

Title: _____





APPENDIX B

Site Characterization Data

Karst Potential Map

VGEU 2801-02 Release

Legend

-  High
-  Low
-  Medium
-  VGEU 2801-02 Release

Lovington

Lea

VGEU 2801-02 Release



Google Earth

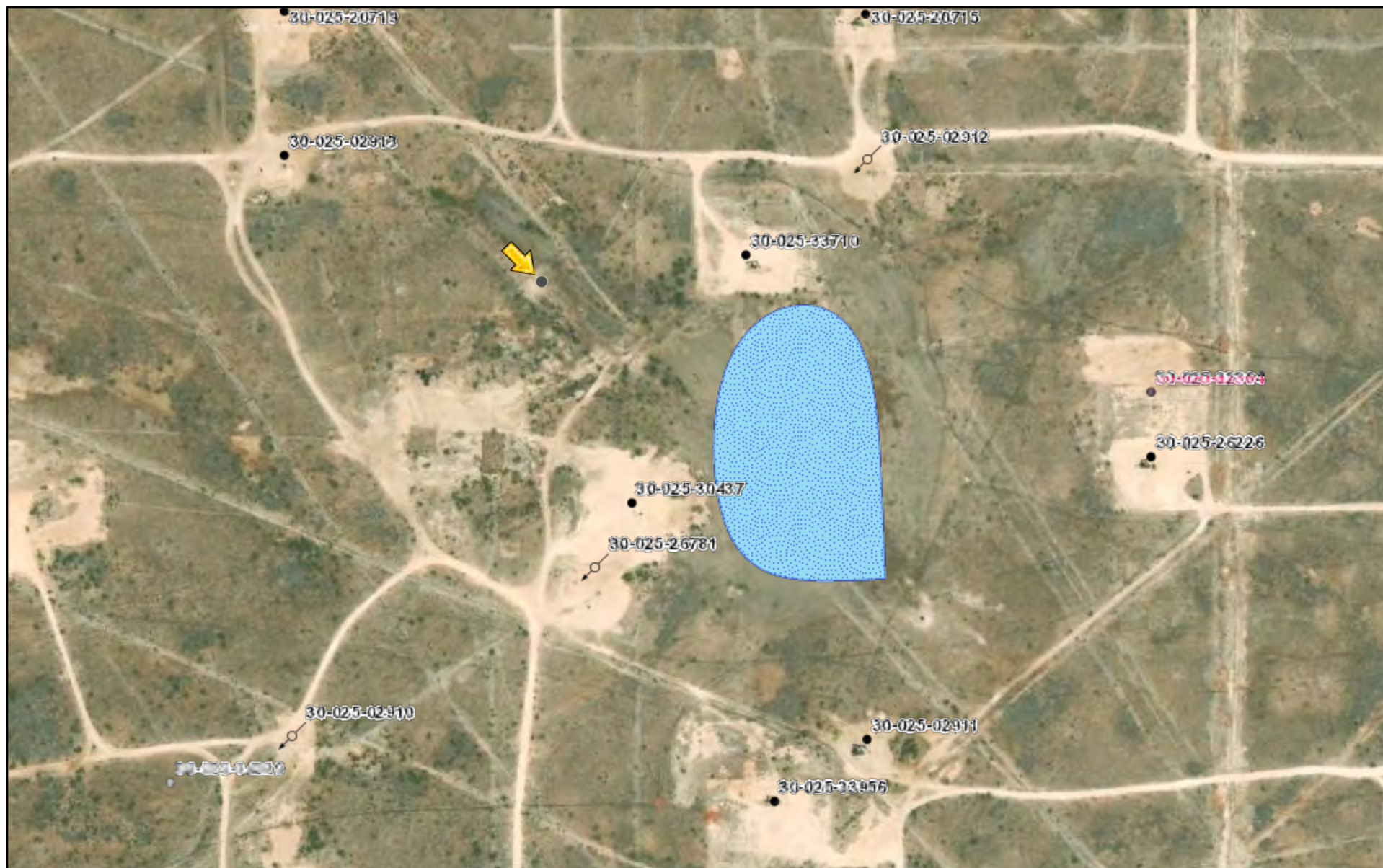
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Image Landsat / Copernicus

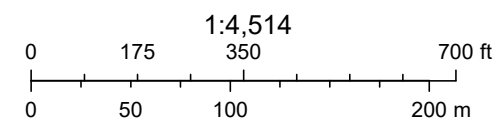
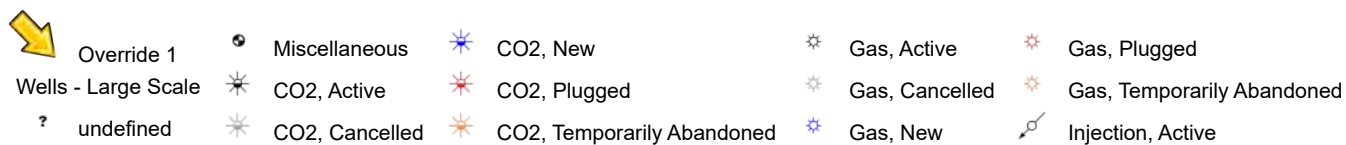


10 mi

VGEU 01-02 FL Release



4/6/2022, 3:14:17 PM



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Oil

New Mexico Oil Conservation Division



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 05362	L	LE		3	4	4	28	17S	35E	644444	3630117*	614	140	80	60

Average Depth to Water: **80 feet**

Minimum Depth: **80 feet**

Maximum Depth: **80 feet**

Record Count: 1

UTM NAD83 Radius Search (in meters):

Easting (X): 643947.281

Northing (Y): 3630478.162

Radius: 800

*UTM location was derived from PLSS - see Help

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

1/18/22 12:36 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface


USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

Click to hideNews Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for New Mexico

Click to hide state-specific text

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 324824103271501

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 324824103271501 17S.35E.28.22332

Lea County, New Mexico
Latitude 32°48'37.1", Longitude 103°27'27.5" NAD83
Land-surface elevation 3,948.00 feet above NGVD29
The depth of the well is 125 feet below land surface.
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1961-02-17			D	62610	3901.79	NGVD29	1	Z			A
1961-02-17			D	62611	3903.26	NAVD88	1	Z			A
1961-02-17			D	72019	46.21		1	Z			A
1966-03-17			D	62610	3900.65	NGVD29	1	Z			A
1966-03-17			D	62611	3902.12	NAVD88	1	Z			A
1966-03-17			D	72019	47.35		1	Z			A
1971-02-12			D	62610	3900.61	NGVD29	1	Z			A
1971-02-12			D	62611	3902.08	NAVD88	1	Z			A
1971-02-12			D	72019	47.39		1	Z			A
1976-03-17			D	62610	3900.40	NGVD29	1	Z			A
1976-03-17			D	62611	3901.87	NAVD88	1	Z			A
1976-03-17			D	72019	47.60		1	Z			A
1981-01-21			D	62610	3898.49	NGVD29	1	Z			A
1981-01-21			D	62611	3899.96	NAVD88	1	Z			A
1981-01-21			D	72019	49.51		1	Z			A
1986-04-08			D	62610	3892.60	NGVD29	1	Z			A
1986-04-08			D	62611	3894.07	NAVD88	1	Z			A
1986-04-08			D	72019	55.40		1	Z			A
1990-12-20			D	62610	3891.25	NGVD29	1	Z			A
1990-12-20			D	62611	3892.72	NAVD88	1	Z			A
1990-12-20			D	72019	56.75		1	Z			A
1996-02-08			D	62610	3889.70	NGVD29	1	S			A
1996-02-08			D	62611	3891.17	NAVD88	1	S			A
1996-02-08			D	72019	58.30		1	S			A
2001-01-16			D	62610	3888.03	NGVD29	1	S			A
2001-01-16			D	62611	3889.50	NAVD88	1	S			A
2001-01-16			D	72019	59.97		1	S			A
2006-02-21	23:16 UTC		m	62610	3887.40	NGVD29	1	S	USGS	S	A
2006-02-21	23:16 UTC		m	62611	3888.87	NAVD88	1	S	USGS	S	A
2006-02-21	23:16 UTC		m	72019	60.60		1	S	USGS	S	A
2010-12-20	17:00 UTC		m	62610	3885.92	NGVD29	1	O	USGS	S	A

2010-12-20	17:00 UTC	m	62611		3887.39	NAVD88	1	O	USGS	S	A
2010-12-20	17:00 UTC	m	72019	62.08			1	O	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	O	Observed.
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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[Automated retrievals](#)
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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for New Mexico: Water Levels

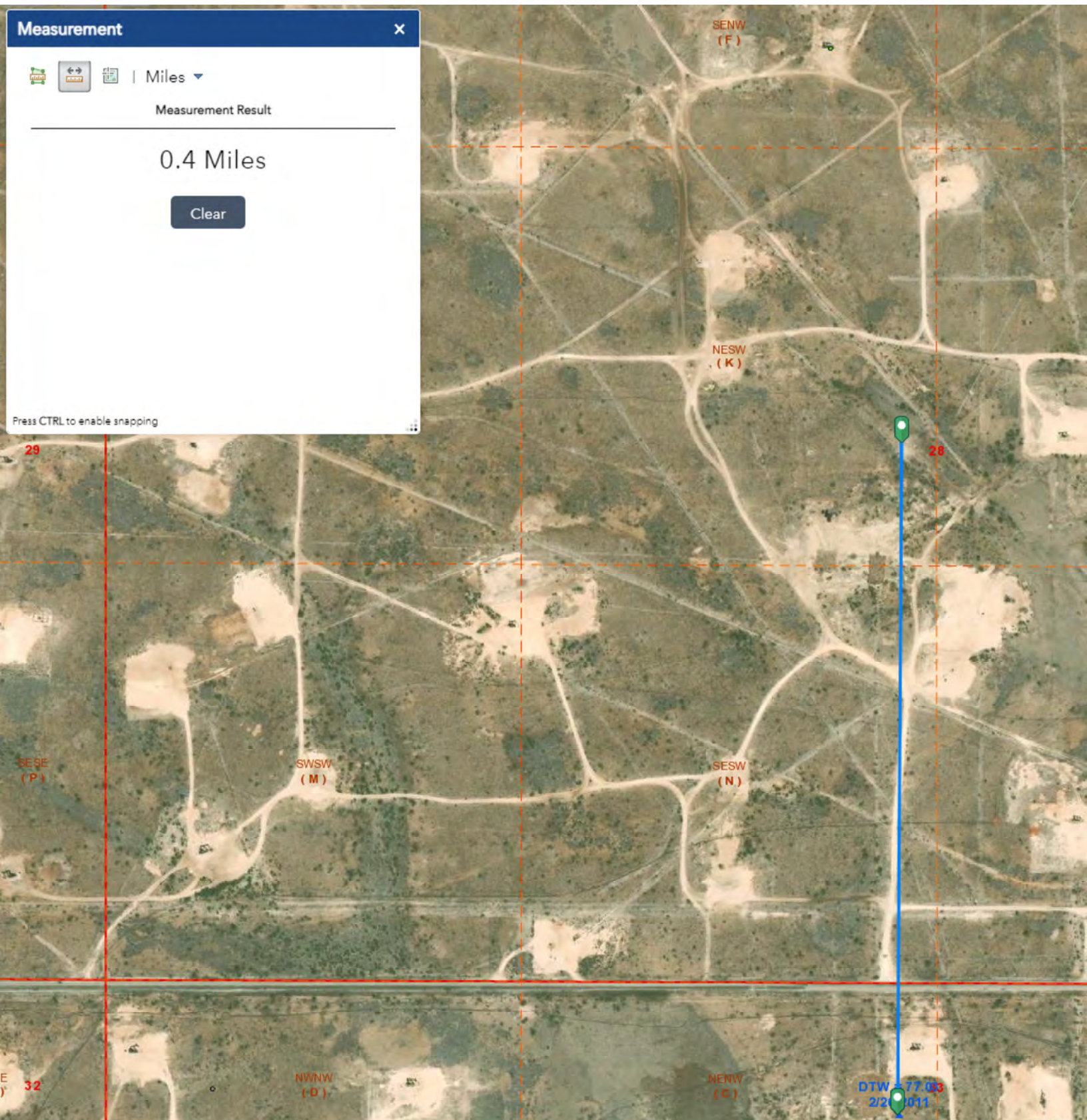
URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>

Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2021-11-23 15:24:06 EST

0.29 0.25 nadww01





APPENDIX C

Regulatory Correspondence

Llull, Christian

From: Llull, Christian
Sent: Tuesday, November 30, 2021 4:23 PM
To: 'Hamlet, Robert, EMNRD'
Cc: Bratcher, Mike, EMNRD; Dickerson, Ryan
Subject: FW: [EXTERNAL] RE: [EXTERNAL]FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 16718
Attachments: USGS Groundwater for New Mexico_ Water Levels -- 1 sites.pdf; VGEU 01-02 FL Release - USGS well.pdf; Appendix C - Boring Log.pdf

Mr. Hamlet,

We are currently in remediation at the site. We are evaluating floor samples for further excavation and need guidance from OCD.

Are the below lines of evidence sufficient for the GW determination?

Please advise.

Christian

From: Llull, Christian
Sent: Tuesday, November 23, 2021 4:10 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Cc: Dickerson, Ryan <Ryan.Dickerson@tetrattech.com>
Subject: RE: [EXTERNAL] RE: [EXTERNAL]FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 16718

Mr. Hamlet:

Understood. I comprehend now that you were not providing actual action levels, but rather an example scenario.

Note, in the approved VGEU 01-02 WP (nRM1930958355), we did establish DTW at 80' bgs.

"According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there is one water well within ½ mile (800 meters) of the Site. The well has a depth to groundwater of 80 feet below ground surface (bgs). The site characterization data is included in Appendix B."

However, the provided well data in the report site characterization is greater than 25 years old.

Based on your correspondence below, Tetra Tech offers the following research/determination.

The online USGS National Water Information System database was reviewed to determine if there were any wells which met the criteria.

One well was located at approximately 0.54 miles away, with contemporaneous data from the last 25 years. The well is USGS well 324824103271501. The depth of the well is 125' bgs.

The well is completed in the Ogallala Formation.

The collected data indicates that the water level in the well has varied from 58' bgs to 62' bgs in the years observed (1996-2010).

The location of the well is provided in the attached figure.

The water level data is provided in the attached pdf.

Additionally on August 25, 2021, approximately 1.25 miles away from the nRM1930958355 release footprint, a licensed well drilling subcontractor was onsite to drill a groundwater determination borehole to 55 feet bgs.

The borehole was dry upon completion, and soils were dry from surface to total depth.

The depth to groundwater in the area was thus verified as greater than 55 feet bgs.

The borehole was plugged with 3/8" bentonite chips on August 25, 2021. The borehole coordinates are 32.793424°, -103.482099°.

Although this boring is greater than ½ mile away, it does provide an additional contemporaneous data point.

So by conditions of approval and based on these two lines of evidence, at 4' bgs, would it be acceptable to OCD to revert to 10,000 mg/kg for Chlorides, 2,500 mg/kg for TPH (GRO+DRO+MRO), 1000 mg/kg (GRO+DRO), BTEX 50 mg/kg, and Benzene 10 mg/kg?

Christian

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>

Sent: Tuesday, November 23, 2021 8:18 AM

To: Llull, Christian <Christian.Llull@tetrattech.com>

Subject: RE: [EXTERNAL] RE: [EXTERNAL]FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 16718

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

Christian,

The example of 105' depth to groundwater in the previous email was only to show what I meant by "In the pasture area, 4 feet below the ground surface, soil contamination limits revert back to Table 1 in the spill rule". I really have no idea what the depth to groundwater is out at that location. Tetra Tech would need to do their own research and make that determination. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less.

Regards,

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau

EMNRD - Oil Conservation Division

811 S. First Street | Artesia, NM 88210

575.909.0302 | robert.hamlet@state.nm.us

<http://www.emnrd.state.nm.us/OCD/>



From: Llull, Christian <Christian.Llull@tetrattech.com>

Sent: Monday, November 22, 2021 1:29 PM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>

Cc: Dickerson, Ryan <Ryan.Dickerson@tetrattech.com>; Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Subject: RE: [EXTERNAL] RE: [EXTERNAL]FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 16718

Mr. Hamlet:

Another question.

We have had another separate release which occurred during the remediation activities associated with nRM1930958355. (C-141 attached).

The new incident occurred on October 25. The footprint of the new release is largely coincident with the previous release footprint, and COP and Tetra Tech plan to complete remediation of the new footprint within 90 days.

Regarding the below clarification items i.e.:

Surface to 4' bgs → 600 mg/kg for Chlorides, 100 mg/kg for TPH(GRO+DRO+MRO), BTEX 50 mg/kg, and Benzene 10 mg/kg

>4' bgs → 20,000 mg/kg for Chlorides, 2,500 mg/kg for TPH (GRO+DRO+MRO), 1000 mg/kg (GRO+DRO), BTEX 50 mg/kg, and Benzene 10 mg/kg.

Would NMOCD allow these limits to be used on the new release footprint remediation?

Please let me know if you have any questions.

Christian



From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>

Sent: Thursday, November 18, 2021 10:21 AM

To: Llull, Christian <Christian.Llull@tetrattech.com>

Cc: Dickerson, Ryan <Ryan.Dickerson@tetrattech.com>; Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Subject: RE: [EXTERNAL] RE: [EXTERNAL]FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 16718

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Christian,

In the pasture area, 4 feet below the ground surface, soil contamination limits revert back to Table 1 in the spill rule.

If the depth to water determination was confirmed to be 105'. 4 feet below ground surface would need to be remediated to >100'. On Table 1 in the OCD Spill Rule, that would include limits of 20,000 mg/kg for Chlorides, 2,500 mg/kg for TPH (GRO+DRO+MRO), 1000 mg/kg (GRO+DRO), BTEX 50 mg/kg, and Benzene 10 mg/kg.

Surface to 4' bgs → 600 mg/kg for Chlorides, 100 mg/kg for TPH(GRO+DRO+MRO), BTEX 50 mg/kg, and Benzene 10 mg/kg

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Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Llull, Christian <Christian.Llull@tetrattech.com>
Sent: Thursday, November 18, 2021 9:01 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Cc: Dickerson, Ryan <Ryan.Dickerson@tetrattech.com>; Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
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Mr. Hamlet,

Tetra Tech has a few questions on behalf of COP regarding the conditions of approval below, on Incident nRM1930958355.
Specifically, the statement ***"In the pasture area, 4 feet below the ground surface, soil contamination limits revert back to Table 1 in the spill rule."***
At your convenience, email me and let me know a good time to call you. Conversely, please call me at 512-565-0190. I tried the number in your signature multiple times but was unable to reach you.

Christian

From: Llull, Christian
Sent: Friday, October 15, 2021 4:07 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Cc: Dickerson, Ryan <Ryan.Dickerson@tetrattech.com>; ocd.enviro@state.nm.us
Subject: RE: [EXTERNAL]FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 16718

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I tried the number below, but it was not a working number.

Christian

Christian Llull, P.G. | Program Manager
Direct +1 (512) 338-2861 | Business +1 (512) 338-1667 | Fax +1 (512) 338-1331 | christian.llull@tetrattech.com

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

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From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, June 10, 2021 10:20 AM
To: Llull, Christian <Christian.Llull@tetrattech.com>
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 16718

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To whom it may concern (c/o Christian Llull for CONOCOPHILLIPS COMPANY),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nRM1930958355, with the following conditions:

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

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

Thank you,
Robert Hamlet
575-748-1283
Robert.Hamlet@state.nm.us

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

From: [Dickerson, Ryan](#)
To: ocd.enviro@state.nm.us
Cc: [Poole, Nicholas](#); [Lull, Christian](#)
Subject: Incident ID: nRM1930958355 - Confirmation Sampling
Date: Thursday, September 23, 2021 2:47:04 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)

Re: Incident ID (n#) nRM1930958355 (VGEU 01-02 Flowline Release)

To whom it may concern,

In accordance with Subsection D of 19.15.29.12 NMAC, the responsible party must verbally notify the appropriate division district office prior to conducting confirmation sampling.

Remediation activities are beginning at the site next week.

Thus, on behalf of ConocoPhillips for the above referenced incident, Tetra Tech is duly providing this communication which serves as notification that final confirmation sampling will be conducted at this site from September 27, 2021 through December 21, 2021.

NOTE: If you have any questions regarding this sampling schedule, please contact me.

Ryan Dickerson | Senior Staff Geologist

Direct +1 (512) 338-2889 | Main +1 (512) 338-1667 | Cell +1 (512) 217-7254 | ryan.dickerson@tetrattech.com

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

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

Thank you,
Robert Hamlet
575-748-1283
Robert.Hamlet@state.nm.us

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

Llull, Christian

From: Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>
Sent: Wednesday, January 05, 2022 10:22 AM
To: Llull, Christian
Subject: RE: [EXTERNAL] Fwd: Request for Review *(The Oil Conservation Division (OCD) has approved the application, Application ID: 16718)*

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That can be used.

From: Llull, Christian <Christian.Llull@tetrattech.com>
Sent: Wednesday, January 5, 2022 9:10 AM
To: Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>
Subject: Re: [EXTERNAL] Fwd: Request for Review *(The Oil Conservation Division (OCD) has approved the application, Application ID: 16718)*

Thank you Chad.

Can COP/TT consider this OCD verification of GW or do you need to discuss further with Mike Bratcher?

Christian

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From: Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>
Sent: Wednesday, January 5, 2022 8:09 AM
To: Llull, Christian
Subject: RE: [EXTERNAL] Fwd: Request for Review *(The Oil Conservation Division (OCD) has approved the application, Application ID: 16718)*

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DTW = 77.03 bgs

From: Llull, Christian <Christian.Llull@tetrattech.com>
Sent: Tuesday, January 4, 2022 5:01 PM
To: Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>
Subject: [EXTERNAL] Fwd: Request for Review *(The Oil Conservation Division (OCD) has approved the application, Application ID: 16718)*

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Chad, per discussion today.

Christian

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From: Lull, Christian

Sent: Friday, December 10, 2021 1:28:43 PM

To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Cc: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Dickerson, Ryan <Ryan.Dickerson@tetrattech.com>

Subject: Request for Review *(The Oil Conservation Division (OCD) has approved the application, Application ID: 16718)*

Mike,

Thanks for taking my call earlier this week. I know your schedule is hectic and it is difficult to jump in on an individual project basis.

To complete this project we need guidance from OCD. This is a large remediation project that has been complicated by an additional coincident release.

I have included a Google Earth Pdf map with a few items of interest, as requested (VGEU 01-02 Site Feature Map).

The item we need guidance on is the RRALs at 4' Bgs (which will set the excavation depth for the site), which will be obviously guided by establishment of DTW in the vicinity of the site.

We are currently in remediation and the figure indicates an approximate current excavated extent.

WP Review and OCD Approval

The Incident nRM1930958355 WP RRALs were set at the most stringent levels for the site, based on the proximity to the playa lake.

However, in the WP approval with conditions (see below) the direction from OCD was to revert back to Table 1 at 4' bgs.

- **The Remediation Plan is approved with the following conditions: Surface to 4' below ground surface sidewall/floor samples need to comply with the strictest closure criteria limits 600 mg/kg for Chlorides and 100 mg/kg TPH. In the pasture area, 4 feet below the ground surface, soil contamination limits revert back to Table 1 in the spill rule. If rock refusal is encountered, use hydrovac to clean contaminated soil off rock. After rock surface is clean, layer rock with microbial strains to digest organics and hydrocarbons if present. Back-fill with clean material. Alternative sample plan is approved with 500 ft2 closure confirmation samples. Liner at the base of excavation is denied.**

On Thursday, November 18, Rob clarified that using the DTW would set the RRALs to be used at 4' bgs (see below).

Thus, to frame this discussion, in the approved VGEU 01-02 FL Release WP (nRM1930958355), we did establish DTW at 80' bgs.

"According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there is one water well within ½ mile (800 meters) of the Site. The well has a depth to groundwater of 80 feet below ground surface (bgs). The site characterization data is included in Appendix B."

However, the provided well data in the report site characterization is greater than 25 years old. We are aware of OCD stipulations on GW data used to establish DTW.

Based on Correspondence from Rob below, Tetra Tech offered the following research/determination.

DTW Determination

The online USGS National Water Information System database was reviewed to determine if there were any wells which met the criteria.

One well was located at approximately 0.54 miles away, with contemporaneous data from the last 25 years. The well is USGS well 324824103271501. The depth of the well is 125' bgs.

The well is completed in the Ogallala Formation.

The collected data indicates that the water level in the well has varied from 58' bgs to 62' bgs in the years observed (1996-2010).

The location of the well is provided in an attached figure.

The water level data is provided in the attached pdf.

This water level (51-100' bgs) would confirm the RRALs at 4' bgs in the remediation areas as 10,000 mg/kg for Chlorides, 2,500 mg/kg for TPH (GRO+DRO+MRO), 1000 mg/kg (GRO+DRO), BTEX 50 mg/kg, and Benzene 10 mg/kg.

The request for review is for OCD to provide approval of the DTW determination, which would set the RRALs at 4' bgs, based on the conditions set by OCD.

Feel free to call if you have any questions.

Christian

512-565-0190

From: Llull, Christian

Sent: Tuesday, November 30, 2021 4:23 PM

To: 'Hamlet, Robert, EMNRD' <Robert.Hamlet@state.nm.us>

Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Dickerson, Ryan <Ryan.Dickerson@tetrattech.com>

Subject: FW: [EXTERNAL] RE: [EXTERNAL]FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 16718

Mr. Hamlet,

We are currently in remediation at the site. We are evaluating floor samples for further excavation and need guidance from OCD.

Are the below lines of evidence sufficient for the GW determination?

Please advise.

Christian

From: Llull, Christian

Sent: Tuesday, November 23, 2021 4:10 PM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>

Cc: Dickerson, Ryan <Ryan.Dickerson@tetrattech.com>

Subject: RE: [EXTERNAL] RE: [EXTERNAL]FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 16718

Mr. Hamlet:

Understood. I comprehend now that you were not providing actual action levels, but rather an example scenario.

Note, in the approved VGEU 01-02 WP (nRM1930958355), we did establish DTW at 80' bgs.

"According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there is one water well within ½ mile (800 meters) of the Site. The well has a depth to groundwater of 80 feet below ground surface (bgs). The site characterization data is included in Appendix B."

However, the provided well data in the report site characterization is greater than 25 years old.

Based on your correspondence below, Tetra Tech offers the following research/determination.

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The well is completed in the Ogallala Formation.

The collected data indicates that the water level in the well has varied from 58' bgs to 62' bgs in the years observed (1996-2010).

The location of the well is provided in the attached figure.

The water level data is provided in the attached pdf.

Additionally on August 25, 2021, approximately 1.25 miles away from the nRM1930958355 release footprint, a licensed well drilling subcontractor was onsite to drill a groundwater determination borehole to 55 feet bgs. The borehole was dry upon completion, and soils were dry from surface to total depth. The depth to groundwater in the area was thus verified as greater than 55 feet bgs. The borehole was plugged with 3/8" bentonite chips on August 25, 2021. The borehole coordinates are 32.793424°, -103.482099°. Although this boring is greater than ½ mile away, it does provide an additional contemporaneous data point.

So by conditions of approval and based on these two lines of evidence, at 4' bgs, would it be acceptable to OCD to revert to 10,000 mg/kg for Chlorides, 2,500 mg/kg for TPH (GRO+DRO+MRO), 1000 mg/kg (GRO+DRO), BTEX 50 mg/kg, and Benzene 10 mg/kg?

Christian

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Tuesday, November 23, 2021 8:18 AM
To: Lull, Christian <Christian.Lull@tetrattech.com>
Subject: RE: [EXTERNAL] RE: [EXTERNAL]FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 16718

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Christian,

The example of 105' depth to groundwater in the previous email was only to show what I meant by "In the pasture area, 4 feet below the ground surface, soil contamination limits revert back to Table 1 in the spill rule". I really have no idea what the depth to groundwater is out at that location. Tetra Tech would need to do their own research and make that determination. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less.

Regards,

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Lull, Christian <Christian.Lull@tetrattech.com>
Sent: Monday, November 22, 2021 1:29 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Cc: Dickerson, Ryan <Ryan.Dickerson@tetrattech.com>; Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Subject: RE: [EXTERNAL] RE: [EXTERNAL]FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 16718

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Would NMOCD allow these limits to be used on the new release footprint remediation?

Please let me know if you have any questions.

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Robert Hamlet
575-748-1283
Robert.Hamlet@state.nm.us

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

Llull, Christian

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That can be used.

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Sent: Wednesday, January 5, 2022 9:10 AM
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Thank you Chad.

Can COP/TT consider this OCD verification of GW or do you need to discuss further with Mike Bratcher?

Christian

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To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Cc: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Dickerson, Ryan <Ryan.Dickerson@tetrattech.com>

Subject: Request for Review *(The Oil Conservation Division (OCD) has approved the application, Application ID: 16718)*

Mike,

Thanks for taking my call earlier this week. I know your schedule is hectic and it is difficult to jump in on an individual project basis.

To complete this project we need guidance from OCD. This is a large remediation project that has been complicated by an additional coincident release.

I have included a Google Earth Pdf map with a few items of interest, as requested (VGEU 01-02 Site Feature Map).

The item we need guidance on is the RRALs at 4' Bgs (which will set the excavation depth for the site), which will be obviously guided by establishment of DTW in the vicinity of the site.

We are currently in remediation and the figure indicates an approximate current excavated extent.

WP Review and OCD Approval

The Incident nRM1930958355 WP RRALs were set at the most stringent levels for the site, based on the proximity to the playa lake.

However, in the WP approval with conditions (see below) the direction from OCD was to revert back to Table 1 at 4' bgs.

- **The Remediation Plan is approved with the following conditions: Surface to 4' below ground surface sidewall/floor samples need to comply with the strictest closure criteria limits 600 mg/kg for Chlorides and 100 mg/kg TPH. In the pasture area, 4 feet below the ground surface, soil contamination limits revert back to Table 1 in the spill rule. If rock refusal is encountered, use hydrovac to clean contaminated soil off rock. After rock surface is clean, layer rock with microbial strains to digest organics and hydrocarbons if present. Back-fill with clean material. Alternative sample plan is approved with 500 ft2 closure confirmation samples. Liner at the base of excavation is denied.**

On Thursday, November 18, Rob clarified that using the DTW would set the RRALs to be used at 4' bgs (see below).

Thus, to frame this discussion, in the approved VGEU 01-02 FL Release WP (nRM1930958355), we did establish DTW at 80' bgs.

"According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there is one water well within ½ mile (800 meters) of the Site. The well has a depth to groundwater of 80 feet below ground surface (bgs). The site characterization data is included in Appendix B."

However, the provided well data in the report site characterization is greater than 25 years old. We are aware of OCD stipulations on GW data used to establish DTW.

Based on Correspondence from Rob below, Tetra Tech offered the following research/determination.

DTW Determination

The online USGS National Water Information System database was reviewed to determine if there were any wells which met the criteria.

One well was located at approximately 0.54 miles away, with contemporaneous data from the last 25 years. The well is USGS well 324824103271501. The depth of the well is 125' bgs.

The well is completed in the Ogallala Formation.

The collected data indicates that the water level in the well has varied from 58' bgs to 62' bgs in the years observed (1996-2010).

The location of the well is provided in an attached figure.

The water level data is provided in the attached pdf.

This water level (51-100' bgs) would confirm the RRALs at 4' bgs in the remediation areas as 10,000 mg/kg for Chlorides, 2,500 mg/kg for TPH (GRO+DRO+MRO), 1000 mg/kg (GRO+DRO), BTEX 50 mg/kg, and Benzene 10 mg/kg.

The request for review is for OCD to provide approval of the DTW determination, which would set the RRALs at 4' bgs, based on the conditions set by OCD.

Feel free to call if you have any questions.

Christian

512-565-0190

From: Llull, Christian

Sent: Tuesday, November 30, 2021 4:23 PM

To: 'Hamlet, Robert, EMNRD' <Robert.Hamlet@state.nm.us>

Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Dickerson, Ryan <Ryan.Dickerson@tetrattech.com>

Subject: FW: [EXTERNAL] RE: [EXTERNAL]FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 16718

Mr. Hamlet,

We are currently in remediation at the site. We are evaluating floor samples for further excavation and need guidance from OCD.

Are the below lines of evidence sufficient for the GW determination?

Please advise.

Christian

From: Llull, Christian

Sent: Tuesday, November 23, 2021 4:10 PM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>

Cc: Dickerson, Ryan <Ryan.Dickerson@tetrattech.com>

Subject: RE: [EXTERNAL] RE: [EXTERNAL]FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 16718

Mr. Hamlet:

Understood. I comprehend now that you were not providing actual action levels, but rather an example scenario.

Note, in the approved VGEU 01-02 WP (nRM1930958355), we did establish DTW at 80' bgs.

"According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there is one water well within ½ mile (800 meters) of the Site. The well has a depth to groundwater of 80 feet below ground surface (bgs). The site characterization data is included in Appendix B."

However, the provided well data in the report site characterization is greater than 25 years old.

Based on your correspondence below, Tetra Tech offers the following research/determination.

The online USGS National Water Information System database was reviewed to determine if there were any wells which met the criteria.

One well was located at approximately 0.54 miles away, with contemporaneous data from the last 25 years. The well is USGS well 324824103271501. The depth of the well is 125' bgs.

The well is completed in the Ogallala Formation.

The collected data indicates that the water level in the well has varied from 58' bgs to 62' bgs in the years observed (1996-2010).

The location of the well is provided in the attached figure.

The water level data is provided in the attached pdf.

Additionally on August 25, 2021, approximately 1.25 miles away from the nRM1930958355 release footprint, a licensed well drilling subcontractor was onsite to drill a groundwater determination borehole to 55 feet bgs. The borehole was dry upon completion, and soils were dry from surface to total depth. The depth to groundwater in the area was thus verified as greater than 55 feet bgs. The borehole was plugged with 3/8" bentonite chips on August 25, 2021. The borehole coordinates are 32.793424°, -103.482099°. Although this boring is greater than ½ mile away, it does provide an additional contemporaneous data point.

So by conditions of approval and based on these two lines of evidence, at 4' bgs, would it be acceptable to OCD to revert to 10,000 mg/kg for Chlorides, 2,500 mg/kg for TPH (GRO+DRO+MRO), 1000 mg/kg (GRO+DRO), BTEX 50 mg/kg, and Benzene 10 mg/kg?

Christian

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>

Sent: Tuesday, November 23, 2021 8:18 AM

To: Lull, Christian <Christian.Lull@tetrattech.com>

Subject: RE: [EXTERNAL] RE: [EXTERNAL]FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 16718

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Christian,

The example of 105' depth to groundwater in the previous email was only to show what I meant by "In the pasture area, 4 feet below the ground surface, soil contamination limits revert back to Table 1 in the spill rule". I really have no idea what the depth to groundwater is out at that location. Tetra Tech would need to do their own research and make that determination. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less.

Regards,

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Lull, Christian <Christian.Lull@tetrattech.com>

Sent: Monday, November 22, 2021 1:29 PM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>

Cc: Dickerson, Ryan <Ryan.Dickerson@tetrattech.com>; Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Subject: RE: [EXTERNAL] RE: [EXTERNAL]FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 16718

Mr. Hamlet:

Another question.

We have had another separate release which occurred during the remediation activities associated with nRM1930958355. (C-141 attached).

The new incident occurred on October 25. The footprint of the new release is largely coincident with the previous release footprint, and COP and Tetra Tech plan to complete remediation of the new footprint within 90 days.

Regarding the below clarification items i.e.:

Surface to 4' bgs → 600 mg/kg for Chlorides, 100 mg/kg for TPH(GRO+DRO+MRO), BTEX 50 mg/kg, and Benzene 10 mg/kg

>4' bgs → 20,000 mg/kg for Chlorides, 2,500 mg/kg for TPH (GRO+DRO+MRO), 1000 mg/kg (GRO+DRO), BTEX 50 mg/kg, and Benzene 10 mg/kg.

Would NMOCD allow these limits to be used on the new release footprint remediation?

Please let me know if you have any questions.

Christian

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>

Sent: Thursday, November 18, 2021 10:21 AM

To: Llull, Christian <Christian.Llull@tetrattech.com>

Cc: Dickerson, Ryan <Ryan.Dickerson@tetrattech.com>; Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Subject: RE: [EXTERNAL] RE: [EXTERNAL]FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 16718

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Christian,

In the pasture area, 4 feet below the ground surface, soil contamination limits revert back to Table 1 in the spill rule.

If the depth to water determination was confirmed to be 105'. 4 feet below ground surface would need to be remediated to >100'. On Table 1 in the OCD Spill Rule, that would include limits of 20,000 mg/kg for Chlorides, 2,500 mg/kg for TPH (GRO+DRO+MRO), 1000 mg/kg (GRO+DRO), BTEX 50 mg/kg, and Benzene 10 mg/kg.

Surface to 4' bgs → 600 mg/kg for Chlorides, 100 mg/kg for TPH(GRO+DRO+MRO), BTEX 50 mg/kg, and Benzene 10 mg/kg

>4' bgs → 20,000 mg/kg for Chlorides, 2,500 mg/kg for TPH (GRO+DRO+MRO), 1000 mg/kg (GRO+DRO), BTEX 50 mg/kg, and Benzene 10 mg/kg.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us

<http://www.emnrd.state.nm.us/OCD/>



From: Llull, Christian <Christian.Llull@tetrattech.com>
Sent: Thursday, November 18, 2021 9:01 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Cc: Dickerson, Ryan <Ryan.Dickerson@tetrattech.com>; Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Subject: [EXTERNAL] RE: [EXTERNAL]FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 16718

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Mr. Hamlet,

Tetra Tech has a few questions on behalf of COP regarding the conditions of approval below, on Incident nRM1930958355.

Specifically, the statement ***"In the pasture area, 4 feet below the ground surface, soil contamination limits revert back to Table 1 in the spill rule."***

At your convenience, email me and let me know a good time to call you. Conversely, please call me at 512-565-0190. I tried the number in your signature multiple times but was unable to reach you.

Christian

From: Llull, Christian
Sent: Friday, October 15, 2021 4:07 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Cc: Dickerson, Ryan <Ryan.Dickerson@tetrattech.com>; ocd.enviro@state.nm.us
Subject: RE: [EXTERNAL]FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 16718

Mr. Hamlet,

Tetra Tech has a few questions on behalf of COP regarding the conditions of approval below, on Incident nRM1930958355.

At your convenience, email or call 512-565-0190.

I tried the number below, but it was not a working number.

Christian

Christian Llull, P.G. | Program Manager
Direct +1 (512) 338-2861 | Business +1 (512) 338-1667 | Fax +1 (512) 338-1331 | christian.llull@tetrattech.com

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

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From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, June 10, 2021 10:20 AM
To: Llull, Christian <Christian.Llull@tetrattech.com>
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 16718

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To whom it may concern (c/o Christian Llull for CONOCOPHILLIPS COMPANY),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nRM1930958355, with the following conditions:

- **The Remediation Plan is approved with the following conditions: Surface to 4' below ground surface sidewall/floor samples need to comply with the strictest closure criteria limits 600 mg/kg for Chlorides and 100 mg/kg TPH. In the pasture area, 4 feet below the ground surface, soil contamination limits revert back to Table 1 in the spill rule. If rock refusal is encountered, use hydrovac to clean contaminated soil off rock. After rock surface is clean, layer rock with microbial strains to digest organics and hydrocarbons if present. Back-fill with clean material. Alternative sample plan is approved with 500 ft2 closure confirmation samples. Liner at the base of excavation is denied.**

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

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

Thank you,
Robert Hamlet
575-748-1283
Robert.Hamlet@state.nm.us

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

0.4 Miles

Clear

Press CTRL to enable snapping

29

28

SE SE
(P)

SWSW
(M)

SESW
(N)

APPENDIX D

Laboratory Analytical Data



October 15, 2021

Christian Lull
Tetra Tech-Houston
8911 N Capital of Texas Hwy.
Bldg. 2, Suite 2310
Austin, TX 78759

RE: Project: VGEU 2801-02
Pace Project No.: 60382356

Dear Christian Lull:

Enclosed are the analytical results for sample(s) received by the laboratory on October 07, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City

Revised Report REV_1

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nolie Wood
nolie.wood@pacelabs.com
1(913)563-1401
Project Manager

Enclosures

cc: Sam Abbott, Tetra Tech, Inc
Ryan Dickerson, Tetra Tech Houston TX
John Thurston, Tetra Tech-Houston TX



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: VGEU 2801-02

Pace Project No.: 60382356

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 20-020-0

Arkansas Drinking Water

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212020-2

Oklahoma Certification #: 9205/9935

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-19-12

Utah Certification #: KS000212019-9

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: VGEU 2801-02

Pace Project No.: 60382356

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60382356001	WSW-1	Solid	10/04/21 11:00	10/07/21 08:50
60382356002	WSW-2	Solid	10/04/21 11:05	10/07/21 08:50
60382356003	WSW-2 (6')	Solid	10/04/21 11:10	10/07/21 08:50
60382356004	NSW-1	Solid	10/04/21 11:15	10/07/21 08:50
60382356005	NSW-2	Solid	10/04/21 11:20	10/07/21 08:50
60382356006	NSW-3	Solid	10/04/21 11:25	10/07/21 08:50
60382356007	NSW-4	Solid	10/04/21 11:30	10/07/21 08:50
60382356008	NSW-5	Solid	10/04/21 11:35	10/07/21 08:50
60382356009	NSW-6	Solid	10/04/21 11:40	10/07/21 08:50
60382356010	NSW-7	Solid	10/04/21 11:45	10/07/21 08:50
60382356011	NSW-7 (6')	Solid	10/06/21 09:00	10/07/21 08:50
60382356012	WSW-3	Solid	10/06/21 09:10	10/07/21 08:50
60382356013	WSW-3 (4')	Solid	10/06/21 09:20	10/07/21 08:50
60382356014	WSW-4	Solid	10/06/21 09:30	10/07/21 08:50
60382356015	SSW-28	Solid	10/06/21 09:40	10/07/21 08:50

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SAMPLE ANALYTE COUNT

Project: VGEU 2801-02

Pace Project No.: 60382356

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60382356001	WSW-1	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60382356002	WSW-2	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60382356003	WSW-2 (6')	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60382356004	NSW-1	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60382356005	NSW-2	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60382356006	NSW-3	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60382356007	NSW-4	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60382356008	NSW-5	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K

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SAMPLE ANALYTE COUNT

Project: VGEU 2801-02

Pace Project No.: 60382356

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60382356009	NSW-6	EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
60382356010	NSW-7	ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
60382356011	NSW-7 (6')	EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60382356012	WSW-3	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
60382356013	WSW-3 (4')	EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
60382356014	WSW-4	EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
60382356015	SSW-28	ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: VGEU 2801-02

Pace Project No.: 60382356

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9056	ALH	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60382356

Sample: WSW-1 Lab ID: 60382356001 Collected: 10/04/21 11:00 Received: 10/07/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	11.1	mg/kg	10.5	1	10/07/21 12:50	10/07/21 20:25		
TPH-ORO (C28-C35)	15.0	mg/kg	10.5	1	10/07/21 12:50	10/07/21 20:25		
Surrogates								
n-Tetracosane (S)	81	%	31-152	1	10/07/21 12:50	10/07/21 20:25	646-31-1	CL
p-Terphenyl (S)	90	%	46-130	1	10/07/21 12:50	10/07/21 20:25	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.4	1	10/07/21 11:50	10/08/21 14:56		
Surrogates								
4-Bromofluorobenzene (S)	95	%	63-121	1	10/07/21 11:50	10/08/21 14:56	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.7	1	10/07/21 11:50	10/07/21 22:53	71-43-2	
Ethylbenzene	ND	ug/kg	5.7	1	10/07/21 11:50	10/07/21 22:53	100-41-4	
Toluene	ND	ug/kg	5.7	1	10/07/21 11:50	10/07/21 22:53	108-88-3	
Xylene (Total)	ND	ug/kg	17.1	1	10/07/21 11:50	10/07/21 22:53	1330-20-7	
Surrogates								
Toluene-d8 (S)	108	%	80-120	1	10/07/21 11:50	10/07/21 22:53	2037-26-5	
4-Bromofluorobenzene (S)	98	%	83-119	1	10/07/21 11:50	10/07/21 22:53	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	10/07/21 11:50	10/07/21 22:53	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	7.4	%	0.50	1		10/07/21 13:31		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	1520	mg/kg	108	10	10/07/21 14:32	10/07/21 20:46	16887-00-6	M1

Sample: WSW-2 Lab ID: 60382356002 Collected: 10/04/21 11:05 Received: 10/07/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	25.5	mg/kg	10.5	1	10/07/21 12:50	10/07/21 20:49		
TPH-ORO (C28-C35)	42.3	mg/kg	10.5	1	10/07/21 12:50	10/07/21 20:49		
Surrogates								
n-Tetracosane (S)	71	%	31-152	1	10/07/21 12:50	10/07/21 20:49	646-31-1	CL
p-Terphenyl (S)	77	%	46-130	1	10/07/21 12:50	10/07/21 20:49	92-94-4	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60382356

Sample: WSW-2 **Lab ID: 60382356002** Collected: 10/04/21 11:05 Received: 10/07/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	9.4	1	10/07/21 11:50	10/08/21 15:42		
Surrogates								
4-Bromofluorobenzene (S)	97	%	63-121	1	10/07/21 11:50	10/08/21 15:42	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	4.7	1	10/07/21 11:50	10/07/21 23:14	71-43-2	
Ethylbenzene	ND	ug/kg	4.7	1	10/07/21 11:50	10/07/21 23:14	100-41-4	
Toluene	ND	ug/kg	4.7	1	10/07/21 11:50	10/07/21 23:14	108-88-3	
Xylene (Total)	ND	ug/kg	14.2	1	10/07/21 11:50	10/07/21 23:14	1330-20-7	
Surrogates								
Toluene-d8 (S)	106	%	80-120	1	10/07/21 11:50	10/07/21 23:14	2037-26-5	
4-Bromofluorobenzene (S)	99	%	83-119	1	10/07/21 11:50	10/07/21 23:14	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	10/07/21 11:50	10/07/21 23:14	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	5.1	%	0.50	1		10/07/21 13:31		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	368	mg/kg	104	10	10/07/21 14:32	10/07/21 21:35	16887-00-6	

Sample: WSW-2 (6') **Lab ID: 60382356003** Collected: 10/04/21 11:10 Received: 10/07/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	12.1	mg/kg	10	1	10/07/21 12:50	10/07/21 20:57		
TPH-ORO (C28-C35)	21.4	mg/kg	10	1	10/07/21 12:50	10/07/21 20:57		
Surrogates								
n-Tetracosane (S)	73	%	31-152	1	10/07/21 12:50	10/07/21 20:57	646-31-1	CL
p-Terphenyl (S)	81	%	46-130	1	10/07/21 12:50	10/07/21 20:57	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	9.3	1	10/07/21 11:50	10/08/21 15:57		
Surrogates								
4-Bromofluorobenzene (S)	96	%	63-121	1	10/07/21 11:50	10/08/21 15:57	460-00-4	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60382356

Sample: WSW-2 (6') Lab ID: 60382356003 Collected: 10/04/21 11:10 Received: 10/07/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	4.6	1	10/07/21 11:50	10/07/21 23:34	71-43-2	
Ethylbenzene	ND	ug/kg	4.6	1	10/07/21 11:50	10/07/21 23:34	100-41-4	
Toluene	ND	ug/kg	4.6	1	10/07/21 11:50	10/07/21 23:34	108-88-3	
Xylene (Total)	ND	ug/kg	13.9	1	10/07/21 11:50	10/07/21 23:34	1330-20-7	
Surrogates								
Toluene-d8 (S)	104	%	80-120	1	10/07/21 11:50	10/07/21 23:34	2037-26-5	
4-Bromofluorobenzene (S)	100	%	83-119	1	10/07/21 11:50	10/07/21 23:34	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	10/07/21 11:50	10/07/21 23:34	2199-69-1	

Percent Moisture

Analytical Method: ASTM D2974

Pace Analytical Services - Kansas City

Percent Moisture	4.8	%	0.50	1		10/07/21 13:31		
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9056 IC Anions

Analytical Method: EPA 9056 Preparation Method: EPA 9056

Pace Analytical Services - Kansas City

Chloride	374	mg/kg	104	10	10/07/21 14:32	10/07/21 21:55	16887-00-6	
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Sample: NSW-1 Lab ID: 60382356004 Collected: 10/04/21 11:15 Received: 10/07/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	12.3	mg/kg	10.3	1	10/07/21 12:50	10/07/21 21:06		
TPH-ORO (C28-C35)	20.1	mg/kg	10.3	1	10/07/21 12:50	10/07/21 21:06		
Surrogates								
n-Tetracosane (S)	80	%	31-152	1	10/07/21 12:50	10/07/21 21:06	646-31-1	CL
p-Terphenyl (S)	90	%	46-130	1	10/07/21 12:50	10/07/21 21:06	92-94-4	

Gasoline Range Organics

Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B

Pace Analytical Services - Kansas City

TPH-GRO	ND	mg/kg	11.1	1	10/07/21 11:50	10/08/21 16:12		
Surrogates								
4-Bromofluorobenzene (S)	97	%	63-121	1	10/07/21 11:50	10/08/21 16:12	460-00-4	

8260B MSV 5035A Low Level

Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B

Pace Analytical Services - Kansas City

Benzene	ND	ug/kg	5.5	1	10/07/21 11:50	10/07/21 23:54	71-43-2	
Ethylbenzene	ND	ug/kg	5.5	1	10/07/21 11:50	10/07/21 23:54	100-41-4	
Toluene	ND	ug/kg	5.5	1	10/07/21 11:50	10/07/21 23:54	108-88-3	
Xylene (Total)	ND	ug/kg	16.6	1	10/07/21 11:50	10/07/21 23:54	1330-20-7	
Surrogates								
Toluene-d8 (S)	106	%	80-120	1	10/07/21 11:50	10/07/21 23:54	2037-26-5	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60382356

Sample: NSW-1 **Lab ID: 60382356004** Collected: 10/04/21 11:15 Received: 10/07/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Surrogates								
4-Bromofluorobenzene (S)	101	%	83-119	1	10/07/21 11:50	10/07/21 23:54	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	10/07/21 11:50	10/07/21 23:54	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	6.0	%	0.50	1		10/07/21 13:31		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056								
Pace Analytical Services - Kansas City								
Chloride	404	mg/kg	110	10	10/07/21 14:32	10/07/21 22:05	16887-00-6	

Sample: NSW-2 **Lab ID: 60382356005** Collected: 10/04/21 11:20 Received: 10/07/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	38.6	mg/kg	10.6	1	10/07/21 12:50	10/07/21 21:14		
TPH-ORO (C28-C35)	50.6	mg/kg	10.6	1	10/07/21 12:50	10/07/21 21:14		
Surrogates								
n-Tetracosane (S)	86	%	31-152	1	10/07/21 12:50	10/07/21 21:14	646-31-1	CL
p-Terphenyl (S)	90	%	46-130	1	10/07/21 12:50	10/07/21 21:14	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.7	1	10/07/21 11:50	10/08/21 16:27		
Surrogates								
4-Bromofluorobenzene (S)	97	%	63-121	1	10/07/21 11:50	10/08/21 16:27	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.9	1	10/07/21 11:50	10/08/21 00:16	71-43-2	
Ethylbenzene	ND	ug/kg	5.9	1	10/07/21 11:50	10/08/21 00:16	100-41-4	
Toluene	ND	ug/kg	5.9	1	10/07/21 11:50	10/08/21 00:16	108-88-3	
Xylene (Total)	ND	ug/kg	17.6	1	10/07/21 11:50	10/08/21 00:16	1330-20-7	
Surrogates								
Toluene-d8 (S)	110	%	80-120	1	10/07/21 11:50	10/08/21 00:16	2037-26-5	
4-Bromofluorobenzene (S)	99	%	83-119	1	10/07/21 11:50	10/08/21 00:16	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	80-120	1	10/07/21 11:50	10/08/21 00:16	2199-69-1	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60382356

Sample: NSW-2 Lab ID: 60382356005 Collected: 10/04/21 11:20 Received: 10/07/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	7.2	%	0.50	1		10/07/21 13:31		
9056 IC Anions Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	425	mg/kg	107	10	10/07/21 14:32	10/07/21 22:15	16887-00-6	

Sample: NSW-3 Lab ID: 60382356006 Collected: 10/04/21 11:25 Received: 10/07/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	20.2	mg/kg	10.5	1	10/07/21 12:50	10/07/21 21:22		
TPH-ORO (C28-C35)	38.1	mg/kg	10.5	1	10/07/21 12:50	10/07/21 21:22		
Surrogates								
n-Tetracosane (S)	81	%	31-152	1	10/07/21 12:50	10/07/21 21:22	646-31-1	CL
p-Terphenyl (S)	90	%	46-130	1	10/07/21 12:50	10/07/21 21:22	92-94-4	
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	9.5	1	10/07/21 11:50	10/08/21 16:42		
Surrogates								
4-Bromofluorobenzene (S)	95	%	63-121	1	10/07/21 11:50	10/08/21 16:42	460-00-4	
8260B MSV 5035A Low Level Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	4.7	1	10/07/21 11:50	10/08/21 00:36	71-43-2	
Ethylbenzene	ND	ug/kg	4.7	1	10/07/21 11:50	10/08/21 00:36	100-41-4	
Toluene	ND	ug/kg	4.7	1	10/07/21 11:50	10/08/21 00:36	108-88-3	
Xylene (Total)	ND	ug/kg	14.2	1	10/07/21 11:50	10/08/21 00:36	1330-20-7	
Surrogates								
Toluene-d8 (S)	108	%	80-120	1	10/07/21 11:50	10/08/21 00:36	2037-26-5	
4-Bromofluorobenzene (S)	102	%	83-119	1	10/07/21 11:50	10/08/21 00:36	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	10/07/21 11:50	10/08/21 00:36	2199-69-1	
Percent Moisture Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	8.5	%	0.50	1		10/07/21 13:31		
9056 IC Anions Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	300	mg/kg	108	10	10/07/21 14:32	10/07/21 22:24	16887-00-6	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60382356

Sample: NSW-4 Lab ID: 60382356007 Collected: 10/04/21 11:30 Received: 10/07/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	14.6	mg/kg	10.2	1	10/07/21 12:50	10/07/21 21:30		
TPH-ORO (C28-C35)	28.5	mg/kg	10.2	1	10/07/21 12:50	10/07/21 21:30		
Surrogates								
n-Tetracosane (S)	65	%	31-152	1	10/07/21 12:50	10/07/21 21:30	646-31-1	CL
p-Terphenyl (S)	73	%	46-130	1	10/07/21 12:50	10/07/21 21:30	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	10.9	1	10/07/21 11:50	10/08/21 16:57		
Surrogates								
4-Bromofluorobenzene (S)	96	%	63-121	1	10/07/21 11:50	10/08/21 16:57	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.5	1	10/07/21 11:50	10/08/21 00:56	71-43-2	
Ethylbenzene	ND	ug/kg	5.5	1	10/07/21 11:50	10/08/21 00:56	100-41-4	
Toluene	ND	ug/kg	5.5	1	10/07/21 11:50	10/08/21 00:56	108-88-3	
Xylene (Total)	ND	ug/kg	16.4	1	10/07/21 11:50	10/08/21 00:56	1330-20-7	
Surrogates								
Toluene-d8 (S)	102	%	80-120	1	10/07/21 11:50	10/08/21 00:56	2037-26-5	
4-Bromofluorobenzene (S)	99	%	83-119	1	10/07/21 11:50	10/08/21 00:56	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	1	10/07/21 11:50	10/08/21 00:56	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	6.3	%	0.50	1		10/07/21 13:31		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056								
Pace Analytical Services - Kansas City								
Chloride	212	mg/kg	108	10	10/07/21 14:32	10/07/21 22:34	16887-00-6	

Sample: NSW-5 Lab ID: 60382356008 Collected: 10/04/21 11:35 Received: 10/07/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	28.1	mg/kg	10.6	1	10/07/21 12:50	10/07/21 21:38		
TPH-ORO (C28-C35)	42.0	mg/kg	10.6	1	10/07/21 12:50	10/07/21 21:38		
Surrogates								
n-Tetracosane (S)	79	%	31-152	1	10/07/21 12:50	10/07/21 21:38	646-31-1	CL
p-Terphenyl (S)	89	%	46-130	1	10/07/21 12:50	10/07/21 21:38	92-94-4	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60382356

Sample: NSW-5 Lab ID: 60382356008 Collected: 10/04/21 11:35 Received: 10/07/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.8	1	10/07/21 11:50	10/08/21 17:13		
Surrogates								
4-Bromofluorobenzene (S)	96	%	63-121	1	10/07/21 11:50	10/08/21 17:13	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.9	1	10/07/21 11:50	10/08/21 01:17	71-43-2	
Ethylbenzene	ND	ug/kg	5.9	1	10/07/21 11:50	10/08/21 01:17	100-41-4	
Toluene	ND	ug/kg	5.9	1	10/07/21 11:50	10/08/21 01:17	108-88-3	
Xylene (Total)	ND	ug/kg	17.7	1	10/07/21 11:50	10/08/21 01:17	1330-20-7	
Surrogates								
Toluene-d8 (S)	112	%	80-120	1	10/07/21 11:50	10/08/21 01:17	2037-26-5	
4-Bromofluorobenzene (S)	99	%	83-119	1	10/07/21 11:50	10/08/21 01:17	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	80-120	1	10/07/21 11:50	10/08/21 01:17	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	8.3	%	0.50	1		10/07/21 13:31		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	945	mg/kg	110	10	10/07/21 14:32	10/07/21 22:44	16887-00-6	

Sample: NSW-6 Lab ID: 60382356009 Collected: 10/04/21 11:40 Received: 10/07/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	25.1	mg/kg	10.2	1	10/07/21 12:50	10/07/21 21:46		
TPH-ORO (C28-C35)	48.6	mg/kg	10.2	1	10/07/21 12:50	10/07/21 21:46		
Surrogates								
n-Tetracosane (S)	73	%	31-152	1	10/07/21 12:50	10/07/21 21:46	646-31-1	CL
p-Terphenyl (S)	79	%	46-130	1	10/07/21 12:50	10/07/21 21:46	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.1	1	10/07/21 11:50	10/11/21 10:58		
Surrogates								
4-Bromofluorobenzene (S)	96	%	63-121	1	10/07/21 11:50	10/11/21 10:58	460-00-4	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60382356

Sample: NSW-6 Lab ID: 60382356009 Collected: 10/04/21 11:40 Received: 10/07/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.6	1	10/07/21 11:50	10/08/21 01:37	71-43-2	
Ethylbenzene	ND	ug/kg	5.6	1	10/07/21 11:50	10/08/21 01:37	100-41-4	
Toluene	ND	ug/kg	5.6	1	10/07/21 11:50	10/08/21 01:37	108-88-3	
Xylene (Total)	ND	ug/kg	16.7	1	10/07/21 11:50	10/08/21 01:37	1330-20-7	
Surrogates								
Toluene-d8 (S)	106	%	80-120	1	10/07/21 11:50	10/08/21 01:37	2037-26-5	
4-Bromofluorobenzene (S)	95	%	83-119	1	10/07/21 11:50	10/08/21 01:37	460-00-4	
1,2-Dichlorobenzene-d4 (S)	94	%	80-120	1	10/07/21 11:50	10/08/21 01:37	2199-69-1	

Percent Moisture

Analytical Method: ASTM D2974

Pace Analytical Services - Kansas City

Percent Moisture	7.7	%	0.50	1		10/07/21 13:31		
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9056 IC Anions

Analytical Method: EPA 9056 Preparation Method: EPA 9056

Pace Analytical Services - Kansas City

Chloride	740	mg/kg	108	10	10/07/21 14:32	10/07/21 22:54	16887-00-6	
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Sample: NSW-7 Lab ID: 60382356010 Collected: 10/04/21 11:45 Received: 10/07/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	27.5	mg/kg	10.9	1	10/07/21 12:50	10/07/21 21:55		
TPH-ORO (C28-C35)	52.6	mg/kg	10.9	1	10/07/21 12:50	10/07/21 21:55		
Surrogates								
n-Tetracosane (S)	77	%	31-152	1	10/07/21 12:50	10/07/21 21:55	646-31-1	CL
p-Terphenyl (S)	83	%	46-130	1	10/07/21 12:50	10/07/21 21:55	92-94-4	

Gasoline Range Organics

Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B

Pace Analytical Services - Kansas City

TPH-GRO	ND	mg/kg	11.8	1	10/07/21 11:50	10/11/21 11:13		
Surrogates								
4-Bromofluorobenzene (S)	98	%	63-121	1	10/07/21 11:50	10/11/21 11:13	460-00-4	

8260B MSV 5035A Low Level

Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B

Pace Analytical Services - Kansas City

Benzene	ND	ug/kg	5.9	1	10/07/21 11:50	10/08/21 01:58	71-43-2	
Ethylbenzene	ND	ug/kg	5.9	1	10/07/21 11:50	10/08/21 01:58	100-41-4	
Toluene	ND	ug/kg	5.9	1	10/07/21 11:50	10/08/21 01:58	108-88-3	
Xylene (Total)	ND	ug/kg	17.6	1	10/07/21 11:50	10/08/21 01:58	1330-20-7	
Surrogates								
Toluene-d8 (S)	108	%	80-120	1	10/07/21 11:50	10/08/21 01:58	2037-26-5	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60382356

Sample: NSW-7 Lab ID: 60382356010 Collected: 10/04/21 11:45 Received: 10/07/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Surrogates								
4-Bromofluorobenzene (S)	98	%	83-119	1	10/07/21 11:50	10/08/21 01:58	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	10/07/21 11:50	10/08/21 01:58	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	9.6	%	0.50	1		10/07/21 13:32		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	2370	mg/kg	222	20	10/07/21 14:32	10/08/21 10:37	16887-00-6	

Sample: NSW-7 (6') Lab ID: 60382356011 Collected: 10/06/21 09:00 Received: 10/07/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	22.8	mg/kg	10.6	1	10/07/21 12:50	10/07/21 22:03		
TPH-ORO (C28-C35)	45.9	mg/kg	10.6	1	10/07/21 12:50	10/07/21 22:03		
Surrogates								
n-Tetracosane (S)	83	%	31-152	1	10/07/21 12:50	10/07/21 22:03	646-31-1	CL
p-Terphenyl (S)	93	%	46-130	1	10/07/21 12:50	10/07/21 22:03	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.0	1	10/07/21 11:50	10/11/21 11:28		
Surrogates								
4-Bromofluorobenzene (S)	96	%	63-121	1	10/07/21 11:50	10/11/21 11:28	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.5	1	10/07/21 11:50	10/08/21 02:19	71-43-2	
Ethylbenzene	ND	ug/kg	5.5	1	10/07/21 11:50	10/08/21 02:19	100-41-4	
Toluene	ND	ug/kg	5.5	1	10/07/21 11:50	10/08/21 02:19	108-88-3	
Xylene (Total)	ND	ug/kg	16.5	1	10/07/21 11:50	10/08/21 02:19	1330-20-7	
Surrogates								
Toluene-d8 (S)	110	%	80-120	1	10/07/21 11:50	10/08/21 02:19	2037-26-5	
4-Bromofluorobenzene (S)	99	%	83-119	1	10/07/21 11:50	10/08/21 02:19	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	1	10/07/21 11:50	10/08/21 02:19	2199-69-1	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60382356

Sample: NSW-7 (6') Lab ID: 60382356011 Collected: 10/06/21 09:00 Received: 10/07/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	7.4	%	0.50	1		10/07/21 13:32		
9056 IC Anions Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	342	mg/kg	110	10	10/07/21 14:32	10/08/21 09:50	16887-00-6	

Sample: WSW-3 Lab ID: 60382356012 Collected: 10/06/21 09:10 Received: 10/07/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	13.2	mg/kg	10.1	1	10/07/21 12:50	10/07/21 22:11		
TPH-ORO (C28-C35)	27.2	mg/kg	10.1	1	10/07/21 12:50	10/07/21 22:11		
Surrogates								
n-Tetracosane (S)	65	%	31-152	1	10/07/21 12:50	10/07/21 22:11	646-31-1	CL
p-Terphenyl (S)	71	%	46-130	1	10/07/21 12:50	10/07/21 22:11	92-94-4	
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	10.3	1	10/07/21 11:50	10/11/21 11:43		
Surrogates								
4-Bromofluorobenzene (S)	95	%	63-121	1	10/07/21 11:50	10/11/21 11:43	460-00-4	
8260B MSV 5035A Low Level Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.2	1	10/07/21 11:50	10/08/21 02:39	71-43-2	
Ethylbenzene	ND	ug/kg	5.2	1	10/07/21 11:50	10/08/21 02:39	100-41-4	
Toluene	ND	ug/kg	5.2	1	10/07/21 11:50	10/08/21 02:39	108-88-3	
Xylene (Total)	ND	ug/kg	15.5	1	10/07/21 11:50	10/08/21 02:39	1330-20-7	
Surrogates								
Toluene-d8 (S)	111	%	80-120	1	10/07/21 11:50	10/08/21 02:39	2037-26-5	
4-Bromofluorobenzene (S)	100	%	83-119	1	10/07/21 11:50	10/08/21 02:39	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	10/07/21 11:50	10/08/21 02:39	2199-69-1	
Percent Moisture Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	4.5	%	0.50	1		10/07/21 13:32		
9056 IC Anions Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	1160	mg/kg	102	10	10/07/21 14:32	10/08/21 09:02	16887-00-6	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60382356

Sample: WSW-3 (4') Lab ID: 60382356013 Collected: 10/06/21 09:20 Received: 10/07/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	24.0	mg/kg	10.1	1	10/07/21 12:50	10/07/21 22:19		
TPH-ORO (C28-C35)	36.8	mg/kg	10.1	1	10/07/21 12:50	10/07/21 22:19		
Surrogates								
n-Tetracosane (S)	77	%	31-152	1	10/07/21 12:50	10/07/21 22:19	646-31-1	CL
p-Terphenyl (S)	86	%	46-130	1	10/07/21 12:50	10/07/21 22:19	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	9.6	1	10/07/21 11:50	10/11/21 11:58		
Surrogates								
4-Bromofluorobenzene (S)	96	%	63-121	1	10/07/21 11:50	10/11/21 11:58	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	4.8	1	10/07/21 11:50	10/08/21 03:00	71-43-2	
Ethylbenzene	ND	ug/kg	4.8	1	10/07/21 11:50	10/08/21 03:00	100-41-4	
Toluene	ND	ug/kg	4.8	1	10/07/21 11:50	10/08/21 03:00	108-88-3	
Xylene (Total)	ND	ug/kg	14.4	1	10/07/21 11:50	10/08/21 03:00	1330-20-7	
Surrogates								
Toluene-d8 (S)	110	%	80-120	1	10/07/21 11:50	10/08/21 03:00	2037-26-5	
4-Bromofluorobenzene (S)	100	%	83-119	1	10/07/21 11:50	10/08/21 03:00	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1	10/07/21 11:50	10/08/21 03:00	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	2.3	%	0.50	1		10/07/21 13:32		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056								
Pace Analytical Services - Kansas City								
Chloride	ND	mg/kg	99.2	10	10/07/21 14:32	10/08/21 09:14	16887-00-6	

Sample: WSW-4 Lab ID: 60382356014 Collected: 10/06/21 09:30 Received: 10/07/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	14.2	mg/kg	9.7	1	10/07/21 12:50	10/07/21 22:27		
TPH-ORO (C28-C35)	26.6	mg/kg	9.7	1	10/07/21 12:50	10/07/21 22:27		
Surrogates								
n-Tetracosane (S)	72	%	31-152	1	10/07/21 12:50	10/07/21 22:27	646-31-1	CL
p-Terphenyl (S)	80	%	46-130	1	10/07/21 12:50	10/07/21 22:27	92-94-4	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60382356

Sample: WSW-4 **Lab ID: 60382356014** Collected: 10/06/21 09:30 Received: 10/07/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	10.2	1	10/07/21 11:50	10/11/21 12:14		
Surrogates								
4-Bromofluorobenzene (S)	96	%	63-121	1	10/07/21 11:50	10/11/21 12:14	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.1	1	10/07/21 11:50	10/08/21 03:20	71-43-2	
Ethylbenzene	ND	ug/kg	5.1	1	10/07/21 11:50	10/08/21 03:20	100-41-4	
Toluene	ND	ug/kg	5.1	1	10/07/21 11:50	10/08/21 03:20	108-88-3	
Xylene (Total)	ND	ug/kg	15.3	1	10/07/21 11:50	10/08/21 03:20	1330-20-7	
Surrogates								
Toluene-d8 (S)	103	%	80-120	1	10/07/21 11:50	10/08/21 03:20	2037-26-5	
4-Bromofluorobenzene (S)	98	%	83-119	1	10/07/21 11:50	10/08/21 03:20	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	10/07/21 11:50	10/08/21 03:20	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	2.5	%	0.50	1		10/07/21 13:32		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	322	mg/kg	106	10	10/07/21 14:32	10/08/21 09:26	16887-00-6	

Sample: SSW-28 **Lab ID: 60382356015** Collected: 10/06/21 09:40 Received: 10/07/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	19.1	mg/kg	10	1	10/07/21 12:50	10/07/21 22:35		
TPH-ORO (C28-C35)	31.2	mg/kg	10	1	10/07/21 12:50	10/07/21 22:35		
Surrogates								
n-Tetracosane (S)	83	%	31-152	1	10/07/21 12:50	10/07/21 22:35	646-31-1	CL
p-Terphenyl (S)	90	%	46-130	1	10/07/21 12:50	10/07/21 22:35	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	10.5	1	10/07/21 11:50	10/11/21 12:29		
Surrogates								
4-Bromofluorobenzene (S)	98	%	63-121	1	10/07/21 11:50	10/11/21 12:29	460-00-4	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60382356

Sample: SSW-28 Lab ID: 60382356015 Collected: 10/06/21 09:40 Received: 10/07/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.2	1	10/07/21 11:50	10/08/21 03:40	71-43-2	
Ethylbenzene	ND	ug/kg	5.2	1	10/07/21 11:50	10/08/21 03:40	100-41-4	
Toluene	ND	ug/kg	5.2	1	10/07/21 11:50	10/08/21 03:40	108-88-3	
Xylene (Total)	ND	ug/kg	15.7	1	10/07/21 11:50	10/08/21 03:40	1330-20-7	
Surrogates								
Toluene-d8 (S)	107	%	80-120	1	10/07/21 11:50	10/08/21 03:40	2037-26-5	
4-Bromofluorobenzene (S)	99	%	83-119	1	10/07/21 11:50	10/08/21 03:40	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	10/07/21 11:50	10/08/21 03:40	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	3.6	%	0.50	1		10/07/21 13:32		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056								
Pace Analytical Services - Kansas City								
Chloride	377	mg/kg	105	10	10/07/21 14:32	10/08/21 09:38	16887-00-6	

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QUALITY CONTROL DATA

Project: VGEU 2801-02

Pace Project No.: 60382356

QC Batch:	748283	Analysis Method:	EPA 8015B
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	Gasoline Range Organics
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60382356001, 60382356002, 60382356003, 60382356004, 60382356005, 60382356006, 60382356007, 60382356008, 60382356009, 60382356010, 60382356011, 60382356012, 60382356013, 60382356014, 60382356015		

METHOD BLANK: 2996410

Matrix: Solid

Associated Lab Samples: 60382356001, 60382356002, 60382356003, 60382356004, 60382356005, 60382356006, 60382356007, 60382356008, 60382356009, 60382356010, 60382356011, 60382356012, 60382356013, 60382356014, 60382356015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	10/08/21 14:41	
4-Bromofluorobenzene (S)	%	94	63-121	10/08/21 14:41	

METHOD BLANK: 2997862

Matrix: Solid

Associated Lab Samples: 60382356001, 60382356002, 60382356003, 60382356004, 60382356005, 60382356006, 60382356007, 60382356008, 60382356009, 60382356010, 60382356011, 60382356012, 60382356013, 60382356014, 60382356015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	10/11/21 10:43	
4-Bromofluorobenzene (S)	%	96	63-121	10/11/21 10:43	

LABORATORY CONTROL SAMPLE: 2996411

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	46.9	94	71-107	
4-Bromofluorobenzene (S)	%			99	63-121	

LABORATORY CONTROL SAMPLE: 2997863

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	51.8	104	71-107	
4-Bromofluorobenzene (S)	%			100	63-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2996412 2996413

Parameter	Units	60382356001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-GRO	mg/kg	ND	54.1	54.1	55.7	52.8	101	96	29-143	5	26	
4-Bromofluorobenzene (S)	%						99	100	63-121			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: VGEU 2801-02

Pace Project No.: 60382356

QC Batch:	748166	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	8260B MSV 5035A Low Level
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60382356001, 60382356002, 60382356003, 60382356004, 60382356005, 60382356006, 60382356007, 60382356008, 60382356009, 60382356010, 60382356011, 60382356012, 60382356013, 60382356014, 60382356015		

METHOD BLANK:	2995991	Matrix:	Solid
Associated Lab Samples:	60382356001, 60382356002, 60382356003, 60382356004, 60382356005, 60382356006, 60382356007, 60382356008, 60382356009, 60382356010, 60382356011, 60382356012, 60382356013, 60382356014, 60382356015		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	10/07/21 22:32	
Ethylbenzene	ug/kg	ND	5.0	10/07/21 22:32	
Toluene	ug/kg	ND	5.0	10/07/21 22:32	
Xylene (Total)	ug/kg	ND	15.0	10/07/21 22:32	
1,2-Dichlorobenzene-d4 (S)	%	98	80-120	10/07/21 22:32	
4-Bromofluorobenzene (S)	%	101	83-119	10/07/21 22:32	
Toluene-d8 (S)	%	114	80-120	10/07/21 22:32	

LABORATORY CONTROL SAMPLE: 2995992

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	1250	1270	101	67-126	
Ethylbenzene	ug/kg	1250	1170	94	69-127	
Toluene	ug/kg	1250	1170	94	80-118	
Xylene (Total)	ug/kg	3750	3460	92	69-130	
1,2-Dichlorobenzene-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			99	83-119	
Toluene-d8 (S)	%			98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2995993 2995994

Parameter	Units	60382356001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	1350	1350	527	595	39	44	17-134	12	53	
Ethylbenzene	ug/kg	ND	1350	1350	477	544	35	40	10-137	13	60	
Toluene	ug/kg	ND	1350	1350	466	539	34	40	13-131	14	60	
Xylene (Total)	ug/kg	ND	4060	4060	1450	1640	36	40	10-137	13	58	
1,2-Dichlorobenzene-d4 (S)	%						99	100	80-120			
4-Bromofluorobenzene (S)	%						101	99	83-119			
Toluene-d8 (S)	%						100	99	80-120			

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QUALITY CONTROL DATA

Project: VGEU 2801-02

Pace Project No.: 60382356

QC Batch:	748163	Analysis Method:	EPA 8015B
QC Batch Method:	EPA 3546	Analysis Description:	EPA 8015B
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60382356001, 60382356002, 60382356003, 60382356004, 60382356005, 60382356006, 60382356007, 60382356008, 60382356009, 60382356010, 60382356011, 60382356012, 60382356013, 60382356014, 60382356015		

METHOD BLANK: 2995985 Matrix: Solid

Associated Lab Samples: 60382356001, 60382356002, 60382356003, 60382356004, 60382356005, 60382356006, 60382356007, 60382356008, 60382356009, 60382356010, 60382356011, 60382356012, 60382356013, 60382356014, 60382356015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO (C10-C28)	mg/kg	ND	9.9	10/07/21 19:52	
TPH-ORO (C28-C35)	mg/kg	ND	9.9	10/07/21 19:52	
n-Tetracosane (S)	%	77	31-152	10/07/21 19:52	
p-Terphenyl (S)	%	88	46-130	10/07/21 19:52	

LABORATORY CONTROL SAMPLE: 2995986

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO (C10-C28)	mg/kg	78.9	69.8	88	74-124	
n-Tetracosane (S)	%			87	31-152	
p-Terphenyl (S)	%			97	46-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2995987 2995988

Parameter	Units	60382356001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-DRO (C10-C28)	mg/kg	11.1	85.5	89.2	81.3	78.5	82	76	30-130	4	35	
n-Tetracosane (S)	%						73	64	31-152			CL
p-Terphenyl (S)	%						80	69	46-130			

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QUALITY CONTROL DATA

Project: VGEU 2801-02

Pace Project No.: 60382356

QC Batch:	748204	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60382356001, 60382356002, 60382356003, 60382356004, 60382356005, 60382356006, 60382356007, 60382356008, 60382356009, 60382356010, 60382356011, 60382356012, 60382356013, 60382356014, 60382356015		

METHOD BLANK: 2996139

Matrix: Solid

Associated Lab Samples: 60382356001, 60382356002, 60382356003, 60382356004, 60382356005, 60382356006, 60382356007, 60382356008, 60382356009, 60382356010, 60382356011, 60382356012, 60382356013, 60382356014, 60382356015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	10/07/21 13:30	

SAMPLE DUPLICATE: 2996140

Parameter	Units	60382289001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.2	12.4	2	20	

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QUALITY CONTROL DATA

Project: VGEU 2801-02

Pace Project No.: 60382356

QC Batch:	748199	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60382356001, 60382356002, 60382356003, 60382356004, 60382356005, 60382356006, 60382356007, 60382356008, 60382356009, 60382356010, 60382356011, 60382356012, 60382356013, 60382356014, 60382356015		

METHOD BLANK: 2996094

Matrix: Solid

Associated Lab Samples: 60382356001, 60382356002, 60382356003, 60382356004, 60382356005, 60382356006, 60382356007, 60382356008, 60382356009, 60382356010, 60382356011, 60382356012, 60382356013, 60382356014, 60382356015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	100	10/07/21 20:26	

LABORATORY CONTROL SAMPLE: 2996095

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	500	459	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2996096 2996097

Parameter	Units	60382356001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/kg	1520	526	543	2190	2310	128	147	80-120	6	15	E,M1

SAMPLE DUPLICATE: 2996098

Parameter	Units	60382356002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/kg	368	406	10	15	

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QUALIFIERS

Project: VGEU 2801-02

Pace Project No.: 60382356

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CL The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: VGEU 2801-02
Pace Project No.: 60382356

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60382356001	WSW-1	EPA 3546	748163	EPA 8015B	748279
60382356002	WSW-2	EPA 3546	748163	EPA 8015B	748279
60382356003	WSW-2 (6')	EPA 3546	748163	EPA 8015B	748279
60382356004	NSW-1	EPA 3546	748163	EPA 8015B	748279
60382356005	NSW-2	EPA 3546	748163	EPA 8015B	748279
60382356006	NSW-3	EPA 3546	748163	EPA 8015B	748279
60382356007	NSW-4	EPA 3546	748163	EPA 8015B	748279
60382356008	NSW-5	EPA 3546	748163	EPA 8015B	748279
60382356009	NSW-6	EPA 3546	748163	EPA 8015B	748279
60382356010	NSW-7	EPA 3546	748163	EPA 8015B	748279
60382356011	NSW-7 (6')	EPA 3546	748163	EPA 8015B	748279
60382356012	WSW-3	EPA 3546	748163	EPA 8015B	748279
60382356013	WSW-3 (4')	EPA 3546	748163	EPA 8015B	748279
60382356014	WSW-4	EPA 3546	748163	EPA 8015B	748279
60382356015	SSW-28	EPA 3546	748163	EPA 8015B	748279
60382356001	WSW-1	EPA 5035A/5030B	748283	EPA 8015B	748285
60382356002	WSW-2	EPA 5035A/5030B	748283	EPA 8015B	748285
60382356003	WSW-2 (6')	EPA 5035A/5030B	748283	EPA 8015B	748285
60382356004	NSW-1	EPA 5035A/5030B	748283	EPA 8015B	748285
60382356005	NSW-2	EPA 5035A/5030B	748283	EPA 8015B	748285
60382356006	NSW-3	EPA 5035A/5030B	748283	EPA 8015B	748285
60382356007	NSW-4	EPA 5035A/5030B	748283	EPA 8015B	748285
60382356008	NSW-5	EPA 5035A/5030B	748283	EPA 8015B	748285
60382356009	NSW-6	EPA 5035A/5030B	748283	EPA 8015B	748589
60382356010	NSW-7	EPA 5035A/5030B	748283	EPA 8015B	748589
60382356011	NSW-7 (6')	EPA 5035A/5030B	748283	EPA 8015B	748589
60382356012	WSW-3	EPA 5035A/5030B	748283	EPA 8015B	748589
60382356013	WSW-3 (4')	EPA 5035A/5030B	748283	EPA 8015B	748589
60382356014	WSW-4	EPA 5035A/5030B	748283	EPA 8015B	748589
60382356015	SSW-28	EPA 5035A/5030B	748283	EPA 8015B	748589
60382356001	WSW-1	EPA 5035A/5030B	748166	EPA 8260B	748205
60382356002	WSW-2	EPA 5035A/5030B	748166	EPA 8260B	748205
60382356003	WSW-2 (6')	EPA 5035A/5030B	748166	EPA 8260B	748205
60382356004	NSW-1	EPA 5035A/5030B	748166	EPA 8260B	748205
60382356005	NSW-2	EPA 5035A/5030B	748166	EPA 8260B	748205
60382356006	NSW-3	EPA 5035A/5030B	748166	EPA 8260B	748205
60382356007	NSW-4	EPA 5035A/5030B	748166	EPA 8260B	748205
60382356008	NSW-5	EPA 5035A/5030B	748166	EPA 8260B	748205
60382356009	NSW-6	EPA 5035A/5030B	748166	EPA 8260B	748205
60382356010	NSW-7	EPA 5035A/5030B	748166	EPA 8260B	748205
60382356011	NSW-7 (6')	EPA 5035A/5030B	748166	EPA 8260B	748205
60382356012	WSW-3	EPA 5035A/5030B	748166	EPA 8260B	748205
60382356013	WSW-3 (4')	EPA 5035A/5030B	748166	EPA 8260B	748205
60382356014	WSW-4	EPA 5035A/5030B	748166	EPA 8260B	748205
60382356015	SSW-28	EPA 5035A/5030B	748166	EPA 8260B	748205
60382356001	WSW-1	ASTM D2974	748204		
60382356002	WSW-2	ASTM D2974	748204		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: VGEU 2801-02

Pace Project No.: 60382356

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60382356003	WSW-2 (6')	ASTM D2974	748204		
60382356004	NSW-1	ASTM D2974	748204		
60382356005	NSW-2	ASTM D2974	748204		
60382356006	NSW-3	ASTM D2974	748204		
60382356007	NSW-4	ASTM D2974	748204		
60382356008	NSW-5	ASTM D2974	748204		
60382356009	NSW-6	ASTM D2974	748204		
60382356010	NSW-7	ASTM D2974	748204		
60382356011	NSW-7 (6')	ASTM D2974	748204		
60382356012	WSW-3	ASTM D2974	748204		
60382356013	WSW-3 (4')	ASTM D2974	748204		
60382356014	WSW-4	ASTM D2974	748204		
60382356015	SSW-28	ASTM D2974	748204		
60382356001	WSW-1	EPA 9056	748199	EPA 9056	748243
60382356002	WSW-2	EPA 9056	748199	EPA 9056	748243
60382356003	WSW-2 (6')	EPA 9056	748199	EPA 9056	748243
60382356004	NSW-1	EPA 9056	748199	EPA 9056	748243
60382356005	NSW-2	EPA 9056	748199	EPA 9056	748243
60382356006	NSW-3	EPA 9056	748199	EPA 9056	748243
60382356007	NSW-4	EPA 9056	748199	EPA 9056	748243
60382356008	NSW-5	EPA 9056	748199	EPA 9056	748243
60382356009	NSW-6	EPA 9056	748199	EPA 9056	748243
60382356010	NSW-7	EPA 9056	748199	EPA 9056	748243
60382356011	NSW-7 (6')	EPA 9056	748199	EPA 9056	748243
60382356012	WSW-3	EPA 9056	748199	EPA 9056	748243
60382356013	WSW-3 (4')	EPA 9056	748199	EPA 9056	748243
60382356014	WSW-4	EPA 9056	748199	EPA 9056	748243
60382356015	SSW-28	EPA 9056	748199	EPA 9056	748243

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Sample Condition Upon Receipt

WO#: 60382356

Client Name: TetraTechCourier: FedEx ☒ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☐ Other ☐Tracking #: 5002 DVS3 3253 Pace Shipping Label Used? Yes ☐ No ☒Custody Seal on Cooler/Box Present: Yes ☐ No ☒ Seals intact: Yes ☐ No ☐Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Other 25LCThermometer Used: T290 Type of Ice: Wet Blue ☐ None ☐Cooler Temperature (°C): As-read 1.4 Corr. Factor -0.3 Corrected 1.1Date and initials of person examining contents: 100721MLK

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>1 day</u>
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: <u>SL</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Samples from USDA Regulated Area: State: <u>NM</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/ Resolution:

Copy COC to Client? Y / N

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

Project Manager Review:

Date:



Tetra Tech, Inc.

901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-

6058256

Client Name: Conoco Phillips

Site Manager: Christian Lull

Project Name: VGEU 2801-02

Contact Info:
Email: christian.llull@tetrattech.com
Phone: (512) 338-1667

Project Location:
Lea County, New Mexico

Project #: 212C-MD-02099

Accounts Payable

901 West Wall Street, Suite 100 Midland, Texas 79701

Receiving Laboratory: Pace Analytical

Sampler Signature: John Thurston

Comments: COPETRA Acctnum

80

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)		
		YEAR: 2021		DATE	TIME	WATER	SOIL	HCL	HNO ₃			ICE	NONE
	WSW-1	10/4/2021	11:00		X				X			1	N
	WSW-2	10/4/2021	11:05			X			X			1	N
	WSW-2 (6')	10/4/2021	11:10		X				X			1	N
	NSW-1	10/4/2021	11:15			X			X			1	N
	NSW-2	10/4/2021	11:20			X			X			1	N
	NSW-3	10/4/2021	11:25		X				X			1	N
	NSW-4	10/4/2021	11:30		X				X			1	N
	NSW-5	10/4/2021	11:35			X			X			1	N
	NSW-6	10/4/2021	11:40		X				X			1	N
	NSW-7	10/4/2021	11:45		X				X			1	N

Relinquished by:

Date: _____ Time: _____

Received by:

	Date:	Time:
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LAB USE ONLY	
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DE 11-010

MARKS:	Standard
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MARKS:							
<input type="checkbox"/>	Standard						
<input checked="" type="checkbox"/> X	RUSH: Same Day	24 hr.	48 hr.	72 hr.			

~~Relinquished by:~~

Date: _____ Time: _____

Received by:

Date: 1/21/00

Sample Temperature

☒ RUSH: Same Day 24 hr

☒ RUSH: Same Day 24 hr. 48 hr.

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

Relinquished by:

Date: _____ Time: _____

Received by

2-4-1

ORIGINAL COPY

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of 30



Tetra Tech, Inc.

901 West Wall Street, Suite 100
Midland, Texas 79701
(432) 682-4559
Tel
(432) 682-4559
Fax

6058255-6

Client Name: Conoco Phillips

Site Manager: Christian Lull

Project Name: VGEU 2801-02

Contact Info:
Email: christian.lull@tetratech.com
Phone: (512) 338-1667

Project Location:
(county, state)

Project #: 212C-MD-02099

Accounts Payable

901 West Wall Street, Suite 100 Midland, Texas 79701

Receiving Laboratory: Pace Analytical

Sampler Signature:

Comments: COP TETRA Accctnum

Comments: COP TETRA Accctnum

[illegible]

Relinquished by:

Date: _____ Time: _____

Received by:

Date: Time:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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REMARKS:

Relinquished by:

Date: 6/21 Time: 15

Received by
M. Keru

Date: 1-7/21 Time: 08

LAB USE ONLY

☐ Stand

Relinquished by-

Date: _____ Time: _____

Received by:

Date: _____ Time: _____

☐ Rush to order

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Circle) HAND DELIVERED FEDEX UPS Tracking #:



9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

October 15, 2021

Christian Lull
Tetra Tech-Houston
8911 N Capital of Texas Hwy.
Bldg. 2, Suite 2310
Austin, TX 78759

RE: Project: VGEU 2801-02
Pace Project No.: 60382955

Dear Christian Lull:

Enclosed are the analytical results for sample(s) received by the laboratory on October 13, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nolie Wood
nolie.wood@pacelabs.com
1(913)563-1401
Project Manager

Enclosures

cc: Sam Abbott, Tetra Tech, Inc
Ryan Dickerson, Tetra Tech Houston TX
John Thurston, Tetra Tech-Houston TX



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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: VGEU 2801-02

Pace Project No.: 60382955

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 20-020-0

Arkansas Drinking Water

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212020-2

Oklahoma Certification #: 9205/9935

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-19-12

Utah Certification #: KS000212019-9

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

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SAMPLE SUMMARY

Project: VGEU 2801-02

Pace Project No.: 60382955

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60382955001	FS-1	Solid	10/07/21 11:00	10/13/21 09:15
60382955002	FS-2	Solid	10/07/21 11:05	10/13/21 09:15
60382955003	FS-3	Solid	10/07/21 11:10	10/13/21 09:15
60382955004	FS-4	Solid	10/07/21 11:15	10/13/21 09:15
60382955005	FS-5	Solid	10/07/21 11:20	10/13/21 09:15
60382955006	FS-6	Solid	10/07/21 11:25	10/13/21 09:15
60382955007	FS-7	Solid	10/07/21 11:30	10/13/21 09:15
60382955008	FS-9	Solid	10/11/21 09:00	10/13/21 09:15
60382955009	FS-10	Solid	10/11/21 09:07	10/13/21 09:15
60382955010	FS-11	Solid	10/11/21 09:15	10/13/21 09:15
60382955011	WSW-1 (1')	Solid	10/11/21 09:22	10/13/21 09:15
60382955012	NSW-5 (6')	Solid	10/11/21 09:27	10/13/21 09:15
60382955013	NSW-6 (6')	Solid	10/11/21 09:35	10/13/21 09:15
60382955014	SSW-27	Solid	10/11/21 09:45	10/13/21 09:15

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SAMPLE ANALYTE COUNT

Project: VGEU 2801-02

Pace Project No.: 60382955

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60382955001	FS-1	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60382955002	FS-2	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60382955003	FS-3	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60382955004	FS-4	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60382955005	FS-5	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60382955006	FS-6	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60382955007	FS-7	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60382955008	FS-9	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K

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SAMPLE ANALYTE COUNT

Project: VGEU 2801-02
Pace Project No.: 60382955

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60382955009	FS-10	EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
60382955010	FS-11	EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
60382955011	WSW-1 (1')	EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
60382955012	NSW-5 (6')	ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60382955013	NSW-6 (6')	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
60382955014	SSW-27	EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60382955

Sample: FS-1 **Lab ID: 60382955001** Collected: 10/07/21 11:00 Received: 10/13/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	1120	mg/kg	104	10	10/13/21 23:07	10/14/21 09:38		M1
TPH-ORO (C28-C35)	1070	mg/kg	104	10	10/13/21 23:07	10/14/21 09:38		
Surrogates								
n-Tetracosane (S)	0	%	31-152	10	10/13/21 23:07	10/14/21 09:38	646-31-1	S4
p-Terphenyl (S)	0	%	46-130	10	10/13/21 23:07	10/14/21 09:38	92-94-4	S4
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	10.5	1	10/13/21 13:38	10/13/21 20:38		
Surrogates								
4-Bromofluorobenzene (S)	92	%	63-121	1	10/13/21 13:38	10/13/21 20:38	460-00-4	
8260B MSV 5035A Low Level Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.3	1	10/13/21 13:50	10/15/21 10:12	71-43-2	
Ethylbenzene	ND	ug/kg	5.3	1	10/13/21 13:50	10/15/21 10:12	100-41-4	
Toluene	ND	ug/kg	5.3	1	10/13/21 13:50	10/15/21 10:12	108-88-3	
Xylene (Total)	ND	ug/kg	15.8	1	10/13/21 13:50	10/15/21 10:12	1330-20-7	
Surrogates								
Toluene-d8 (S)	101	%	80-120	1	10/13/21 13:50	10/15/21 10:12	2037-26-5	
4-Bromofluorobenzene (S)	103	%	83-119	1	10/13/21 13:50	10/15/21 10:12	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	1	10/13/21 13:50	10/15/21 10:12	2199-69-1	
Percent Moisture Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	5.2	%	0.50	1		10/13/21 14:07		
9056 IC Anions Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	642	mg/kg	105	10	10/13/21 14:58	10/14/21 09:21	16887-00-6	

Sample: FS-2 **Lab ID: 60382955002** Collected: 10/07/21 11:05 Received: 10/13/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.6	1	10/13/21 23:07	10/14/21 13:09		
TPH-ORO (C28-C35)	ND	mg/kg	10.6	1	10/13/21 23:07	10/14/21 13:09		
Surrogates								
n-Tetracosane (S)	82	%	31-152	1	10/13/21 23:07	10/14/21 13:09	646-31-1	
p-Terphenyl (S)	79	%	46-130	1	10/13/21 23:07	10/14/21 13:09	92-94-4	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60382955

Sample: FS-2 Lab ID: 60382955002 Collected: 10/07/21 11:05 Received: 10/13/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	12.3	1	10/13/21 13:38	10/13/21 20:54		
Surrogates								
4-Bromofluorobenzene (S)	94	%	63-121	1	10/13/21 13:38	10/13/21 20:54	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	6.2	1	10/13/21 13:50	10/15/21 10:33	71-43-2	
Ethylbenzene	ND	ug/kg	6.2	1	10/13/21 13:50	10/15/21 10:33	100-41-4	
Toluene	ND	ug/kg	6.2	1	10/13/21 13:50	10/15/21 10:33	108-88-3	
Xylene (Total)	ND	ug/kg	18.5	1	10/13/21 13:50	10/15/21 10:33	1330-20-7	
Surrogates								
Toluene-d8 (S)	104	%	80-120	1	10/13/21 13:50	10/15/21 10:33	2037-26-5	
4-Bromofluorobenzene (S)	102	%	83-119	1	10/13/21 13:50	10/15/21 10:33	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1	10/13/21 13:50	10/15/21 10:33	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	11.0	%	0.50	1		10/13/21 14:07		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	3420	mg/kg	554	50	10/13/21 14:58	10/14/21 13:06	16887-00-6	

Sample: FS-3 Lab ID: 60382955003 Collected: 10/07/21 11:10 Received: 10/13/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.9	1	10/13/21 23:07	10/14/21 13:17		
TPH-ORO (C28-C35)	ND	mg/kg	10.9	1	10/13/21 23:07	10/14/21 13:17		
Surrogates								
n-Tetracosane (S)	91	%	31-152	1	10/13/21 23:07	10/14/21 13:17	646-31-1	
p-Terphenyl (S)	83	%	46-130	1	10/13/21 23:07	10/14/21 13:17	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.0	1	10/13/21 13:38	10/13/21 21:09		
Surrogates								
4-Bromofluorobenzene (S)	95	%	63-121	1	10/13/21 13:38	10/13/21 21:09	460-00-4	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60382955

Sample: FS-3 Lab ID: 60382955003 Collected: 10/07/21 11:10 Received: 10/13/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	74.0	1	10/13/21 13:50	10/15/21 10:54	71-43-2	
Ethylbenzene	ND	ug/kg	74.0	1	10/13/21 13:50	10/15/21 10:54	100-41-4	
Toluene	ND	ug/kg	74.0	1	10/13/21 13:50	10/15/21 10:54	108-88-3	
Xylene (Total)	ND	ug/kg	222	1	10/13/21 13:50	10/15/21 10:54	1330-20-7	
Surrogates								
Toluene-d8 (S)	107	%	80-120	1	10/13/21 13:50	10/15/21 10:54	2037-26-5	
4-Bromofluorobenzene (S)	102	%	83-119	1	10/13/21 13:50	10/15/21 10:54	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	10/13/21 13:50	10/15/21 10:54	2199-69-1	

Percent Moisture

Analytical Method: ASTM D2974

Pace Analytical Services - Kansas City

Percent Moisture	8.1	%	0.50	1		10/13/21 14:07		
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9056 IC Anions

Analytical Method: EPA 9056 Preparation Method: EPA 9056

Pace Analytical Services - Kansas City

Chloride	7090	mg/kg	1090	100	10/13/21 14:58	10/14/21 13:18	16887-00-6	
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Sample: FS-4 Lab ID: 60382955004 Collected: 10/07/21 11:15 Received: 10/13/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.3	1	10/13/21 23:07	10/14/21 10:19		
TPH-ORO (C28-C35)	ND	mg/kg	10.3	1	10/13/21 23:07	10/14/21 10:19		
Surrogates								
n-Tetracosane (S)	100	%	31-152	1	10/13/21 23:07	10/14/21 10:19	646-31-1	
p-Terphenyl (S)	81	%	46-130	1	10/13/21 23:07	10/14/21 10:19	92-94-4	

Gasoline Range Organics

Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B

Pace Analytical Services - Kansas City

TPH-GRO	ND	mg/kg	10.1	1	10/13/21 13:38	10/13/21 21:25		
Surrogates								
4-Bromofluorobenzene (S)	94	%	63-121	1	10/13/21 13:38	10/13/21 21:25	460-00-4	

8260B MSV 5035A Low Level

Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B

Pace Analytical Services - Kansas City

Benzene	ND	ug/kg	5.0	1	10/13/21 13:50	10/15/21 11:14	71-43-2	
Ethylbenzene	ND	ug/kg	5.0	1	10/13/21 13:50	10/15/21 11:14	100-41-4	
Toluene	ND	ug/kg	5.0	1	10/13/21 13:50	10/15/21 11:14	108-88-3	
Xylene (Total)	ND	ug/kg	15.1	1	10/13/21 13:50	10/15/21 11:14	1330-20-7	
Surrogates								
Toluene-d8 (S)	107	%	80-120	1	10/13/21 13:50	10/15/21 11:14	2037-26-5	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60382955

Sample: FS-4 **Lab ID: 60382955004** Collected: 10/07/21 11:15 Received: 10/13/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Surrogates								
4-Bromofluorobenzene (S)	104	%	83-119	1	10/13/21 13:50	10/15/21 11:14	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1	10/13/21 13:50	10/15/21 11:14	2199-69-1	
Percent Moisture Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	5.7	%	0.50	1		10/13/21 14:08		
9056 IC Anions Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	1880	mg/kg	104	10	10/13/21 14:58	10/14/21 10:08	16887-00-6	

Sample: FS-5 **Lab ID: 60382955005** Collected: 10/07/21 11:20 Received: 10/13/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	38.7	mg/kg	10.6	1	10/13/21 23:07	10/14/21 12:12		
TPH-ORO (C28-C35)	55.8	mg/kg	10.6	1	10/13/21 23:07	10/14/21 12:12		
Surrogates								
n-Tetracosane (S)	101	%	31-152	1	10/13/21 23:07	10/14/21 12:12	646-31-1	
p-Terphenyl (S)	87	%	46-130	1	10/13/21 23:07	10/14/21 12:12	92-94-4	
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	12.2	1	10/13/21 13:38	10/13/21 21:41		
Surrogates								
4-Bromofluorobenzene (S)	93	%	63-121	1	10/13/21 13:38	10/13/21 21:41	460-00-4	
8260B MSV 5035A Low Level Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	6.1	1	10/13/21 13:50	10/15/21 11:34	71-43-2	
Ethylbenzene	ND	ug/kg	6.1	1	10/13/21 13:50	10/15/21 11:34	100-41-4	
Toluene	ND	ug/kg	6.1	1	10/13/21 13:50	10/15/21 11:34	108-88-3	
Xylene (Total)	ND	ug/kg	18.3	1	10/13/21 13:50	10/15/21 11:34	1330-20-7	
Surrogates								
Toluene-d8 (S)	105	%	80-120	1	10/13/21 13:50	10/15/21 11:34	2037-26-5	
4-Bromofluorobenzene (S)	105	%	83-119	1	10/13/21 13:50	10/15/21 11:34	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1	10/13/21 13:50	10/15/21 11:34	2199-69-1	

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ANALYTICAL RESULTS

Project: VGEU 2801-02
Pace Project No.: 60382955

Sample: FS-5		Lab ID: 60382955005		Collected: 10/07/21 11:20		Received: 10/13/21 09:15		Matrix: Solid	
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.									
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture		Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City							
Percent Moisture		11.7	%	0.50	1		10/13/21 14:08		
9056 IC Anions		Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City							
Chloride		14200	mg/kg	1120	100	10/13/21 14:58	10/14/21 13:30	16887-00-6	

Sample: FS-6		Lab ID: 60382955006		Collected: 10/07/21 11:25		Received: 10/13/21 09:15		Matrix: Solid	
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.									
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8015B Diesel Range Organics		Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City							
TPH-DRO (C10-C28)	ND	mg/kg	11.1	1	10/13/21 23:07	10/14/21 10:35			
TPH-ORO (C28-C35)	ND	mg/kg	11.1	1	10/13/21 23:07	10/14/21 10:35			
Surrogates									
n-Tetracosane (S)	89	%	31-152	1	10/13/21 23:07	10/14/21 10:35	646-31-1		
p-Terphenyl (S)	78	%	46-130	1	10/13/21 23:07	10/14/21 10:35	92-94-4		
Gasoline Range Organics		Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City							
TPH-GRO	ND	mg/kg	12.5	1	10/13/21 13:38	10/13/21 21:56			
Surrogates									
4-Bromofluorobenzene (S)	95	%	63-121	1	10/13/21 13:38	10/13/21 21:56	460-00-4		
8260B MSV 5035A Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City							
Benzene	ND	ug/kg	6.3	1	10/13/21 13:50	10/15/21 11:55	71-43-2		
Ethylbenzene	ND	ug/kg	6.3	1	10/13/21 13:50	10/15/21 11:55	100-41-4		
Toluene	ND	ug/kg	6.3	1	10/13/21 13:50	10/15/21 11:55	108-88-3		
Xylene (Total)	ND	ug/kg	18.8	1	10/13/21 13:50	10/15/21 11:55	1330-20-7		
Surrogates									
Toluene-d8 (S)	110	%	80-120	1	10/13/21 13:50	10/15/21 11:55	2037-26-5		
4-Bromofluorobenzene (S)	107	%	83-119	1	10/13/21 13:50	10/15/21 11:55	460-00-4		
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1	10/13/21 13:50	10/15/21 11:55	2199-69-1		
Percent Moisture		Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City							
Percent Moisture	11.8	%	0.50	1		10/13/21 14:08			
9056 IC Anions		Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City							
Chloride	12900	mg/kg	1140	100	10/13/21 14:58	10/14/21 13:42	16887-00-6		

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60382955

Sample: FS-7 **Lab ID: 60382955007** Collected: 10/07/21 11:30 Received: 10/13/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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8015B Diesel Range Organics

Analytical Method: EPA 8015B Preparation Method: EPA 3546

Pace Analytical Services - Kansas City

TPH-DRO (C10-C28)	ND	mg/kg	10.6	1	10/13/21 23:07	10/14/21 10:43		
TPH-ORO (C28-C35)	ND	mg/kg	10.6	1	10/13/21 23:07	10/14/21 10:43		
Surrogates								
n-Tetracosane (S)	85	%	31-152	1	10/13/21 23:07	10/14/21 10:43	646-31-1	
p-Terphenyl (S)	75	%	46-130	1	10/13/21 23:07	10/14/21 10:43	92-94-4	

Gasoline Range Organics

Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B

Pace Analytical Services - Kansas City

TPH-GRO	ND	mg/kg	10.1	1	10/13/21 13:38	10/13/21 22:12		
Surrogates								
4-Bromofluorobenzene (S)	94	%	63-121	1	10/13/21 13:38	10/13/21 22:12	460-00-4	

8260B MSV 5035A Low Level

Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B

Pace Analytical Services - Kansas City

Benzene	ND	ug/kg	5.1	1	10/13/21 13:50	10/15/21 12:15	71-43-2	
Ethylbenzene	ND	ug/kg	5.1	1	10/13/21 13:50	10/15/21 12:15	100-41-4	
Toluene	ND	ug/kg	5.1	1	10/13/21 13:50	10/15/21 12:15	108-88-3	
Xylene (Total)	ND	ug/kg	15.2	1	10/13/21 13:50	10/15/21 12:15	1330-20-7	
Surrogates								
Toluene-d8 (S)	107	%	80-120	1	10/13/21 13:50	10/15/21 12:15	2037-26-5	
4-Bromofluorobenzene (S)	106	%	83-119	1	10/13/21 13:50	10/15/21 12:15	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	80-120	1	10/13/21 13:50	10/15/21 12:15	2199-69-1	

Percent Moisture

Analytical Method: ASTM D2974

Pace Analytical Services - Kansas City

Percent Moisture	6.0	%	0.50	1		10/13/21 14:08		
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9056 IC Anions

Analytical Method: EPA 9056 Preparation Method: EPA 9056

Pace Analytical Services - Kansas City

Chloride	1770	mg/kg	104	10	10/13/21 14:58	10/14/21 11:08	16887-00-6	
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Sample: FS-9 **Lab ID: 60382955008** Collected: 10/11/21 09:00 Received: 10/13/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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8015B Diesel Range Organics

Analytical Method: EPA 8015B Preparation Method: EPA 3546

Pace Analytical Services - Kansas City

TPH-DRO (C10-C28)	ND	mg/kg	10	1	10/13/21 23:07	10/14/21 10:51		
TPH-ORO (C28-C35)	ND	mg/kg	10	1	10/13/21 23:07	10/14/21 10:51		
Surrogates								
n-Tetracosane (S)	97	%	31-152	1	10/13/21 23:07	10/14/21 10:51	646-31-1	
p-Terphenyl (S)	82	%	46-130	1	10/13/21 23:07	10/14/21 10:51	92-94-4	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60382955

Sample: FS-9 Lab ID: 60382955008 Collected: 10/11/21 09:00 Received: 10/13/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	10.6	1	10/13/21 13:38	10/13/21 22:27		
Surrogates								
4-Bromofluorobenzene (S)	94	%	63-121	1	10/13/21 13:38	10/13/21 22:27	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.3	1	10/13/21 13:50	10/15/21 12:35	71-43-2	
Ethylbenzene	ND	ug/kg	5.3	1	10/13/21 13:50	10/15/21 12:35	100-41-4	
Toluene	ND	ug/kg	5.3	1	10/13/21 13:50	10/15/21 12:35	108-88-3	
Xylene (Total)	ND	ug/kg	15.9	1	10/13/21 13:50	10/15/21 12:35	1330-20-7	
Surrogates								
Toluene-d8 (S)	103	%	80-120	1	10/13/21 13:50	10/15/21 12:35	2037-26-5	
4-Bromofluorobenzene (S)	106	%	83-119	1	10/13/21 13:50	10/15/21 12:35	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1	10/13/21 13:50	10/15/21 12:35	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	4.2	%	0.50	1		10/13/21 14:08		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	683	mg/kg	101	10	10/13/21 14:58	10/14/21 11:19	16887-00-6	

Sample: FS-10 Lab ID: 60382955009 Collected: 10/11/21 09:07 Received: 10/13/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.6	1	10/13/21 23:07	10/14/21 10:59		
TPH-ORO (C28-C35)	ND	mg/kg	10.6	1	10/13/21 23:07	10/14/21 10:59		
Surrogates								
n-Tetracosane (S)	111	%	31-152	1	10/13/21 23:07	10/14/21 10:59	646-31-1	
p-Terphenyl (S)	82	%	46-130	1	10/13/21 23:07	10/14/21 10:59	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	10.6	1	10/13/21 13:38	10/13/21 22:43		
Surrogates								
4-Bromofluorobenzene (S)	94	%	63-121	1	10/13/21 13:38	10/13/21 22:43	460-00-4	

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ANALYTICAL RESULTS

Project: VGEU 2801-02
Pace Project No.: 60382955

Sample: FS-10 Lab ID: 60382955009 Collected: 10/11/21 09:07 Received: 10/13/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.3	1	10/13/21 13:50	10/15/21 12:55	71-43-2	
Ethylbenzene	ND	ug/kg	5.3	1	10/13/21 13:50	10/15/21 12:55	100-41-4	
Toluene	ND	ug/kg	5.3	1	10/13/21 13:50	10/15/21 12:55	108-88-3	
Xylene (Total)	ND	ug/kg	15.9	1	10/13/21 13:50	10/15/21 12:55	1330-20-7	
Surrogates								
Toluene-d8 (S)	107	%	80-120	1	10/13/21 13:50	10/15/21 12:55	2037-26-5	
4-Bromofluorobenzene (S)	105	%	83-119	1	10/13/21 13:50	10/15/21 12:55	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	10/13/21 13:50	10/15/21 12:55	2199-69-1	

Percent Moisture

Analytical Method: ASTM D2974
Pace Analytical Services - Kansas City

Percent Moisture	6.8	%	0.50	1		10/13/21 14:08		
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9056 IC Anions

Analytical Method: EPA 9056 Preparation Method: EPA 9056
Pace Analytical Services - Kansas City

Chloride	9720	mg/kg	1110	100	10/13/21 14:58	10/14/21 13:53	16887-00-6	
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Sample: FS-11 Lab ID: 60382955010 Collected: 10/11/21 09:15 Received: 10/13/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.6	1	10/13/21 23:07	10/14/21 11:07		
TPH-ORO (C28-C35)	ND	mg/kg	10.6	1	10/13/21 23:07	10/14/21 11:07		
Surrogates								
n-Tetracosane (S)	94	%	31-152	1	10/13/21 23:07	10/14/21 11:07	646-31-1	
p-Terphenyl (S)	77	%	46-130	1	10/13/21 23:07	10/14/21 11:07	92-94-4	

Gasoline Range Organics

Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B
Pace Analytical Services - Kansas City

TPH-GRO	ND	mg/kg	10.6	1	10/13/21 13:38	10/13/21 23:30		
Surrogates								
4-Bromofluorobenzene (S)	94	%	63-121	1	10/13/21 13:38	10/13/21 23:30	460-00-4	

8260B MSV 5035A Low Level

Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B
Pace Analytical Services - Kansas City

Benzene	ND	ug/kg	5.3	1	10/13/21 13:59	10/15/21 13:15	71-43-2	
Ethylbenzene	ND	ug/kg	5.3	1	10/13/21 13:59	10/15/21 13:15	100-41-4	
Toluene	ND	ug/kg	5.3	1	10/13/21 13:59	10/15/21 13:15	108-88-3	
Xylene (Total)	ND	ug/kg	15.9	1	10/13/21 13:59	10/15/21 13:15	1330-20-7	
Surrogates								
Toluene-d8 (S)	107	%	80-120	1	10/13/21 13:59	10/15/21 13:15	2037-26-5	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60382955

Sample: FS-11 **Lab ID: 60382955010** Collected: 10/11/21 09:15 Received: 10/13/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Surrogates								
4-Bromofluorobenzene (S)	104	%	83-119	1	10/13/21 13:59	10/15/21 13:15	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	10/13/21 13:59	10/15/21 13:15	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	7.5	%	0.50	1		10/13/21 14:08		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056								
Pace Analytical Services - Kansas City								
Chloride	8160	mg/kg	1060	100	10/13/21 14:58	10/14/21 14:05	16887-00-6	

Sample: WSW-1 (1') **Lab ID: 60382955011** Collected: 10/11/21 09:22 Received: 10/13/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.4	1	10/13/21 23:07	10/14/21 11:15		
TPH-ORO (C28-C35)	16.4	mg/kg	10.4	1	10/13/21 23:07	10/14/21 11:15		
Surrogates								
n-Tetracosane (S)	113	%	31-152	1	10/13/21 23:07	10/14/21 11:15	646-31-1	
p-Terphenyl (S)	81	%	46-130	1	10/13/21 23:07	10/14/21 11:15	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.0	1	10/13/21 13:38	10/13/21 23:45		
Surrogates								
4-Bromofluorobenzene (S)	95	%	63-121	1	10/13/21 13:38	10/13/21 23:45	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.5	1	10/13/21 13:59	10/15/21 13:35	71-43-2	
Ethylbenzene	ND	ug/kg	5.5	1	10/13/21 13:59	10/15/21 13:35	100-41-4	
Toluene	ND	ug/kg	5.5	1	10/13/21 13:59	10/15/21 13:35	108-88-3	
Xylene (Total)	ND	ug/kg	16.4	1	10/13/21 13:59	10/15/21 13:35	1330-20-7	
Surrogates								
Toluene-d8 (S)	108	%	80-120	1	10/13/21 13:59	10/15/21 13:35	2037-26-5	
4-Bromofluorobenzene (S)	107	%	83-119	1	10/13/21 13:59	10/15/21 13:35	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	10/13/21 13:59	10/15/21 13:35	2199-69-1	

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ANALYTICAL RESULTS

Project: VGEU 2801-02
Pace Project No.: 60382955

Sample: WSW-1 (1') **Lab ID: 60382955011** Collected: 10/11/21 09:22 Received: 10/13/21 09:15 Matrix: Solid
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	8.1	%	0.50	1		10/13/21 14:08		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	193	mg/kg	105	10	10/13/21 14:58	10/14/21 11:55	16887-00-6	

Sample: NSW-5 (6') **Lab ID: 60382955012** Collected: 10/11/21 09:27 Received: 10/13/21 09:15 Matrix: Solid
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.3	1	10/13/21 23:07	10/14/21 11:24		
TPH-ORO (C28-C35)	16.2	mg/kg	10.3	1	10/13/21 23:07	10/14/21 11:24		
Surrogates								
n-Tetracosane (S)	129	%	31-152	1	10/13/21 23:07	10/14/21 11:24	646-31-1	
p-Terphenyl (S)	76	%	46-130	1	10/13/21 23:07	10/14/21 11:24	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.4	1	10/13/21 13:38	10/14/21 00:32		
Surrogates								
4-Bromofluorobenzene (S)	97	%	63-121	1	10/13/21 13:38	10/14/21 00:32	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.7	1	10/13/21 13:59	10/15/21 13:56	71-43-2	
Ethylbenzene	ND	ug/kg	5.7	1	10/13/21 13:59	10/15/21 13:56	100-41-4	
Toluene	ND	ug/kg	5.7	1	10/13/21 13:59	10/15/21 13:56	108-88-3	
Xylene (Total)	ND	ug/kg	17.0	1	10/13/21 13:59	10/15/21 13:56	1330-20-7	
Surrogates								
Toluene-d8 (S)	109	%	80-120	1	10/13/21 13:59	10/15/21 13:56	2037-26-5	
4-Bromofluorobenzene (S)	107	%	83-119	1	10/13/21 13:59	10/15/21 13:56	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1	10/13/21 13:59	10/15/21 13:56	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	7.6	%	0.50	1		10/13/21 14:08		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	200	mg/kg	110	10	10/13/21 14:58	10/14/21 12:07	16887-00-6	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60382955

Sample: NSW-6 (6') Lab ID: 60382955013 Collected: 10/11/21 09:35 Received: 10/13/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	15.2	1	10/14/21 08:16	10/14/21 12:45		
TPH-ORO (C28-C35)	17.1	mg/kg	15.2	1	10/14/21 08:16	10/14/21 12:45		
Surrogates								
n-Tetracosane (S)	79	%	31-152	1	10/14/21 08:16	10/14/21 12:45	646-31-1	
p-Terphenyl (S)	70	%	46-130	1	10/14/21 08:16	10/14/21 12:45	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.4	1	10/13/21 13:38	10/14/21 00:48		
Surrogates								
4-Bromofluorobenzene (S)	94	%	63-121	1	10/13/21 13:38	10/14/21 00:48	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.7	1	10/13/21 13:59	10/15/21 14:16	71-43-2	
Ethylbenzene	ND	ug/kg	5.7	1	10/13/21 13:59	10/15/21 14:16	100-41-4	
Toluene	ND	ug/kg	5.7	1	10/13/21 13:59	10/15/21 14:16	108-88-3	
Xylene (Total)	ND	ug/kg	17.1	1	10/13/21 13:59	10/15/21 14:16	1330-20-7	
Surrogates								
Toluene-d8 (S)	105	%	80-120	1	10/13/21 13:59	10/15/21 14:16	2037-26-5	
4-Bromofluorobenzene (S)	105	%	83-119	1	10/13/21 13:59	10/15/21 14:16	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1	10/13/21 13:59	10/15/21 14:16	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	7.0	%	0.50	1		10/13/21 14:08		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056								
Pace Analytical Services - Kansas City								
Chloride	517	mg/kg	105	10	10/13/21 14:58	10/14/21 12:19	16887-00-6	

Sample: SSW-27 Lab ID: 60382955014 Collected: 10/11/21 09:45 Received: 10/13/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	10.5	mg/kg	10.4	1	10/13/21 23:07	10/14/21 11:32		
TPH-ORO (C28-C35)	16.1	mg/kg	10.4	1	10/13/21 23:07	10/14/21 11:32		
Surrogates								
n-Tetracosane (S)	97	%	31-152	1	10/13/21 23:07	10/14/21 11:32	646-31-1	
p-Terphenyl (S)	81	%	46-130	1	10/13/21 23:07	10/14/21 11:32	92-94-4	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60382955

Sample: SSW-27 Lab ID: 60382955014 Collected: 10/11/21 09:45 Received: 10/13/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.3	1	10/13/21 13:38	10/14/21 01:03		
Surrogates								
4-Bromofluorobenzene (S)	95	%	63-121	1	10/13/21 13:38	10/14/21 01:03	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.7	1	10/13/21 13:59	10/15/21 14:36	71-43-2	
Ethylbenzene	ND	ug/kg	5.7	1	10/13/21 13:59	10/15/21 14:36	100-41-4	
Toluene	ND	ug/kg	5.7	1	10/13/21 13:59	10/15/21 14:36	108-88-3	
Xylene (Total)	ND	ug/kg	17.0	1	10/13/21 13:59	10/15/21 14:36	1330-20-7	
Surrogates								
Toluene-d8 (S)	105	%	80-120	1	10/13/21 13:59	10/15/21 14:36	2037-26-5	
4-Bromofluorobenzene (S)	103	%	83-119	1	10/13/21 13:59	10/15/21 14:36	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	10/13/21 13:59	10/15/21 14:36	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	6.5	%	0.50	1		10/13/21 14:08		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	325	mg/kg	105	10	10/13/21 14:58	10/14/21 12:30	16887-00-6	

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QUALITY CONTROL DATA

Project: VGEU 2801-02

Pace Project No.: 60382955

QC Batch:	749222	Analysis Method:	EPA 8015B
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	Gasoline Range Organics
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60382955001, 60382955002, 60382955003, 60382955004, 60382955005, 60382955006, 60382955007, 60382955008, 60382955009, 60382955010, 60382955011, 60382955012, 60382955013, 60382955014		

METHOD BLANK:	3000222	Matrix:	Solid
Associated Lab Samples:	60382955001, 60382955002, 60382955003, 60382955004, 60382955005, 60382955006, 60382955007, 60382955008, 60382955009, 60382955010, 60382955011, 60382955012, 60382955013, 60382955014		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	10/13/21 20:07	
4-Bromofluorobenzene (S)	%	96	63-121	10/13/21 20:07	

LABORATORY CONTROL SAMPLE:	3000223					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	47.3	95	71-107	
4-Bromofluorobenzene (S)	%			98	63-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3000224			3000225								
Parameter	Units	60382955011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-GRO	mg/kg	ND	54.1	54.1	51.1	52.6	93	96	29-143	3	26	
4-Bromofluorobenzene (S)	%						97	95	63-121			

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QUALITY CONTROL DATA

Project: VGEU 2801-02

Pace Project No.: 60382955

QC Batch:	749219	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	8260B MSV 5035A Low Level
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60382955001, 60382955002, 60382955003, 60382955004, 60382955005, 60382955006, 60382955007, 60382955008, 60382955009		

METHOD BLANK:	3000214	Matrix:	Solid
Associated Lab Samples:	60382955001, 60382955002, 60382955003, 60382955004, 60382955005, 60382955006, 60382955007, 60382955008, 60382955009		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	10/14/21 10:04	
Ethylbenzene	ug/kg	ND	5.0	10/14/21 10:04	
Toluene	ug/kg	ND	5.0	10/14/21 10:04	
Xylene (Total)	ug/kg	ND	15.0	10/14/21 10:04	
1,2-Dichlorobenzene-d4 (S)	%	97	80-120	10/14/21 10:04	
4-Bromofluorobenzene (S)	%	103	83-119	10/14/21 10:04	
Toluene-d8 (S)	%	110	80-120	10/14/21 10:04	

METHOD BLANK:	3000983	Matrix:	Solid
Associated Lab Samples:	60382955001, 60382955002, 60382955003, 60382955004, 60382955005, 60382955006, 60382955007, 60382955008, 60382955009		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	10/15/21 09:32	
Ethylbenzene	ug/kg	ND	5.0	10/15/21 09:32	
Toluene	ug/kg	ND	5.0	10/15/21 09:32	
Xylene (Total)	ug/kg	ND	15.0	10/15/21 09:32	
1,2-Dichlorobenzene-d4 (S)	%	98	80-120	10/15/21 09:32	
4-Bromofluorobenzene (S)	%	109	83-119	10/15/21 09:32	
Toluene-d8 (S)	%	120	80-120	10/15/21 09:32	

LABORATORY CONTROL SAMPLE:	3000215
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Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	1250	1270	102	67-126	
Ethylbenzene	ug/kg	1250	1300	104	69-127	
Toluene	ug/kg	1250	1250	100	80-118	
Xylene (Total)	ug/kg	3750	3940	105	69-130	
1,2-Dichlorobenzene-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			110	83-119	
Toluene-d8 (S)	%			98	80-120	

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QUALITY CONTROL DATA

Project: VGEU 2801-02

Pace Project No.: 60382955

LABORATORY CONTROL SAMPLE: 3000984

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	1250	1270	102	67-126	
Ethylbenzene	ug/kg	1250	1360	109	69-127	
Toluene	ug/kg	1250	1300	104	80-118	
Xylene (Total)	ug/kg	3750	3940	105	69-130	
1,2-Dichlorobenzene-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			101	83-119	
Toluene-d8 (S)	%			91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3000216 3000217

Parameter	Units	60382943001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	<0.65	1800	1800	1670	1690	93	94	17-134	1	53	
Ethylbenzene	ug/kg	<1.2	1800	1800	1730	1800	97	100	10-137	4	60	
Toluene	ug/kg	<6.4	1800	1800	1670	1730	93	96	13-131	3	60	
Xylene (Total)	ug/kg	<5.3	5370	5370	5240	5430	98	101	10-137	4	58	
1,2-Dichlorobenzene-d4 (S)	%						97	99	80-120			
4-Bromofluorobenzene (S)	%						102	103	83-119			
Toluene-d8 (S)	%						95	95	80-120			

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QUALITY CONTROL DATA

Project: VGEU 2801-02

Pace Project No.: 60382955

QC Batch:	749221	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	8260B MSV 5035A Low Level
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60382955010, 60382955011, 60382955012, 60382955013, 60382955014

METHOD BLANK: 3000218

Matrix: Solid

Associated Lab Samples: 60382955010, 60382955011, 60382955012, 60382955013, 60382955014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	10/15/21 09:32	
Ethylbenzene	ug/kg	ND	5.0	10/15/21 09:32	
Toluene	ug/kg	ND	5.0	10/15/21 09:32	
Xylene (Total)	ug/kg	ND	15.0	10/15/21 09:32	
1,2-Dichlorobenzene-d4 (S)	%	98	80-120	10/15/21 09:32	
4-Bromofluorobenzene (S)	%	109	83-119	10/15/21 09:32	
Toluene-d8 (S)	%	120	80-120	10/15/21 09:32	

LABORATORY CONTROL SAMPLE: 3000219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	1250	1270	102	67-126	
Ethylbenzene	ug/kg	1250	1360	109	69-127	
Toluene	ug/kg	1250	1300	104	80-118	
Xylene (Total)	ug/kg	3750	3940	105	69-130	
1,2-Dichlorobenzene-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			101	83-119	
Toluene-d8 (S)	%			91	80-120	

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QUALITY CONTROL DATA

Project: VGEU 2801-02
Pace Project No.: 60382955

QC Batch:	749215	Analysis Method:	EPA 8015B
QC Batch Method:	EPA 3546	Analysis Description:	EPA 8015B
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60382955001, 60382955002, 60382955003, 60382955004, 60382955005, 60382955006, 60382955007, 60382955008, 60382955009, 60382955010, 60382955011, 60382955012, 60382955014		

METHOD BLANK: 3000175 Matrix: Solid
Associated Lab Samples: 60382955001, 60382955002, 60382955003, 60382955004, 60382955005, 60382955006, 60382955007, 60382955008, 60382955009, 60382955010, 60382955011, 60382955012, 60382955014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO (C10-C28)	mg/kg	ND	10	10/14/21 09:14	
TPH-ORO (C28-C35)	mg/kg	ND	10	10/14/21 09:14	
n-Tetracosane (S)	%	90	31-152	10/14/21 09:14	
p-Terphenyl (S)	%	84	46-130	10/14/21 09:14	

LABORATORY CONTROL SAMPLE: 3000176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO (C10-C28)	mg/kg	80.7	71.7	89	74-124	
n-Tetracosane (S)	%			91	31-152	
p-Terphenyl (S)	%			88	46-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3000177 3000178

Parameter	Units	60382955001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-DRO (C10-C28)	mg/kg	1120	84.6	85.7	1190	1250	91	158	30-130	5	35	M1
n-Tetracosane (S)	%						0	0	31-152			S4
p-Terphenyl (S)	%						0	0	46-130			S4

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QUALITY CONTROL DATA

Project: VGEU 2801-02

Pace Project No.: 60382955

QC Batch: 749344

Analysis Method: EPA 8015B

QC Batch Method: EPA 3546

Analysis Description: EPA 8015B

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60382955013

METHOD BLANK: 3000722

Matrix: Solid

Associated Lab Samples: 60382955013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO (C10-C28)	mg/kg	ND	9.7	10/14/21 12:28	
TPH-ORO (C28-C35)	mg/kg	ND	9.7	10/14/21 12:28	
n-Tetracosane (S)	%	92	31-152	10/14/21 12:28	
p-Terphenyl (S)	%	86	46-130	10/14/21 12:28	

LABORATORY CONTROL SAMPLE: 3000723

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO (C10-C28)	mg/kg	82.3	68.5	83	74-124	
n-Tetracosane (S)	%			99	31-152	
p-Terphenyl (S)	%			91	46-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3000724 3000725

Parameter	Units	60382955013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-DRO (C10-C28)	mg/kg	ND	127	129	104	93.9	76	68	30-130	10	35	
n-Tetracosane (S)	%						80	57	31-152			
p-Terphenyl (S)	%						72	54	46-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: VGEU 2801-02

Pace Project No.: 60382955

QC Batch:	749230	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60382955001, 60382955002, 60382955003, 60382955004, 60382955005, 60382955006, 60382955007, 60382955008, 60382955009, 60382955010, 60382955011, 60382955012, 60382955013, 60382955014		

METHOD BLANK: 3000294

Matrix: Solid

Associated Lab Samples: 60382955001, 60382955002, 60382955003, 60382955004, 60382955005, 60382955006, 60382955007, 60382955008, 60382955009, 60382955010, 60382955011, 60382955012, 60382955013, 60382955014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	10/13/21 14:09	

SAMPLE DUPLICATE: 3000295

Parameter	Units	60382836001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.2	7.2	1	20	

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QUALITY CONTROL DATA

Project: VGEU 2801-02

Pace Project No.: 60382955

QC Batch:	749255	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60382955001, 60382955002, 60382955003, 60382955004, 60382955005, 60382955006, 60382955007, 60382955008, 60382955009, 60382955010, 60382955011, 60382955012, 60382955013, 60382955014		

METHOD BLANK: 3000379

Matrix: Solid

Associated Lab Samples: 60382955001, 60382955002, 60382955003, 60382955004, 60382955005, 60382955006, 60382955007, 60382955008, 60382955009, 60382955010, 60382955011, 60382955012, 60382955013, 60382955014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	100	10/14/21 08:13	

LABORATORY CONTROL SAMPLE: 3000380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	500	479	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3000381 3000382

Parameter	Units	60382952001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/kg	159	500	500	596	597	87	88	80-120	0	15	

SAMPLE DUPLICATE: 3000383

Parameter	Units	60382955001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/kg	642	635	1	15	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: VGEU 2801-02

Pace Project No.: 60382955

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: VGEU 2801-02
Pace Project No.: 60382955

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60382955001	FS-1	EPA 3546	749215	EPA 8015B	749374
60382955002	FS-2	EPA 3546	749215	EPA 8015B	749374
60382955003	FS-3	EPA 3546	749215	EPA 8015B	749374
60382955004	FS-4	EPA 3546	749215	EPA 8015B	749374
60382955005	FS-5	EPA 3546	749215	EPA 8015B	749374
60382955006	FS-6	EPA 3546	749215	EPA 8015B	749374
60382955007	FS-7	EPA 3546	749215	EPA 8015B	749374
60382955008	FS-9	EPA 3546	749215	EPA 8015B	749374
60382955009	FS-10	EPA 3546	749215	EPA 8015B	749374
60382955010	FS-11	EPA 3546	749215	EPA 8015B	749374
60382955011	WSW-1 (1')	EPA 3546	749215	EPA 8015B	749374
60382955012	NSW-5 (6')	EPA 3546	749215	EPA 8015B	749374
60382955013	NSW-6 (6')	EPA 3546	749344	EPA 8015B	749465
60382955014	SSW-27	EPA 3546	749215	EPA 8015B	749374
60382955001	FS-1	EPA 5035A/5030B	749222	EPA 8015B	749259
60382955002	FS-2	EPA 5035A/5030B	749222	EPA 8015B	749259
60382955003	FS-3	EPA 5035A/5030B	749222	EPA 8015B	749259
60382955004	FS-4	EPA 5035A/5030B	749222	EPA 8015B	749259
60382955005	FS-5	EPA 5035A/5030B	749222	EPA 8015B	749259
60382955006	FS-6	EPA 5035A/5030B	749222	EPA 8015B	749259
60382955007	FS-7	EPA 5035A/5030B	749222	EPA 8015B	749259
60382955008	FS-9	EPA 5035A/5030B	749222	EPA 8015B	749259
60382955009	FS-10	EPA 5035A/5030B	749222	EPA 8015B	749259
60382955010	FS-11	EPA 5035A/5030B	749222	EPA 8015B	749259
60382955011	WSW-1 (1')	EPA 5035A/5030B	749222	EPA 8015B	749259
60382955012	NSW-5 (6')	EPA 5035A/5030B	749222	EPA 8015B	749259
60382955013	NSW-6 (6')	EPA 5035A/5030B	749222	EPA 8015B	749259
60382955014	SSW-27	EPA 5035A/5030B	749222	EPA 8015B	749259
60382955001	FS-1	EPA 5035A/5030B	749219	EPA 8260B	749392
60382955002	FS-2	EPA 5035A/5030B	749219	EPA 8260B	749392
60382955003	FS-3	EPA 5035A/5030B	749219	EPA 8260B	749392
60382955004	FS-4	EPA 5035A/5030B	749219	EPA 8260B	749392
60382955005	FS-5	EPA 5035A/5030B	749219	EPA 8260B	749392
60382955006	FS-6	EPA 5035A/5030B	749219	EPA 8260B	749392
60382955007	FS-7	EPA 5035A/5030B	749219	EPA 8260B	749392
60382955008	FS-9	EPA 5035A/5030B	749219	EPA 8260B	749392
60382955009	FS-10	EPA 5035A/5030B	749219	EPA 8260B	749392
60382955010	FS-11	EPA 5035A/5030B	749221	EPA 8260B	749253
60382955011	WSW-1 (1')	EPA 5035A/5030B	749221	EPA 8260B	749253
60382955012	NSW-5 (6')	EPA 5035A/5030B	749221	EPA 8260B	749253
60382955013	NSW-6 (6')	EPA 5035A/5030B	749221	EPA 8260B	749253
60382955014	SSW-27	EPA 5035A/5030B	749221	EPA 8260B	749253
60382955001	FS-1	ASTM D2974	749230		
60382955002	FS-2	ASTM D2974	749230		
60382955003	FS-3	ASTM D2974	749230		
60382955004	FS-4	ASTM D2974	749230		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: VGEU 2801-02

Pace Project No.: 60382955

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60382955005	FS-5	ASTM D2974	749230		
60382955006	FS-6	ASTM D2974	749230		
60382955007	FS-7	ASTM D2974	749230		
60382955008	FS-9	ASTM D2974	749230		
60382955009	FS-10	ASTM D2974	749230		
60382955010	FS-11	ASTM D2974	749230		
60382955011	WSW-1 (1')	ASTM D2974	749230		
60382955012	NSW-5 (6')	ASTM D2974	749230		
60382955013	NSW-6 (6')	ASTM D2974	749230		
60382955014	SSW-27	ASTM D2974	749230		
60382955001	FS-1	EPA 9056	749255	EPA 9056	749557
60382955002	FS-2	EPA 9056	749255	EPA 9056	749557
60382955003	FS-3	EPA 9056	749255	EPA 9056	749557
60382955004	FS-4	EPA 9056	749255	EPA 9056	749557
60382955005	FS-5	EPA 9056	749255	EPA 9056	749557
60382955006	FS-6	EPA 9056	749255	EPA 9056	749557
60382955007	FS-7	EPA 9056	749255	EPA 9056	749557
60382955008	FS-9	EPA 9056	749255	EPA 9056	749557
60382955009	FS-10	EPA 9056	749255	EPA 9056	749557
60382955010	FS-11	EPA 9056	749255	EPA 9056	749557
60382955011	WSW-1 (1')	EPA 9056	749255	EPA 9056	749557
60382955012	NSW-5 (6')	EPA 9056	749255	EPA 9056	749557
60382955013	NSW-6 (6')	EPA 9056	749255	EPA 9056	749557
60382955014	SSW-27	EPA 9056	749255	EPA 9056	749557

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Sample Condition Upon Receipt

WO#: 60382955

Client Name: Tetra TechCourier: FedEx ☒ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☐ Other ☐Tracking #: 50006533264 Pace Shipping Label Used? Yes ☐ No ☒Custody Seal on Cooler/Box Present: Yes ☐ No ☒ Seals intact: Yes ☒ No ☐Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Other ☐Thermometer Used: T-296 Type of Ice: 0 Blue ☐ None ☒Cooler Temperature (°C): As-read 0.6 Corr. Factor -0.3 Corrected 0.3

Date and initials of person examining contents:

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>24hr</u>
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: <u>SL</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Samples from USDA Regulated Area: State: <u>NM</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	

Client Notification/ Resolution:

Copy COC to Client? Y ☐ N ☒Field Data Required? Y ☐ N ☒

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____



Tetra Tech, Inc.

901 West Wall Street, Suite 100
Midland, Texas 79701
(432) 682-4559
Fax (432) 682-682-

Client Name:	Conoco Phillips	Site Manager:	Christian Llull
Project Name:	VEGU 2801-02	Contact Info:	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	Project #:	212C-MD-02099
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	Sampler Signature:	John Thurston

Comments: COPTETRA Accrnum

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	NONE		
	FS-1	10/7/2021	11:00		X			X		1	N
	FS-2	10/7/2021	11:05		X			X		1	N
	FS-3	10/7/2021	11:10		X			X		1	N
	FS-4	10/7/2021	11:15		X			X		1	N
	FS-5	10/7/2021	11:20		X			X		1	N
	FS-6	10/7/2021	11:25		X			X		1	N
	FS-7	10/7/2021	11:30		X			X		1	N
	FS-9	10/11/2021	9:00		X			X		1	N
	FS-10	10/11/2021	9:07		X			X		1	N
	FS-11	10/11/2021	9:15		X			X		1	N

Relinquished by:	Date: 10/12/21	Time: 0900	Received by:	Date: 10/13/21	Time: 0915
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

ANALYSIS REQUEST (Circle or Specify Method No.)											
TPH 8015R											
Anion/Cation Balance											
General Water Chemistry (see attached list)											
Chloride Sulfate TDS											
Chloride 300.0	X										
PLM (Asbestos)											
NORM											
PCBs 8082 / 608											
GC/MS Semi. Vol. 8270C/625											
GC/MS Vol. 8260B / 624											
RCI											
TCLP Semi Volatiles											
TCLP Volatiles											
TCLP Metals Ag As Ba Cd Cr Pb Se Hg											
Total Metals Ag As Ba Cd Cr Pb Se Hg											
PAH 8270C											
TPH 8015M (GRO - DRO - ORO - MRO)	X										
TPH TX1005 (Ext to C35)	X										
BTEX 8021B BTEX 8260B	X										

REMARKS:	<input type="checkbox"/> Standard
LAB USE ONLY	<input checked="" type="checkbox"/> RUSH: Same Day 24 hr. 48 hr. 72 hr.
Sample Temperature	<input type="checkbox"/> Rush Charges Authorized
	<input type="checkbox"/> Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY



November 01, 2021

Clair Gonzales

,

RE: Project: 212C-MD-02099
Pace Project No.: 60383397

Dear Clair Gonzales:

Enclosed are the analytical results for sample(s) received by the laboratory on October 16, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City

Revised report rev_1

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nolie Wood
nolie.wood@pacelabs.com
1(913)563-1401
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: 212C-MD-02099

Pace Project No.: 60383397

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 20-020-0

Arkansas Drinking Water

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212020-2

Oklahoma Certification #: 9205/9935

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-19-12

Utah Certification #: KS000212019-9

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 212C-MD-02099

Pace Project No.: 60383397

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60383397001	NSW-8	Solid	10/13/21 11:00	10/16/21 09:15
60383397002	NSW-9	Solid	10/13/21 11:05	10/16/21 09:15
60383397003	NSW-10	Solid	10/13/21 11:10	10/16/21 09:15
60383397004	NSW-11	Solid	10/13/21 11:15	10/16/21 09:15
60383397005	SSW-20	Solid	10/14/21 08:30	10/16/21 09:15
60383397006	SSW-21	Solid	10/14/21 08:35	10/16/21 09:15
60383397007	SSW-22	Solid	10/14/21 08:40	10/16/21 09:15
60383397008	SSW-23	Solid	10/14/21 08:45	10/16/21 09:15
60383397009	SSW-24	Solid	10/13/21 11:28	10/16/21 09:15
60383397010	SSW-25	Solid	10/13/21 11:33	10/16/21 09:15
60383397011	SSW-26	Solid	10/13/21 11:40	10/16/21 09:15
60383397012	SSW-24 (6')	Solid	10/14/21 09:29	10/16/21 09:15
60383397013	SSW-25 (4')	Solid	10/14/21 09:35	10/16/21 09:15
60383397014	SSW-26 (6')	Solid	10/14/21 09:45	10/16/21 09:15
60383397015	NSW-9 (3')	Solid	10/14/21 10:00	10/16/21 09:15
60383397016	SSW-20 (8')	Solid	10/15/21 08:15	10/16/21 09:15
60383397017	SSW-21 (8')	Solid	10/15/21 08:20	10/16/21 09:15
60383397018	SSW-22 (4')	Solid	10/15/21 08:25	10/16/21 09:15
60383397019	FS-8	Solid	10/15/21 08:30	10/16/21 09:15
60383397020	FS-12	Solid	10/15/21 08:35	10/16/21 09:15
60383397021	FS-13	Solid	10/15/21 08:40	10/16/21 09:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 212C-MD-02099
Pace Project No.: 60383397

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60383397001	NSW-8	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60383397002	NSW-9	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60383397003	NSW-10	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60383397004	NSW-11	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60383397005	SSW-20	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60383397006	SSW-21	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60383397007	SSW-22	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60383397008	SSW-23	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K

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SAMPLE ANALYTE COUNT

Project: 212C-MD-02099
Pace Project No.: 60383397

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60383397009	SSW-24	EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
60383397010	SSW-25	ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
60383397011	SSW-26	EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60383397012	SSW-24 (6')	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
60383397013	SSW-25 (4')	EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
60383397014	SSW-26 (6')	EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
60383397015	NSW-9 (3')	ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K

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SAMPLE ANALYTE COUNT

Project: 212C-MD-02099
Pace Project No.: 60383397

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60383397016	SSW-20 (8')	EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
60383397017	SSW-21 (8')	EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
60383397018	SSW-22 (4')	EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
60383397019	FS-8	EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
60383397020	FS-12	EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
60383397021	FS-13	EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

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ANALYTICAL RESULTS

Project: 212C-MD-02099

Pace Project No.: 60383397

Sample: NSW-8 **Lab ID: 60383397001** Collected: 10/13/21 11:00 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	59.6	1	10/18/21 11:04	10/18/21 16:03		
TPH-ORO (C28-C35)	ND	mg/kg	59.6	1	10/18/21 11:04	10/18/21 16:03		
Surrogates								
n-Tetracosane (S)	59	%	31-152	1	10/18/21 11:04	10/18/21 16:03	646-31-1	
p-Terphenyl (S)	81	%	46-130	1	10/18/21 11:04	10/18/21 16:03	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.1	1	10/18/21 09:58	10/18/21 15:59		
Surrogates								
4-Bromofluorobenzene (S)	97	%	63-121	1	10/18/21 09:58	10/18/21 15:59	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.5	1	10/18/21 10:58	10/18/21 11:53	71-43-2	
Ethylbenzene	ND	ug/kg	5.5	1	10/18/21 10:58	10/18/21 11:53	100-41-4	
Toluene	8.8	ug/kg	5.5	1	10/18/21 10:58	10/18/21 11:53	108-88-3	
Xylene (Total)	27.9	ug/kg	16.6	1	10/18/21 10:58	10/18/21 11:53	1330-20-7	
Surrogates								
Toluene-d8 (S)	103	%	80-120	1	10/18/21 10:58	10/18/21 11:53	2037-26-5	
4-Bromofluorobenzene (S)	105	%	83-119	1	10/18/21 10:58	10/18/21 11:53	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1	10/18/21 10:58	10/18/21 11:53	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	7.5	%	0.50	1		10/18/21 10:57		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056								
Pace Analytical Services - Kansas City								
Chloride	1120	mg/kg	107	10	10/18/21 11:35	10/18/21 19:26	16887-00-6	

Sample: NSW-9 **Lab ID: 60383397002** Collected: 10/13/21 11:05 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	11.4	mg/kg	10.4	1	10/18/21 11:04	10/18/21 16:28		
TPH-ORO (C28-C35)	12.2	mg/kg	10.4	1	10/18/21 11:04	10/18/21 16:28		
Surrogates								
n-Tetracosane (S)	57	%	31-152	1	10/18/21 11:04	10/18/21 16:28	646-31-1	
p-Terphenyl (S)	75	%	46-130	1	10/18/21 11:04	10/18/21 16:28	92-94-4	

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ANALYTICAL RESULTS

Project: 212C-MD-02099

Pace Project No.: 60383397

Sample: NSW-9 **Lab ID: 60383397002** Collected: 10/13/21 11:05 Received: 10/16/21 09:15 Matrix: Solid*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	10.4	1	10/18/21 09:58	10/18/21 16:15		
Surrogates								
4-Bromofluorobenzene (S)	97	%	63-121	1	10/18/21 09:58	10/18/21 16:15	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.2	1	10/18/21 10:58	10/18/21 12:13	71-43-2	
Ethylbenzene	ND	ug/kg	5.2	1	10/18/21 10:58	10/18/21 12:13	100-41-4	
Toluene	ND	ug/kg	5.2	1	10/18/21 10:58	10/18/21 12:13	108-88-3	
Xylene (Total)	ND	ug/kg	15.6	1	10/18/21 10:58	10/18/21 12:13	1330-20-7	
Surrogates								
Toluene-d8 (S)	106	%	80-120	1	10/18/21 10:58	10/18/21 12:13	2037-26-5	
4-Bromofluorobenzene (S)	103	%	83-119	1	10/18/21 10:58	10/18/21 12:13	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1	10/18/21 10:58	10/18/21 12:13	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	4.5	%	0.50	1		10/18/21 10:57		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	927	mg/kg	101	10	10/18/21 11:35	10/18/21 19:39	16887-00-6	

Sample: NSW-10 **Lab ID: 60383397003** Collected: 10/13/21 11:10 Received: 10/16/21 09:15 Matrix: Solid*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	10.5	mg/kg	10.1	1	10/18/21 11:04	10/18/21 16:36		
TPH-ORO (C28-C35)	16.2	mg/kg	10.1	1	10/18/21 11:04	10/18/21 16:36		
Surrogates								
n-Tetracosane (S)	59	%	31-152	1	10/18/21 11:04	10/18/21 16:36	646-31-1	
p-Terphenyl (S)	77	%	46-130	1	10/18/21 11:04	10/18/21 16:36	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	10.3	1	10/18/21 09:58	10/18/21 16:30		
Surrogates								
4-Bromofluorobenzene (S)	98	%	63-121	1	10/18/21 09:58	10/18/21 16:30	460-00-4	

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ANALYTICAL RESULTS

Project: 212C-MD-02099
Pace Project No.: 60383397

Sample: NSW-10 Lab ID: 60383397003 Collected: 10/13/21 11:10 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.2	1	10/18/21 10:58	10/18/21 12:33	71-43-2	
Ethylbenzene	ND	ug/kg	5.2	1	10/18/21 10:58	10/18/21 12:33	100-41-4	
Toluene	ND	ug/kg	5.2	1	10/18/21 10:58	10/18/21 12:33	108-88-3	
Xylene (Total)	ND	ug/kg	15.5	1	10/18/21 10:58	10/18/21 12:33	1330-20-7	
Surrogates								
Toluene-d8 (S)	111	%	80-120	1	10/18/21 10:58	10/18/21 12:33	2037-26-5	
4-Bromofluorobenzene (S)	105	%	83-119	1	10/18/21 10:58	10/18/21 12:33	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	10/18/21 10:58	10/18/21 12:33	2199-69-1	

Percent Moisture

Analytical Method: ASTM D2974
Pace Analytical Services - Kansas City

Percent Moisture	6.2	%	0.50	1		10/18/21 10:57		
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9056 IC Anions

Analytical Method: EPA 9056 Preparation Method: EPA 9056
Pace Analytical Services - Kansas City

Chloride	185	mg/kg	103	10	10/18/21 11:35	10/18/21 20:06	16887-00-6	
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Sample: NSW-11 Lab ID: 60383397004 Collected: 10/13/21 11:15 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.0	1	10/18/21 11:04	10/18/21 16:44		
TPH-ORO (C28-C35)	13.0	mg/kg	10.0	1	10/18/21 11:04	10/18/21 16:44		
Surrogates								
n-Tetracosane (S)	56	%	31-152	1	10/18/21 11:04	10/18/21 16:44	646-31-1	
p-Terphenyl (S)	73	%	46-130	1	10/18/21 11:04	10/18/21 16:44	92-94-4	

Gasoline Range Organics

Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B
Pace Analytical Services - Kansas City

TPH-GRO	ND	mg/kg	10.6	1	10/18/21 09:58	10/18/21 16:46		
Surrogates								
4-Bromofluorobenzene (S)	97	%	63-121	1	10/18/21 09:58	10/18/21 16:46	460-00-4	

8260B MSV 5035A Low Level

Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B
Pace Analytical Services - Kansas City

Benzene	ND	ug/kg	5.3	1	10/18/21 10:58	10/18/21 12:54	71-43-2	
Ethylbenzene	ND	ug/kg	5.3	1	10/18/21 10:58	10/18/21 12:54	100-41-4	
Toluene	ND	ug/kg	5.3	1	10/18/21 10:58	10/18/21 12:54	108-88-3	
Xylene (Total)	ND	ug/kg	15.8	1	10/18/21 10:58	10/18/21 12:54	1330-20-7	
Surrogates								
Toluene-d8 (S)	108	%	80-120	1	10/18/21 10:58	10/18/21 12:54	2037-26-5	

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ANALYTICAL RESULTS

Project: 212C-MD-02099

Pace Project No.: 60383397

Sample: NSW-11 Lab ID: 60383397004 Collected: 10/13/21 11:15 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Surrogates								
4-Bromofluorobenzene (S)	104	%	83-119	1	10/18/21 10:58	10/18/21 12:54	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	10/18/21 10:58	10/18/21 12:54	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	5.2	%	0.50	1		10/18/21 10:58		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	154	mg/kg	105	10	10/18/21 11:35	10/18/21 20:46	16887-00-6	

Sample: SSW-20 Lab ID: 60383397005 Collected: 10/14/21 08:30 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	18.0	mg/kg	11.0	1	10/18/21 11:04	10/18/21 16:52		
TPH-ORO (C28-C35)	24.4	mg/kg	11.0	1	10/18/21 11:04	10/18/21 16:52		
Surrogates								
n-Tetracosane (S)	57	%	31-152	1	10/18/21 11:04	10/18/21 16:52	646-31-1	
p-Terphenyl (S)	76	%	46-130	1	10/18/21 11:04	10/18/21 16:52	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	12.4	1	10/18/21 09:58	10/18/21 17:01		
Surrogates								
4-Bromofluorobenzene (S)	97	%	63-121	1	10/18/21 09:58	10/18/21 17:01	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	6.2	1	10/18/21 10:58	10/18/21 13:14	71-43-2	
Ethylbenzene	ND	ug/kg	6.2	1	10/18/21 10:58	10/18/21 13:14	100-41-4	
Toluene	ND	ug/kg	6.2	1	10/18/21 10:58	10/18/21 13:14	108-88-3	
Xylene (Total)	ND	ug/kg	18.6	1	10/18/21 10:58	10/18/21 13:14	1330-20-7	
Surrogates								
Toluene-d8 (S)	104	%	80-120	1	10/18/21 10:58	10/18/21 13:14	2037-26-5	
4-Bromofluorobenzene (S)	102	%	83-119	1	10/18/21 10:58	10/18/21 13:14	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	10/18/21 10:58	10/18/21 13:14	2199-69-1	

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ANALYTICAL RESULTS

Project: 212C-MD-02099
Pace Project No.: 60383397

Sample: SSW-20 **Lab ID: 60383397005** Collected: 10/14/21 08:30 Received: 10/16/21 09:15 Matrix: Solid
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	11.4	%	0.50	1		10/18/21 10:58		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	2510	mg/kg	225	20	10/18/21 11:35	10/19/21 10:32	16887-00-6	

Sample: SSW-21 **Lab ID: 60383397006** Collected: 10/14/21 08:35 Received: 10/16/21 09:15 Matrix: Solid
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	13.5	mg/kg	10.8	1	10/18/21 11:04	10/18/21 17:00		
TPH-ORO (C28-C35)	15.1	mg/kg	10.8	1	10/18/21 11:04	10/18/21 17:00		
Surrogates								
n-Tetracosane (S)	56	%	31-152	1	10/18/21 11:04	10/18/21 17:00	646-31-1	
p-Terphenyl (S)	75	%	46-130	1	10/18/21 11:04	10/18/21 17:00	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	12.8	1	10/18/21 09:58	10/18/21 17:16		
Surrogates								
4-Bromofluorobenzene (S)	97	%	63-121	1	10/18/21 09:58	10/18/21 17:16	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	6.4	1	10/18/21 10:58	10/18/21 13:34	71-43-2	
Ethylbenzene	ND	ug/kg	6.4	1	10/18/21 10:58	10/18/21 13:34	100-41-4	
Toluene	ND	ug/kg	6.4	1	10/18/21 10:58	10/18/21 13:34	108-88-3	
Xylene (Total)	ND	ug/kg	19.3	1	10/18/21 10:58	10/18/21 13:34	1330-20-7	
Surrogates								
Toluene-d8 (S)	109	%	80-120	1	10/18/21 10:58	10/18/21 13:34	2037-26-5	
4-Bromofluorobenzene (S)	102	%	83-119	1	10/18/21 10:58	10/18/21 13:34	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	1	10/18/21 10:58	10/18/21 13:34	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	12.8	%	0.50	1		10/18/21 10:58		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	2800	mg/kg	224	20	10/18/21 11:35	10/19/21 10:47	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-02099

Pace Project No.: 60383397

Sample: SSW-22 **Lab ID: 60383397007** Collected: 10/14/21 08:40 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	13.2	mg/kg	10.7	1	10/18/21 11:04	10/18/21 17:08		
TPH-ORO (C28-C35)	23.7	mg/kg	10.7	1	10/18/21 11:04	10/18/21 17:08		
Surrogates								
n-Tetracosane (S)	56	%	31-152	1	10/18/21 11:04	10/18/21 17:08	646-31-1	
p-Terphenyl (S)	76	%	46-130	1	10/18/21 11:04	10/18/21 17:08	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.6	1	10/18/21 09:58	10/18/21 17:31		
Surrogates								
4-Bromofluorobenzene (S)	97	%	63-121	1	10/18/21 09:58	10/18/21 17:31	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.8	1	10/18/21 10:58	10/18/21 13:55	71-43-2	
Ethylbenzene	ND	ug/kg	5.8	1	10/18/21 10:58	10/18/21 13:55	100-41-4	
Toluene	ND	ug/kg	5.8	1	10/18/21 10:58	10/18/21 13:55	108-88-3	
Xylene (Total)	ND	ug/kg	17.4	1	10/18/21 10:58	10/18/21 13:55	1330-20-7	
Surrogates								
Toluene-d8 (S)	107	%	80-120	1	10/18/21 10:58	10/18/21 13:55	2037-26-5	
4-Bromofluorobenzene (S)	108	%	83-119	1	10/18/21 10:58	10/18/21 13:55	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	10/18/21 10:58	10/18/21 13:55	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	7.6	%	0.50	1		10/18/21 10:58		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056								
Pace Analytical Services - Kansas City								
Chloride	626	mg/kg	109	10	10/18/21 11:35	10/18/21 21:53	16887-00-6	

Sample: SSW-23 **Lab ID: 60383397008** Collected: 10/14/21 08:45 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	99.7	mg/kg	10.4	1	10/18/21 11:04	10/19/21 09:38		
TPH-ORO (C28-C35)	148	mg/kg	10.4	1	10/18/21 11:04	10/19/21 09:38		
Surrogates								
n-Tetracosane (S)	77	%	31-152	1	10/18/21 11:04	10/19/21 09:38	646-31-1	
p-Terphenyl (S)	85	%	46-130	1	10/18/21 11:04	10/19/21 09:38	92-94-4	

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ANALYTICAL RESULTS

Project: 212C-MD-02099

Pace Project No.: 60383397

Sample: SSW-23 **Lab ID: 60383397008** Collected: 10/14/21 08:45 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.0	1	10/18/21 09:58	10/18/21 17:46		
Surrogates								
4-Bromofluorobenzene (S)	96	%	63-121	1	10/18/21 09:58	10/18/21 17:46	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.5	1	10/18/21 10:58	10/18/21 14:15	71-43-2	
Ethylbenzene	ND	ug/kg	5.5	1	10/18/21 10:58	10/18/21 14:15	100-41-4	
Toluene	ND	ug/kg	5.5	1	10/18/21 10:58	10/18/21 14:15	108-88-3	
Xylene (Total)	ND	ug/kg	16.4	1	10/18/21 10:58	10/18/21 14:15	1330-20-7	
Surrogates								
Toluene-d8 (S)	109	%	80-120	1	10/18/21 10:58	10/18/21 14:15	2037-26-5	
4-Bromofluorobenzene (S)	102	%	83-119	1	10/18/21 10:58	10/18/21 14:15	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1	10/18/21 10:58	10/18/21 14:15	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	9.2	%	0.50	1		10/18/21 10:58		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	659	mg/kg	111	10	10/18/21 11:35	10/18/21 22:06	16887-00-6	

Sample: SSW-24 **Lab ID: 60383397009** Collected: 10/13/21 11:28 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	15.5	mg/kg	10.6	1	10/18/21 11:04	10/18/21 17:24		
TPH-ORO (C28-C35)	33.2	mg/kg	10.6	1	10/18/21 11:04	10/18/21 17:24		
Surrogates								
n-Tetracosane (S)	50	%	31-152	1	10/18/21 11:04	10/18/21 17:24	646-31-1	
p-Terphenyl (S)	66	%	46-130	1	10/18/21 11:04	10/18/21 17:24	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.3	1	10/18/21 09:58	10/18/21 18:01		
Surrogates								
4-Bromofluorobenzene (S)	96	%	63-121	1	10/18/21 09:58	10/18/21 18:01	460-00-4	

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ANALYTICAL RESULTS

Project: 212C-MD-02099

Pace Project No.: 60383397

Sample: SSW-24 Lab ID: 60383397009 Collected: 10/13/21 11:28 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.6	1	10/18/21 10:58	10/18/21 14:35	71-43-2	
Ethylbenzene	ND	ug/kg	5.6	1	10/18/21 10:58	10/18/21 14:35	100-41-4	
Toluene	ND	ug/kg	5.6	1	10/18/21 10:58	10/18/21 14:35	108-88-3	
Xylene (Total)	ND	ug/kg	16.9	1	10/18/21 10:58	10/18/21 14:35	1330-20-7	
Surrogates								
Toluene-d8 (S)	105	%	80-120	1	10/18/21 10:58	10/18/21 14:35	2037-26-5	
4-Bromofluorobenzene (S)	101	%	83-119	1	10/18/21 10:58	10/18/21 14:35	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	80-120	1	10/18/21 10:58	10/18/21 14:35	2199-69-1	

Percent Moisture

Analytical Method: ASTM D2974

Pace Analytical Services - Kansas City

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	10.1	%	0.50	1		10/18/21 10:58		

9056 IC Anions

Analytical Method: EPA 9056 Preparation Method: EPA 9056

Pace Analytical Services - Kansas City

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Chloride	3190	mg/kg	544	50	10/18/21 11:35	10/19/21 11:21	16887-00-6	

Sample: SSW-25 Lab ID: 60383397010 Collected: 10/13/21 11:33 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.9	1	10/18/21 11:04	10/18/21 17:33		
TPH-ORO (C28-C35)	26.0	mg/kg	10.9	1	10/18/21 11:04	10/18/21 17:33		
Surrogates								
n-Tetracosane (S)	58	%	31-152	1	10/18/21 11:04	10/18/21 17:33	646-31-1	
p-Terphenyl (S)	73	%	46-130	1	10/18/21 11:04	10/18/21 17:33	92-94-4	

Gasoline Range Organics

Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B

Pace Analytical Services - Kansas City

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TPH-GRO	ND	mg/kg	12.1	1	10/18/21 09:58	10/18/21 18:16		
Surrogates								
4-Bromofluorobenzene (S)	96	%	63-121	1	10/18/21 09:58	10/18/21 18:16	460-00-4	

8260B MSV 5035A Low Level

Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B

Pace Analytical Services - Kansas City

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Benzene	ND	ug/kg	6.1	1	10/18/21 10:58	10/18/21 14:54	71-43-2	
Ethylbenzene	ND	ug/kg	6.1	1	10/18/21 10:58	10/18/21 14:54	100-41-4	
Toluene	ND	ug/kg	6.1	1	10/18/21 10:58	10/18/21 14:54	108-88-3	
Xylene (Total)	ND	ug/kg	18.2	1	10/18/21 10:58	10/18/21 14:54	1330-20-7	
Surrogates								
Toluene-d8 (S)	103	%	80-120	1	10/18/21 10:58	10/18/21 14:54	2037-26-5	

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ANALYTICAL RESULTS

Project: 212C-MD-02099

Pace Project No.: 60383397

Sample: SSW-25 Lab ID: 60383397010 Collected: 10/13/21 11:33 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Surrogates								
4-Bromofluorobenzene (S)	99	%	83-119	1	10/18/21 10:58	10/18/21 14:54	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	10/18/21 10:58	10/18/21 14:54	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	10.9	%	0.50	1		10/18/21 10:58		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	4020	mg/kg	562	50	10/18/21 11:35	10/19/21 11:32	16887-00-6	

Sample: SSW-26 Lab ID: 60383397011 Collected: 10/13/21 11:40 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	11.1	1	10/18/21 11:04	10/18/21 17:41		
TPH-ORO (C28-C35)	17.5	mg/kg	11.1	1	10/18/21 11:04	10/18/21 17:41		
Surrogates								
n-Tetracosane (S)	52	%	31-152	1	10/18/21 11:04	10/18/21 17:41	646-31-1	
p-Terphenyl (S)	68	%	46-130	1	10/18/21 11:04	10/18/21 17:41	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	12.4	1	10/18/21 09:58	10/18/21 19:03		
Surrogates								
4-Bromofluorobenzene (S)	95	%	63-121	1	10/18/21 09:58	10/18/21 19:03	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	6.2	1	10/18/21 10:58	10/18/21 15:14	71-43-2	
Ethylbenzene	ND	ug/kg	6.2	1	10/18/21 10:58	10/18/21 15:14	100-41-4	
Toluene	ND	ug/kg	6.2	1	10/18/21 10:58	10/18/21 15:14	108-88-3	
Xylene (Total)	ND	ug/kg	18.6	1	10/18/21 10:58	10/18/21 15:14	1330-20-7	
Surrogates								
Toluene-d8 (S)	105	%	80-120	1	10/18/21 10:58	10/18/21 15:14	2037-26-5	
4-Bromofluorobenzene (S)	99	%	83-119	1	10/18/21 10:58	10/18/21 15:14	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	10/18/21 10:58	10/18/21 15:14	2199-69-1	

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ANALYTICAL RESULTS

Project: 212C-MD-02099

Pace Project No.: 60383397

Sample: SSW-26 **Lab ID: 60383397011** Collected: 10/13/21 11:40 Received: 10/16/21 09:15 Matrix: Solid*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	11.1	%	0.50	1		10/18/21 10:58		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	3630	mg/kg	560	50	10/18/21 11:35	10/19/21 11:43	16887-00-6	

Sample: SSW-24 (6') **Lab ID: 60383397012** Collected: 10/14/21 09:29 Received: 10/16/21 09:15 Matrix: Solid*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.5	1	10/18/21 11:04	10/18/21 17:49		
TPH-ORO (C28-C35)	12.1	mg/kg	10.5	1	10/18/21 11:04	10/18/21 17:49		
Surrogates								
n-Tetracosane (S)	59	%	31-152	1	10/18/21 11:04	10/18/21 17:49	646-31-1	
p-Terphenyl (S)	78	%	46-130	1	10/18/21 11:04	10/18/21 17:49	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	10.5	1	10/18/21 09:58	10/18/21 19:18		
Surrogates								
4-Bromofluorobenzene (S)	96	%	63-121	1	10/18/21 09:58	10/18/21 19:18	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.3	1	10/18/21 10:58	10/18/21 15:35	71-43-2	
Ethylbenzene	ND	ug/kg	5.3	1	10/18/21 10:58	10/18/21 15:35	100-41-4	
Toluene	ND	ug/kg	5.3	1	10/18/21 10:58	10/18/21 15:35	108-88-3	
Xylene (Total)	ND	ug/kg	15.8	1	10/18/21 10:58	10/18/21 15:35	1330-20-7	
Surrogates								
Toluene-d8 (S)	105	%	80-120	1	10/18/21 10:58	10/18/21 15:35	2037-26-5	
4-Bromofluorobenzene (S)	100	%	83-119	1	10/18/21 10:58	10/18/21 15:35	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	10/18/21 10:58	10/18/21 15:35	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	5.9	%	0.50	1		10/18/21 10:58		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	126	mg/kg	104	10	10/18/21 11:35	10/18/21 22:59	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-02099

Pace Project No.: 60383397

Sample: SSW-25 (4') **Lab ID: 60383397013** Collected: 10/14/21 09:35 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	9.9	1	10/18/21 11:04	10/18/21 18:13		
TPH-ORO (C28-C35)	14.4	mg/kg	9.9	1	10/18/21 11:04	10/18/21 18:13		
Surrogates								
n-Tetracosane (S)	58	%	31-152	1	10/18/21 11:04	10/18/21 18:13	646-31-1	
p-Terphenyl (S)	78	%	46-130	1	10/18/21 11:04	10/18/21 18:13	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	9.7	1	10/18/21 09:58	10/18/21 19:33		
Surrogates								
4-Bromofluorobenzene (S)	95	%	63-121	1	10/18/21 09:58	10/18/21 19:33	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	4.8	1	10/18/21 10:58	10/18/21 15:55	71-43-2	
Ethylbenzene	ND	ug/kg	4.8	1	10/18/21 10:58	10/18/21 15:55	100-41-4	
Toluene	ND	ug/kg	4.8	1	10/18/21 10:58	10/18/21 15:55	108-88-3	
Xylene (Total)	ND	ug/kg	14.5	1	10/18/21 10:58	10/18/21 15:55	1330-20-7	
Surrogates								
Toluene-d8 (S)	108	%	80-120	1	10/18/21 10:58	10/18/21 15:55	2037-26-5	
4-Bromofluorobenzene (S)	102	%	83-119	1	10/18/21 10:58	10/18/21 15:55	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	10/18/21 10:58	10/18/21 15:55	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	4.7	%	0.50	1		10/18/21 10:58		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056								
Pace Analytical Services - Kansas City								
Chloride	301	mg/kg	103	10	10/18/21 11:35	10/18/21 23:13	16887-00-6	

Sample: SSW-26 (6') **Lab ID: 60383397014** Collected: 10/14/21 09:45 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	18.6	mg/kg	10.1	1	10/18/21 11:04	10/18/21 18:21		
TPH-ORO (C28-C35)	31.2	mg/kg	10.1	1	10/18/21 11:04	10/18/21 18:21		
Surrogates								
n-Tetracosane (S)	61	%	31-152	1	10/18/21 11:04	10/18/21 18:21	646-31-1	
p-Terphenyl (S)	78	%	46-130	1	10/18/21 11:04	10/18/21 18:21	92-94-4	

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ANALYTICAL RESULTS

Project: 212C-MD-02099

Pace Project No.: 60383397

Sample: SSW-26 (6') Lab ID: 60383397014 Collected: 10/14/21 09:45 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	10.6	1	10/18/21 09:58	10/18/21 19:48		
Surrogates								
4-Bromofluorobenzene (S)	96	%	63-121	1	10/18/21 09:58	10/18/21 19:48	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.3	1	10/18/21 10:58	10/18/21 16:15	71-43-2	
Ethylbenzene	ND	ug/kg	5.3	1	10/18/21 10:58	10/18/21 16:15	100-41-4	
Toluene	ND	ug/kg	5.3	1	10/18/21 10:58	10/18/21 16:15	108-88-3	
Xylene (Total)	ND	ug/kg	15.8	1	10/18/21 10:58	10/18/21 16:15	1330-20-7	
Surrogates								
Toluene-d8 (S)	104	%	80-120	1	10/18/21 10:58	10/18/21 16:15	2037-26-5	
4-Bromofluorobenzene (S)	99	%	83-119	1	10/18/21 10:58	10/18/21 16:15	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	10/18/21 10:58	10/18/21 16:15	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	4.3	%	0.50	1		10/18/21 10:58		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	ND	mg/kg	102	10	10/18/21 11:35	10/18/21 23:26	16887-00-6	

Sample: NSW-9 (3') Lab ID: 60383397015 Collected: 10/14/21 10:00 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.4	1	10/18/21 11:04	10/18/21 18:29		
TPH-ORO (C28-C35)	17.6	mg/kg	10.4	1	10/18/21 11:04	10/18/21 18:29		
Surrogates								
n-Tetracosane (S)	63	%	31-152	1	10/18/21 11:04	10/18/21 18:29	646-31-1	
p-Terphenyl (S)	81	%	46-130	1	10/18/21 11:04	10/18/21 18:29	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	10.1	1	10/18/21 09:58	10/18/21 21:17		
Surrogates								
4-Bromofluorobenzene (S)	101	%	63-121	1	10/18/21 09:58	10/18/21 21:17	460-00-4	

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ANALYTICAL RESULTS

Project: 212C-MD-02099

Pace Project No.: 60383397

Sample: NSW-9 (3') Lab ID: 60383397015 Collected: 10/14/21 10:00 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.0	1	10/18/21 10:58	10/18/21 16:35	71-43-2	
Ethylbenzene	ND	ug/kg	5.0	1	10/18/21 10:58	10/18/21 16:35	100-41-4	
Toluene	ND	ug/kg	5.0	1	10/18/21 10:58	10/18/21 16:35	108-88-3	
Xylene (Total)	ND	ug/kg	15.1	1	10/18/21 10:58	10/18/21 16:35	1330-20-7	
Surrogates								
Toluene-d8 (S)	103	%	80-120	1	10/18/21 10:58	10/18/21 16:35	2037-26-5	
4-Bromofluorobenzene (S)	99	%	83-119	1	10/18/21 10:58	10/18/21 16:35	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	10/18/21 10:58	10/18/21 16:35	2199-69-1	

Percent Moisture

Analytical Method: ASTM D2974

Pace Analytical Services - Kansas City

Percent Moisture	6.0	%	0.50	1		10/18/21 10:58		
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9056 IC Anions

Analytical Method: EPA 9056 Preparation Method: EPA 9056

Pace Analytical Services - Kansas City

Chloride	136	mg/kg	104	10	10/18/21 11:35	10/18/21 23:40	16887-00-6	
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Sample: SSW-20 (8') Lab ID: 60383397016 Collected: 10/15/21 08:15 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	323	mg/kg	99.8	10	10/18/21 11:04	10/18/21 18:38		
TPH-ORO (C28-C35)	490	mg/kg	99.8	10	10/18/21 11:04	10/18/21 18:38		
Surrogates								
n-Tetracosane (S)	0	%	31-152	10	10/18/21 11:04	10/18/21 18:38	646-31-1	S4
p-Terphenyl (S)	0	%	46-130	10	10/18/21 11:04	10/18/21 18:38	92-94-4	S4

Gasoline Range Organics

Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B

Pace Analytical Services - Kansas City

TPH-GRO	ND	mg/kg	10.6	1	10/18/21 09:58	10/18/21 21:32		
Surrogates								
4-Bromofluorobenzene (S)	96	%	63-121	1	10/18/21 09:58	10/18/21 21:32	460-00-4	

8260B MSV 5035A Low Level

Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B

Pace Analytical Services - Kansas City

Benzene	ND	ug/kg	5.3	1	10/18/21 10:58	10/18/21 16:54	71-43-2	
Ethylbenzene	ND	ug/kg	5.3	1	10/18/21 10:58	10/18/21 16:54	100-41-4	
Toluene	ND	ug/kg	5.3	1	10/18/21 10:58	10/18/21 16:54	108-88-3	
Xylene (Total)	ND	ug/kg	15.9	1	10/18/21 10:58	10/18/21 16:54	1330-20-7	
Surrogates								
Toluene-d8 (S)	103	%	80-120	1	10/18/21 10:58	10/18/21 16:54	2037-26-5	

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ANALYTICAL RESULTS

Project: 212C-MD-02099

Pace Project No.: 60383397

Sample: SSW-20 (8') Lab ID: 60383397016 Collected: 10/15/21 08:15 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Surrogates								
4-Bromofluorobenzene (S)	98	%	83-119	1	10/18/21 10:58	10/18/21 16:54	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1	10/18/21 10:58	10/18/21 16:54	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	4.2	%	0.50	1		10/18/21 10:59		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	ND	mg/kg	104	10	10/18/21 11:35	10/19/21 00:20	16887-00-6	

Sample: SSW-21 (8') Lab ID: 60383397017 Collected: 10/15/21 08:20 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	259	mg/kg	98.6	10	10/18/21 11:04	10/18/21 18:46		
TPH-ORO (C28-C35)	466	mg/kg	98.6	10	10/18/21 11:04	10/18/21 18:46		
Surrogates								
n-Tetracosane (S)	0	%	31-152	10	10/18/21 11:04	10/18/21 18:46	646-31-1	S4
p-Terphenyl (S)	0	%	46-130	10	10/18/21 11:04	10/18/21 18:46	92-94-4	S4
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.0	1	10/18/21 09:58	10/18/21 21:47		
Surrogates								
4-Bromofluorobenzene (S)	98	%	63-121	1	10/18/21 09:58	10/18/21 21:47	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.5	1	10/18/21 10:58	10/18/21 17:14	71-43-2	
Ethylbenzene	ND	ug/kg	5.5	1	10/18/21 10:58	10/18/21 17:14	100-41-4	
Toluene	ND	ug/kg	5.5	1	10/18/21 10:58	10/18/21 17:14	108-88-3	
Xylene (Total)	ND	ug/kg	16.4	1	10/18/21 10:58	10/18/21 17:14	1330-20-7	
Surrogates								
Toluene-d8 (S)	103	%	80-120	1	10/18/21 10:58	10/18/21 17:14	2037-26-5	
4-Bromofluorobenzene (S)	98	%	83-119	1	10/18/21 10:58	10/18/21 17:14	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1	10/18/21 10:58	10/18/21 17:14	2199-69-1	

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ANALYTICAL RESULTS

Project: 212C-MD-02099
Pace Project No.: 60383397

Sample: SSW-21 (8')		Lab ID: 60383397017		Collected: 10/15/21 08:20		Received: 10/16/21 09:15		Matrix: Solid	
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.									
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture		Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City							
Percent Moisture	4.4	%	0.50	1		10/18/21 10:59			
9056 IC Anions		Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City							
Chloride	ND	mg/kg	103	10	10/18/21 11:35	10/19/21 00:33	16887-00-6		

Sample: SSW-22 (4')		Lab ID: 60383397018		Collected: 10/15/21 08:25		Received: 10/16/21 09:15		Matrix: Solid	
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.									
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8015B Diesel Range Organics		Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City							
TPH-DRO (C10-C28)	269	mg/kg	99.9	10	10/18/21 11:04	10/18/21 18:54			
TPH-ORO (C28-C35)	500	mg/kg	99.9	10	10/18/21 11:04	10/18/21 18:54			
Surrogates									
n-Tetracosane (S)	0	%	31-152	10	10/18/21 11:04	10/18/21 18:54	646-31-1	S4	
p-Terphenyl (S)	0	%	46-130	10	10/18/21 11:04	10/18/21 18:54	92-94-4	S4	

Gasoline Range Organics		Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City						
TPH-GRO	ND	mg/kg	10.1	1	10/18/21 09:58	10/18/21 22:02		
Surrogates								
4-Bromofluorobenzene (S)	96	%	63-121	1	10/18/21 09:58	10/18/21 22:02	460-00-4	
8260B MSV 5035A Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City						
Benzene	ND	ug/kg	5.4	1	10/18/21 10:58	10/18/21 17:33	71-43-2	
Ethylbenzene	ND	ug/kg	5.4	1	10/18/21 10:58	10/18/21 17:33	100-41-4	
Toluene	ND	ug/kg	5.4	1	10/18/21 10:58	10/18/21 17:33	108-88-3	
Xylene (Total)	ND	ug/kg	16.2	1	10/18/21 10:58	10/18/21 17:33	1330-20-7	
Surrogates								
Toluene-d8 (S)	102	%	80-120	1	10/18/21 10:58	10/18/21 17:33	2037-26-5	
4-Bromofluorobenzene (S)	100	%	83-119	1	10/18/21 10:58	10/18/21 17:33	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	80-120	1	10/18/21 10:58	10/18/21 17:33	2199-69-1	

Percent Moisture		Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City						
Percent Moisture	4.6	%	0.50	1		10/18/21 10:59		
9056 IC Anions		Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City						
Chloride	ND	mg/kg	106	10	10/18/21 11:35	10/19/21 00:46	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-02099

Pace Project No.: 60383397

Sample: FS-8 Lab ID: 60383397019 Collected: 10/15/21 08:30 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.9	1	10/18/21 11:04	10/19/21 10:03		
TPH-ORO (C28-C35)	ND	mg/kg	10.9	1	10/18/21 11:04	10/19/21 10:03		
Surrogates								
n-Tetracosane (S)	53	%	31-152	1	10/18/21 11:04	10/19/21 10:03	646-31-1	
p-Terphenyl (S)	65	%	46-130	1	10/18/21 11:04	10/19/21 10:03	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.1	1	10/18/21 09:58	10/18/21 22:47		
Surrogates								
4-Bromofluorobenzene (S)	97	%	63-121	1	10/18/21 09:58	10/18/21 22:47	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.6	1	10/18/21 10:58	10/18/21 17:52	71-43-2	
Ethylbenzene	ND	ug/kg	5.6	1	10/18/21 10:58	10/18/21 17:52	100-41-4	
Toluene	ND	ug/kg	5.6	1	10/18/21 10:58	10/18/21 17:52	108-88-3	
Xylene (Total)	ND	ug/kg	16.7	1	10/18/21 10:58	10/18/21 17:52	1330-20-7	
Surrogates								
Toluene-d8 (S)	110	%	80-120	1	10/18/21 10:58	10/18/21 17:52	2037-26-5	
4-Bromofluorobenzene (S)	101	%	83-119	1	10/18/21 10:58	10/18/21 17:52	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	10/18/21 10:58	10/18/21 17:52	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	8.4	%	0.50	1		10/18/21 10:59		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056								
Pace Analytical Services - Kansas City								
Chloride	10300	mg/kg	1080	100	10/18/21 11:35	10/19/21 11:55	16887-00-6	

Sample: FS-12 Lab ID: 60383397020 Collected: 10/15/21 08:35 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	13.4	mg/kg	10.4	1	10/18/21 11:04	10/18/21 19:10		
TPH-ORO (C28-C35)	17.1	mg/kg	10.4	1	10/18/21 11:04	10/18/21 19:10		
Surrogates								
n-Tetracosane (S)	63	%	31-152	1	10/18/21 11:04	10/18/21 19:10	646-31-1	
p-Terphenyl (S)	75	%	46-130	1	10/18/21 11:04	10/18/21 19:10	92-94-4	

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ANALYTICAL RESULTS

Project: 212C-MD-02099

Pace Project No.: 60383397

Sample: FS-12 Lab ID: 60383397020 Collected: 10/15/21 08:35 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	10.4	1	10/18/21 09:58	10/18/21 23:03		
Surrogates								
4-Bromofluorobenzene (S)	98	%	63-121	1	10/18/21 09:58	10/18/21 23:03	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.2	1	10/18/21 10:58	10/18/21 18:12	71-43-2	
Ethylbenzene	ND	ug/kg	5.2	1	10/18/21 10:58	10/18/21 18:12	100-41-4	
Toluene	ND	ug/kg	5.2	1	10/18/21 10:58	10/18/21 18:12	108-88-3	
Xylene (Total)	ND	ug/kg	15.6	1	10/18/21 10:58	10/18/21 18:12	1330-20-7	
Surrogates								
Toluene-d8 (S)	107	%	80-120	1	10/18/21 10:58	10/18/21 18:12	2037-26-5	
4-Bromofluorobenzene (S)	100	%	83-119	1	10/18/21 10:58	10/18/21 18:12	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1	10/18/21 10:58	10/18/21 18:12	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	6.2	%	0.50	1		10/18/21 10:59		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	15600	mg/kg	2120	200	10/18/21 11:35	10/19/21 12:06	16887-00-6	

Sample: FS-13 Lab ID: 60383397021 Collected: 10/15/21 08:40 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.6	1	10/18/21 15:57	10/19/21 09:14		R1
TPH-ORO (C28-C35)	ND	mg/kg	10.6	1	10/18/21 15:57	10/19/21 09:14		
Surrogates								
n-Tetracosane (S)	88	%	31-152	1	10/18/21 15:57	10/19/21 09:14	646-31-1	
p-Terphenyl (S)	47	%	46-130	1	10/18/21 15:57	10/19/21 09:14	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.8	1	10/18/21 10:24	10/19/21 00:20		
Surrogates								
4-Bromofluorobenzene (S)	98	%	63-121	1	10/18/21 10:24	10/19/21 00:20	460-00-4	

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ANALYTICAL RESULTS

Project: 212C-MD-02099

Pace Project No.: 60383397

Sample: FS-13 Lab ID: 60383397021 Collected: 10/15/21 08:40 Received: 10/16/21 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.9	1	10/18/21 13:48	10/18/21 23:27	71-43-2	
Ethylbenzene	ND	ug/kg	5.9	1	10/18/21 13:48	10/18/21 23:27	100-41-4	
Toluene	ND	ug/kg	5.9	1	10/18/21 13:48	10/18/21 23:27	108-88-3	
Xylene (Total)	ND	ug/kg	17.7	1	10/18/21 13:48	10/18/21 23:27	1330-20-7	
Surrogates								
Toluene-d8 (S)	109	%	80-120	1	10/18/21 13:48	10/18/21 23:27	2037-26-5	
4-Bromofluorobenzene (S)	100	%	83-119	1	10/18/21 13:48	10/18/21 23:27	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	80-120	1	10/18/21 13:48	10/18/21 23:27	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	8.3	%	0.50	1		10/18/21 11:01		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056								
Pace Analytical Services - Kansas City								
Chloride	9760	mg/kg	1070	100	10/18/21 11:35	10/19/21 09:16	16887-00-6	M1

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QUALITY CONTROL DATA

Project: 212C-MD-02099
Pace Project No.: 60383397

QC Batch:	750069	Analysis Method:	EPA 8015B
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	Gasoline Range Organics
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60383397001, 60383397002, 60383397003, 60383397004, 60383397005, 60383397006, 60383397007, 60383397008, 60383397009, 60383397010, 60383397011, 60383397012, 60383397013, 60383397014, 60383397015, 60383397016, 60383397017, 60383397018, 60383397019, 60383397020		

METHOD BLANK:	3003646	Matrix:	Solid
Associated Lab Samples:	60383397001, 60383397002, 60383397003, 60383397004, 60383397005, 60383397006, 60383397007, 60383397008, 60383397009, 60383397010, 60383397011, 60383397012, 60383397013, 60383397014, 60383397015, 60383397016, 60383397017, 60383397018, 60383397019, 60383397020		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	10/18/21 15:44	
4-Bromofluorobenzene (S)	%	97	63-121	10/18/21 15:44	

LABORATORY CONTROL SAMPLE: 3003647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	52.4	105	71-107	
4-Bromofluorobenzene (S)	%			99	63-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3003648 3003649

Parameter	Units	60383397014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-GRO	mg/kg	ND	53.3	53.3	46.7	58.4	86	108	29-143	22	26	
4-Bromofluorobenzene (S)	%						58	97	63-121			S0

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QUALITY CONTROL DATA

Project: 212C-MD-02099

Pace Project No.: 60383397

QC Batch:	750070	Analysis Method:	EPA 8015B
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	Gasoline Range Organics
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60383397021		

METHOD BLANK: 3003650 Matrix: Solid

Associated Lab Samples: 60383397021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	10/19/21 00:04	
4-Bromofluorobenzene (S)	%	97	63-121	10/19/21 00:04	

LABORATORY CONTROL SAMPLE: 3003651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	48.4	97	71-107	
4-Bromofluorobenzene (S)	%			99	63-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3003652 3003653

Parameter	Units	60383311003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-GRO	mg/kg	ND	51.9	51.9	50.9	50.2	96	95	29-143	1	26	
4-Bromofluorobenzene (S)	%						98	99	63-121			

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QUALITY CONTROL DATA

Project: 212C-MD-02099
Pace Project No.: 60383397

QC Batch:	750067	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	8260B MSV 5035A Low Level
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60383397001, 60383397002, 60383397003, 60383397004, 60383397005, 60383397006, 60383397007, 60383397008, 60383397009, 60383397010, 60383397011, 60383397012, 60383397013, 60383397014, 60383397015, 60383397016, 60383397017, 60383397018, 60383397019, 60383397020		

METHOD BLANK:	3003633	Matrix:	Solid
Associated Lab Samples:	60383397001, 60383397002, 60383397003, 60383397004, 60383397005, 60383397006, 60383397007, 60383397008, 60383397009, 60383397010, 60383397011, 60383397012, 60383397013, 60383397014, 60383397015, 60383397016, 60383397017, 60383397018, 60383397019, 60383397020		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	10/18/21 10:32	
Ethylbenzene	ug/kg	ND	5.0	10/18/21 10:32	
Toluene	ug/kg	ND	5.0	10/18/21 10:32	
Xylene (Total)	ug/kg	ND	15.0	10/18/21 10:32	
1,2-Dichlorobenzene-d4 (S)	%	97	80-120	10/18/21 10:32	
4-Bromofluorobenzene (S)	%	109	83-119	10/18/21 10:32	
Toluene-d8 (S)	%	114	80-120	10/18/21 10:32	

LABORATORY CONTROL SAMPLE: 3003634

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	1250	1290	103	67-126	
Ethylbenzene	ug/kg	1250	1390	111	69-127	
Toluene	ug/kg	1250	1350	108	80-118	
Xylene (Total)	ug/kg	3750	4170	111	69-130	
1,2-Dichlorobenzene-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			101	83-119	
Toluene-d8 (S)	%			95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3003635 3003636

Parameter	Units	60383397001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	1380	1380	1370	1420	99	103	17-134	4	53	
Ethylbenzene	ug/kg	ND	1380	1380	1350	1420	97	102	10-137	5	60	
Toluene	ug/kg	8.8	1380	1380	1330	1370	96	98	13-131	3	60	
Xylene (Total)	ug/kg	27.9	4150	4150	4150	4280	99	102	10-137	3	58	
1,2-Dichlorobenzene-d4 (S)	%						99	98	80-120			
4-Bromofluorobenzene (S)	%						100	98	83-119			
Toluene-d8 (S)	%						94	94	80-120			

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QUALITY CONTROL DATA

Project: 212C-MD-02099

Pace Project No.: 60383397

QC Batch:	750152	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	8260B MSV 5035A Low Level
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60383397021		

METHOD BLANK: 3003943 Matrix: Solid

Associated Lab Samples: 60383397021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	10/18/21 23:07	
Ethylbenzene	ug/kg	ND	5.0	10/18/21 23:07	
Toluene	ug/kg	ND	5.0	10/18/21 23:07	
Xylene (Total)	ug/kg	ND	15.0	10/18/21 23:07	
1,2-Dichlorobenzene-d4 (S)	%	97	80-120	10/18/21 23:07	
4-Bromofluorobenzene (S)	%	103	83-119	10/18/21 23:07	
Toluene-d8 (S)	%	109	80-120	10/18/21 23:07	

LABORATORY CONTROL SAMPLE: 3003944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	1250	1280	102	67-126	
Ethylbenzene	ug/kg	1250	1250	100	69-127	
Toluene	ug/kg	1250	1240	99	80-118	
Xylene (Total)	ug/kg	3750	3760	100	69-130	
1,2-Dichlorobenzene-d4 (S)	%			96	80-120	
4-Bromofluorobenzene (S)	%			98	83-119	
Toluene-d8 (S)	%			95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3003945 3003946

Parameter	Units	60383376006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	2100	2100	2130	2020	101	96	17-134	5	53	
Ethylbenzene	ug/kg	ND	2100	2100	2090	2000	100	95	10-137	5	60	
Toluene	ug/kg	ND	2100	2100	2060	1950	98	93	13-131	5	60	
Xylene (Total)	ug/kg	ND	6300	6300	6380	6010	101	95	10-137	6	58	
1,2-Dichlorobenzene-d4 (S)	%						100	99	80-120			
4-Bromofluorobenzene (S)	%						99	98	83-119			
Toluene-d8 (S)	%						95	95	80-120			

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QUALITY CONTROL DATA

Project: 212C-MD-02099

Pace Project No.: 60383397

QC Batch:	750046	Analysis Method:	EPA 8015B
QC Batch Method:	EPA 3546	Analysis Description:	EPA 8015B
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60383397001, 60383397002, 60383397003, 60383397004, 60383397005, 60383397006, 60383397007, 60383397008, 60383397009, 60383397010, 60383397011, 60383397012, 60383397013, 60383397014, 60383397015, 60383397016, 60383397017, 60383397018, 60383397019, 60383397020		

METHOD BLANK: 3003557

Matrix: Solid

Associated Lab Samples: 60383397001, 60383397002, 60383397003, 60383397004, 60383397005, 60383397006, 60383397007, 60383397008, 60383397009, 60383397010, 60383397011, 60383397012, 60383397013, 60383397014, 60383397015, 60383397016, 60383397017, 60383397018, 60383397019, 60383397020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO (C10-C28)	mg/kg	ND	9.8	10/18/21 15:47	
TPH-ORO (C28-C35)	mg/kg	ND	9.8	10/18/21 15:47	
n-Tetracosane (S)	%	62	31-152	10/18/21 15:47	
p-Terphenyl (S)	%	85	46-130	10/18/21 15:47	

LABORATORY CONTROL SAMPLE: 3003558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO (C10-C28)	mg/kg	78.4	62.6	80	74-124	
n-Tetracosane (S)	%			64	31-152	
p-Terphenyl (S)	%			87	46-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3003559 3003560

Parameter	Units	60383397001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
TPH-DRO (C10-C28)	mg/kg	ND	522	532	432	455	81	84	30-130	5	35
n-Tetracosane (S)	%						65	66	31-152		
p-Terphenyl (S)	%						85	86	46-130		

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QUALITY CONTROL DATA

Project: 212C-MD-02099
Pace Project No.: 60383397

QC Batch:	750047	Analysis Method:	EPA 8015B
QC Batch Method:	EPA 3546	Analysis Description:	EPA 8015B
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60383397021

METHOD BLANK: 3003561 Matrix: Solid

Associated Lab Samples: 60383397021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO (C10-C28)	mg/kg	ND	9.8	10/19/21 08:58	
TPH-ORO (C28-C35)	mg/kg	ND	9.8	10/19/21 08:58	
n-Tetracosane (S)	%	106	31-152	10/19/21 08:58	
p-Terphenyl (S)	%	74	46-130	10/19/21 08:58	

LABORATORY CONTROL SAMPLE: 3003562

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO (C10-C28)	mg/kg	81.1	68.1	84	74-124	
n-Tetracosane (S)	%			184	31-152	S1
p-Terphenyl (S)	%			83	46-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3003563 3003564

Parameter	Units	60383397021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-DRO (C10-C28)	mg/kg	ND	90.3	122	58.5	97.0	59	75	30-130	49	35	R1
n-Tetracosane (S)	%						68	95	31-152			
p-Terphenyl (S)	%						46	59	46-130			

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QUALITY CONTROL DATA

Project: 212C-MD-02099

Pace Project No.: 60383397

QC Batch: 750040

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60383397001, 60383397002, 60383397003, 60383397004, 60383397005, 60383397006, 60383397007, 60383397008, 60383397009, 60383397010, 60383397011, 60383397012, 60383397013, 60383397014, 60383397015, 60383397016, 60383397017, 60383397018, 60383397019, 60383397020

METHOD BLANK: 3003538

Matrix: Solid

Associated Lab Samples: 60383397001, 60383397002, 60383397003, 60383397004, 60383397005, 60383397006, 60383397007, 60383397008, 60383397009, 60383397010, 60383397011, 60383397012, 60383397013, 60383397014, 60383397015, 60383397016, 60383397017, 60383397018, 60383397019, 60383397020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	10/18/21 10:57	

SAMPLE DUPLICATE: 3003539

Parameter	Units	60383397001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.5	7.5	1	20	

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QUALITY CONTROL DATA

Project: 212C-MD-02099

Pace Project No.: 60383397

QC Batch: 750053

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60383397021

METHOD BLANK: 3003575

Matrix: Solid

Associated Lab Samples: 60383397021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	10/18/21 11:02	

SAMPLE DUPLICATE: 3003576

Parameter	Units	60383397021 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.3	7.7	8	20	

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QUALITY CONTROL DATA

Project: 212C-MD-02099

Pace Project No.: 60383397

QC Batch:	750045	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60383397001, 60383397002, 60383397003, 60383397004, 60383397005, 60383397006, 60383397007, 60383397008, 60383397009, 60383397010, 60383397011, 60383397012, 60383397013, 60383397014, 60383397015, 60383397016, 60383397017, 60383397018, 60383397019, 60383397020		

METHOD BLANK:	3003552	Matrix:	Solid
Associated Lab Samples:	60383397001, 60383397002, 60383397003, 60383397004, 60383397005, 60383397006, 60383397007, 60383397008, 60383397009, 60383397010, 60383397011, 60383397012, 60383397013, 60383397014, 60383397015, 60383397016, 60383397017, 60383397018, 60383397019, 60383397020		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	100	10/18/21 18:59	

LABORATORY CONTROL SAMPLE:	3003553					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	500	497	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3003554			3003555								
Parameter	Units	60383397003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/kg	185	519	519	633	610	86	82	80-120	4	15	

SAMPLE DUPLICATE: 3003556						
Parameter	Units	60383397002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/kg	927	934	1	15	

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QUALITY CONTROL DATA

Project: 212C-MD-02099

Pace Project No.: 60383397

QC Batch: 750131

Analysis Method: EPA 9056

QC Batch Method: EPA 9056

Analysis Description: 9056 IC Anions

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60383397021

METHOD BLANK: 3003893

Matrix: Solid

Associated Lab Samples: 60383397021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	100	10/19/21 08:19	

LABORATORY CONTROL SAMPLE: 3003894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	500	488	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3003895 3003896

Parameter	Units	60383397021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/kg	9760	530	530	12400	12300	497	482	80-120	1	15	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 212C-MD-02099
Pace Project No.: 60383397

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
S1	Surrogate recovery outside laboratory control limits (confirmed by re-analysis).
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 212C-MD-02099
Pace Project No.: 60383397

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60383397001	NSW-8	EPA 3546	750046	EPA 8015B	750237
60383397002	NSW-9	EPA 3546	750046	EPA 8015B	750237
60383397003	NSW-10	EPA 3546	750046	EPA 8015B	750237
60383397004	NSW-11	EPA 3546	750046	EPA 8015B	750237
60383397005	SSW-20	EPA 3546	750046	EPA 8015B	750237
60383397006	SSW-21	EPA 3546	750046	EPA 8015B	750237
60383397007	SSW-22	EPA 3546	750046	EPA 8015B	750237
60383397008	SSW-23	EPA 3546	750046	EPA 8015B	750237
60383397009	SSW-24	EPA 3546	750046	EPA 8015B	750237
60383397010	SSW-25	EPA 3546	750046	EPA 8015B	750237
60383397011	SSW-26	EPA 3546	750046	EPA 8015B	750237
60383397012	SSW-24 (6')	EPA 3546	750046	EPA 8015B	750237
60383397013	SSW-25 (4')	EPA 3546	750046	EPA 8015B	750237
60383397014	SSW-26 (6')	EPA 3546	750046	EPA 8015B	750237
60383397015	NSW-9 (3')	EPA 3546	750046	EPA 8015B	750237
60383397016	SSW-20 (8')	EPA 3546	750046	EPA 8015B	750237
60383397017	SSW-21 (8')	EPA 3546	750046	EPA 8015B	750237
60383397018	SSW-22 (4')	EPA 3546	750046	EPA 8015B	750237
60383397019	FS-8	EPA 3546	750046	EPA 8015B	750237
60383397020	FS-12	EPA 3546	750046	EPA 8015B	750237
60383397021	FS-13	EPA 3546	750047	EPA 8015B	750328
60383397001	NSW-8	EPA 5035A/5030B	750069	EPA 8015B	750128
60383397002	NSW-9	EPA 5035A/5030B	750069	EPA 8015B	750128
60383397003	NSW-10	EPA 5035A/5030B	750069	EPA 8015B	750128
60383397004	NSW-11	EPA 5035A/5030B	750069	EPA 8015B	750128
60383397005	SSW-20	EPA 5035A/5030B	750069	EPA 8015B	750128
60383397006	SSW-21	EPA 5035A/5030B	750069	EPA 8015B	750128
60383397007	SSW-22	EPA 5035A/5030B	750069	EPA 8015B	750128
60383397008	SSW-23	EPA 5035A/5030B	750069	EPA 8015B	750128
60383397009	SSW-24	EPA 5035A/5030B	750069	EPA 8015B	750128
60383397010	SSW-25	EPA 5035A/5030B	750069	EPA 8015B	750128
60383397011	SSW-26	EPA 5035A/5030B	750069	EPA 8015B	750128
60383397012	SSW-24 (6')	EPA 5035A/5030B	750069	EPA 8015B	750128
60383397013	SSW-25 (4')	EPA 5035A/5030B	750069	EPA 8015B	750128
60383397014	SSW-26 (6')	EPA 5035A/5030B	750069	EPA 8015B	750128
60383397015	NSW-9 (3')	EPA 5035A/5030B	750069	EPA 8015B	750128
60383397016	SSW-20 (8')	EPA 5035A/5030B	750069	EPA 8015B	750128
60383397017	SSW-21 (8')	EPA 5035A/5030B	750069	EPA 8015B	750128
60383397018	SSW-22 (4')	EPA 5035A/5030B	750069	EPA 8015B	750128
60383397019	FS-8	EPA 5035A/5030B	750069	EPA 8015B	750128
60383397020	FS-12	EPA 5035A/5030B	750069	EPA 8015B	750128
60383397021	FS-13	EPA 5035A/5030B	750070	EPA 8015B	750127
60383397001	NSW-8	EPA 5035A/5030B	750067	EPA 8260B	750136
60383397002	NSW-9	EPA 5035A/5030B	750067	EPA 8260B	750136
60383397003	NSW-10	EPA 5035A/5030B	750067	EPA 8260B	750136
60383397004	NSW-11	EPA 5035A/5030B	750067	EPA 8260B	750136
60383397005	SSW-20	EPA 5035A/5030B	750067	EPA 8260B	750136

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 212C-MD-02099
Pace Project No.: 60383397

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60383397006	SSW-21	EPA 5035A/5030B	750067	EPA 8260B	750136
60383397007	SSW-22	EPA 5035A/5030B	750067	EPA 8260B	750136
60383397008	SSW-23	EPA 5035A/5030B	750067	EPA 8260B	750136
60383397009	SSW-24	EPA 5035A/5030B	750067	EPA 8260B	750136
60383397010	SSW-25	EPA 5035A/5030B	750067	EPA 8260B	750136
60383397011	SSW-26	EPA 5035A/5030B	750067	EPA 8260B	750136
60383397012	SSW-24 (6')	EPA 5035A/5030B	750067	EPA 8260B	750136
60383397013	SSW-25 (4')	EPA 5035A/5030B	750067	EPA 8260B	750136
60383397014	SSW-26 (6')	EPA 5035A/5030B	750067	EPA 8260B	750136
60383397015	NSW-9 (3')	EPA 5035A/5030B	750067	EPA 8260B	750136
60383397016	SSW-20 (8')	EPA 5035A/5030B	750067	EPA 8260B	750136
60383397017	SSW-21 (8')	EPA 5035A/5030B	750067	EPA 8260B	750136
60383397018	SSW-22 (4')	EPA 5035A/5030B	750067	EPA 8260B	750136
60383397019	FS-8	EPA 5035A/5030B	750067	EPA 8260B	750136
60383397020	FS-12	EPA 5035A/5030B	750067	EPA 8260B	750136
60383397021	FS-13	EPA 5035A/5030B	750152	EPA 8260B	750219
60383397001	NSW-8	ASTM D2974	750040		
60383397002	NSW-9	ASTM D2974	750040		
60383397003	NSW-10	ASTM D2974	750040		
60383397004	NSW-11	ASTM D2974	750040		
60383397005	SSW-20	ASTM D2974	750040		
60383397006	SSW-21	ASTM D2974	750040		
60383397007	SSW-22	ASTM D2974	750040		
60383397008	SSW-23	ASTM D2974	750040		
60383397009	SSW-24	ASTM D2974	750040		
60383397010	SSW-25	ASTM D2974	750040		
60383397011	SSW-26	ASTM D2974	750040		
60383397012	SSW-24 (6')	ASTM D2974	750040		
60383397013	SSW-25 (4')	ASTM D2974	750040		
60383397014	SSW-26 (6')	ASTM D2974	750040		
60383397015	NSW-9 (3')	ASTM D2974	750040		
60383397016	SSW-20 (8')	ASTM D2974	750040		
60383397017	SSW-21 (8')	ASTM D2974	750040		
60383397018	SSW-22 (4')	ASTM D2974	750040		
60383397019	FS-8	ASTM D2974	750040		
60383397020	FS-12	ASTM D2974	750040		
60383397021	FS-13	ASTM D2974	750053		
60383397001	NSW-8	EPA 9056	750045	EPA 9056	750163
60383397002	NSW-9	EPA 9056	750045	EPA 9056	750163
60383397003	NSW-10	EPA 9056	750045	EPA 9056	750163
60383397004	NSW-11	EPA 9056	750045	EPA 9056	750163
60383397005	SSW-20	EPA 9056	750045	EPA 9056	750163
60383397006	SSW-21	EPA 9056	750045	EPA 9056	750163
60383397007	SSW-22	EPA 9056	750045	EPA 9056	750163
60383397008	SSW-23	EPA 9056	750045	EPA 9056	750163
60383397009	SSW-24	EPA 9056	750045	EPA 9056	750163
60383397010	SSW-25	EPA 9056	750045	EPA 9056	750163

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 212C-MD-02099

Pace Project No.: 60383397

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60383397011	SSW-26	EPA 9056	750045	EPA 9056	750163
60383397012	SSW-24 (6')	EPA 9056	750045	EPA 9056	750163
60383397013	SSW-25 (4')	EPA 9056	750045	EPA 9056	750163
60383397014	SSW-26 (6')	EPA 9056	750045	EPA 9056	750163
60383397015	NSW-9 (3')	EPA 9056	750045	EPA 9056	750163
60383397016	SSW-20 (8')	EPA 9056	750045	EPA 9056	750163
60383397017	SSW-21 (8')	EPA 9056	750045	EPA 9056	750163
60383397018	SSW-22 (4')	EPA 9056	750045	EPA 9056	750163
60383397019	FS-8	EPA 9056	750045	EPA 9056	750163
60383397020	FS-12	EPA 9056	750045	EPA 9056	750163
60383397021	FS-13	EPA 9056	750131	EPA 9056	750165

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Sample Condition Upon Receipt

WO#: 60383397

Client Name: TetraTechCourier: FedEx ☒ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☐ Other ☐Tracking #: 815581030 0403 Pace Shipping Label Used? Yes ☐ No ☒Custody Seal on Cooler/Box Present: Yes ☐ No ☒ Seals intact: Yes ☐ No ☐Packing Material: Bubble Wrap ☒ Bubble Bags ☒ Foam ☐ None ☐ Other ☒ EPICThermometer Used: +0910 Type of Ice: Wet Blue ☐ None ☐Cooler Temperature (°C): As-read 3.9 Corr. Factor -0.3 Corrected 3.6Date and initials of person examining contents: 10/10/21 MLK

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>24 hr</u>
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<u>Did not receive SSW-20</u>
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<u>(8') or SSW-21(8')</u>
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>We did receive SSW-20</u>
Samples contain multiple phases? Matrix: <u>GL</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>(10') + SSW-21(8'). No time listed</u>
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State: <u>TX</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<u>10/10/21 MLK</u>

Client Notification/ Resolution:

Copy COC to Client? Y / N

Field Data Required? Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____



Tetra Tech, Inc.

901 West Wall Street, Suite 100
Midland, Texas 79701
(432) 682-4559
Fax (432) 682-

Client Name:	Conoco Phillips	Site Manager:	Christian Llull
Project Name:	VGEU 2801-02	Contact Info:	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location:	Lea County, New Mexico	Project #:	212C-MD-02099
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	Sampler Signature:	John Thurston

Comments: COPTETRA Accntum

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	NONE		
	SSW-26	10/13/2021	11:40	X	X			X		1	N
	SSW-24 (6')	10/14/2021	9:29	X	X			X		1	N
	SSW-25 (4')	10/14/2021	9:35	X	X			X		1	N
	SSW-26 (6')	10/14/2021	9:45	X	X			X		1	N
	NSW-9 (3')	10/14/2021	10:00	X	X			X		1	N
	SSW-20 (8')	10/15/2021	8:15	X	X			X		1	N
	SSW-21 (8')	10/15/2021	8:20	X	X			X		1	N
	SSW-22 (4')	10/15/2021	8:25	X	X			X		1	N
	FS-8	10/15/2021	8:30	X	X			X		1	N
	FS-12	10/15/2021	8:35	X	X			X		1	N

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>John Doe</i>	10/15/21	1200	<i>Walter Pace</i>	10/16/21	0915
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

ANALYSIS REQUEST (Circle or Specify Method No.)											
TPH 8015R											
Anion/Cation Balance											
General Water Chemistry (see attached list)											
Chloride Sulfate TDS											
Chloride 300.0	X										
PLM (Asbestos)	X										
NORM											
PCB's 8082 / 608											
GC/MS Semi. Vol. 8270C/625											
GC/MS Vol. 8260B / 624											
RCI											
TCLP Semi Volatiles											
TCLP Volatiles											
TCLP Metals Ag As Ba Cd Cr Pb Se Hg											
Total Metals Ag As Ba Cd Cr Pb Se Hg											
PAH 8270C											
TPH 8015M (GRO - DRO - ORO - MRO)	X										
TPH TX1005 (Excl to C35)	X										
BTEX 8021B BTEX 8260B	X										

REMARKS:	<input type="checkbox"/> Standard
LAB USE ONLY	<input checked="" type="checkbox"/> RUSH: Same Day 24 hr. 48 hr. 72 hr.
Sample Temperature	<input type="checkbox"/> Rush Charges Authorized
	<input type="checkbox"/> Special Report Limits or TRRP Report



9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

October 26, 2021

Christian Lull
Tetra Tech-Houston
8911 N Capital of Texas Hwy.
Bldg. 2, Suite 2310
Austin, TX 78759

RE: Project: VGEU 2801-02
Pace Project No.: 60383828

Dear Christian Lull:

Enclosed are the analytical results for sample(s) received by the laboratory on October 21, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nolie Wood
nolie.wood@pacelabs.com
1(913)563-1401
Project Manager

Enclosures

cc: Sam Abbott, Tetra Tech, Inc
Ryan Dickerson, Tetra Tech Houston TX
John Thurston, Tetra Tech-Houston TX



REPORT OF LABORATORY ANALYSIS

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: VGEU 2801-02

Pace Project No.: 60383828

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 20-020-0

Arkansas Drinking Water

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212020-2

Oklahoma Certification #: 9205/9935

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-19-12

Utah Certification #: KS000212019-9

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: VGEU 2801-02

Pace Project No.: 60383828

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60383828001	FS-14	Solid	10/18/21 09:12	10/21/21 07:30
60383828002	FS-15	Solid	10/18/21 09:18	10/21/21 07:30
60383828003	FS-16	Solid	10/18/21 09:24	10/21/21 07:30
60383828004	FS-17	Solid	10/18/21 09:30	10/21/21 07:30
60383828005	FS-18	Solid	10/18/21 09:36	10/21/21 07:30
60383828006	FS-19	Solid	10/18/21 09:42	10/21/21 07:30
60383828007	FS-20	Solid	10/18/21 09:48	10/21/21 07:30
60383828008	FS-21	Solid	10/18/21 09:54	10/21/21 07:30
60383828009	FS-22	Solid	10/18/21 10:00	10/21/21 07:30
60383828010	FS-1 (5')	Solid	10/18/21 10:06	10/21/21 07:30
60383828011	FS-5 (5')	Solid	10/18/21 10:10	10/21/21 07:30
60383828012	FS-6 (5')	Solid	10/18/21 10:15	10/21/21 07:30
60383828013	SSW-14	Solid	10/19/21 09:35	10/21/21 07:30
60383828014	SSW-15	Solid	10/19/21 09:45	10/21/21 07:30
60383828015	SSW-16	Solid	10/19/21 09:55	10/21/21 07:30
60383828016	SSW-17	Solid	10/19/21 10:05	10/21/21 07:30
60383828017	SSW-18	Solid	10/19/21 10:15	10/21/21 07:30
60383828018	SSW-19	Solid	10/19/21 10:25	10/21/21 07:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: VGEU 2801-02

Pace Project No.: 60383828

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60383828001	FS-14	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	LDB	1	PASI-K
60383828002	FS-15	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	LDB	1	PASI-K
60383828003	FS-16	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	LDB	1	PASI-K
60383828004	FS-17	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	LDB	1	PASI-K
60383828005	FS-18	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	LDB	1	PASI-K
60383828006	FS-19	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60383828007	FS-20	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	LDB	1	PASI-K
60383828008	FS-21	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K

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SAMPLE ANALYTE COUNT

Project: VGEU 2801-02

Pace Project No.: 60383828

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60383828009	FS-22	EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	LDB	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
60383828010	FS-1 (5')	ASTM D2974	DWC	1	PASI-K
		EPA 9056	LDB	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
60383828011	FS-5 (5')	EPA 9056	LDB	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K
60383828012	FS-6 (5')	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
60383828013	SSW-14	EPA 8015B	BB1	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
60383828014	SSW-15	EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
60383828015	SSW-16	ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: VGEU 2801-02

Pace Project No.: 60383828

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60383828016	SSW-17	EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
60383828017	SSW-18	EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
60383828018	SSW-19	EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60383828

Sample: FS-14 Lab ID: 60383828001 Collected: 10/18/21 09:12 Received: 10/21/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	30.7	1	10/22/21 07:44	10/23/21 21:31		
TPH-ORO (C28-C35)	ND	mg/kg	30.7	1	10/22/21 07:44	10/23/21 21:31		
Surrogates								
n-Tetracosane (S)	64	%	31-152	1	10/22/21 07:44	10/23/21 21:31	646-31-1	
p-Terphenyl (S)	70	%	46-130	1	10/22/21 07:44	10/23/21 21:31	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.8	1	10/22/21 15:02	10/23/21 19:35		
Surrogates								
4-Bromofluorobenzene (S)	100	%	63-121	1	10/22/21 15:02	10/23/21 19:35	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.9	1	10/22/21 15:02	10/22/21 18:11	71-43-2	
Ethylbenzene	ND	ug/kg	5.9	1	10/22/21 15:02	10/22/21 18:11	100-41-4	
Toluene	8.0	ug/kg	5.9	1	10/22/21 15:02	10/22/21 18:11	108-88-3	
Xylene (Total)	ND	ug/kg	17.7	1	10/22/21 15:02	10/22/21 18:11	1330-20-7	
Surrogates								
Toluene-d8 (S)	105	%	80-120	1	10/22/21 15:02	10/22/21 18:11	2037-26-5	
4-Bromofluorobenzene (S)	100	%	83-119	1	10/22/21 15:02	10/22/21 18:11	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1	10/22/21 15:02	10/22/21 18:11	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	8.8	%	0.50	1		10/21/21 16:17		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056								
Pace Analytical Services - Kansas City								
Chloride	2580	mg/kg	223	20	10/22/21 16:12	10/25/21 12:17	16887-00-6	M1

Sample: FS-15 Lab ID: 60383828002 Collected: 10/18/21 09:18 Received: 10/21/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.6	1	10/22/21 07:44	10/23/21 21:55		
TPH-ORO (C28-C35)	ND	mg/kg	10.6	1	10/22/21 07:44	10/23/21 21:55		
Surrogates								
n-Tetracosane (S)	69	%	31-152	1	10/22/21 07:44	10/23/21 21:55	646-31-1	
p-Terphenyl (S)	72	%	46-130	1	10/22/21 07:44	10/23/21 21:55	92-94-4	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60383828

Sample: FS-15 Lab ID: 60383828002 Collected: 10/18/21 09:18 Received: 10/21/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.5	1	10/22/21 15:02	10/23/21 19:50		
Surrogates								
4-Bromofluorobenzene (S)	99	%	63-121	1	10/22/21 15:02	10/23/21 19:50	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.7	1	10/22/21 15:02	10/22/21 18:31	71-43-2	
Ethylbenzene	ND	ug/kg	5.7	1	10/22/21 15:02	10/22/21 18:31	100-41-4	
Toluene	7.6	ug/kg	5.7	1	10/22/21 15:02	10/22/21 18:31	108-88-3	
Xylene (Total)	ND	ug/kg	17.2	1	10/22/21 15:02	10/22/21 18:31	1330-20-7	
Surrogates								
Toluene-d8 (S)	105	%	80-120	1	10/22/21 15:02	10/22/21 18:31	2037-26-5	
4-Bromofluorobenzene (S)	99	%	83-119	1	10/22/21 15:02	10/22/21 18:31	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	80-120	1	10/22/21 15:02	10/22/21 18:31	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	7.0	%	0.50	1		10/21/21 16:17		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	5520	mg/kg	540	50	10/22/21 16:12	10/25/21 13:14	16887-00-6	

Sample: FS-16 Lab ID: 60383828003 Collected: 10/18/21 09:24 Received: 10/21/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.3	1	10/22/21 07:44	10/23/21 22:04		
TPH-ORO (C28-C35)	ND	mg/kg	10.3	1	10/22/21 07:44	10/23/21 22:04		
Surrogates								
n-Tetracosane (S)	69	%	31-152	1	10/22/21 07:44	10/23/21 22:04	646-31-1	
p-Terphenyl (S)	71	%	46-130	1	10/22/21 07:44	10/23/21 22:04	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.8	1	10/22/21 15:02	10/23/21 20:06		
Surrogates								
4-Bromofluorobenzene (S)	100	%	63-121	1	10/22/21 15:02	10/23/21 20:06	460-00-4	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60383828

Sample: FS-16 **Lab ID: 60383828003** Collected: 10/18/21 09:24 Received: 10/21/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.9	1	10/22/21 15:02	10/22/21 18:52	71-43-2	
Ethylbenzene	ND	ug/kg	5.9	1	10/22/21 15:02	10/22/21 18:52	100-41-4	
Toluene	8.0	ug/kg	5.9	1	10/22/21 15:02	10/22/21 18:52	108-88-3	
Xylene (Total)	ND	ug/kg	17.7	1	10/22/21 15:02	10/22/21 18:52	1330-20-7	
Surrogates								
Toluene-d8 (S)	105	%	80-120	1	10/22/21 15:02	10/22/21 18:52	2037-26-5	
4-Bromofluorobenzene (S)	99	%	83-119	1	10/22/21 15:02	10/22/21 18:52	460-00-4	
1,2-Dichlorobenzene-d4 (S)	95	%	80-120	1	10/22/21 15:02	10/22/21 18:52	2199-69-1	

Percent Moisture

Analytical Method: ASTM D2974

Pace Analytical Services - Kansas City

Percent Moisture	8.5	%	0.50	1		10/21/21 16:17		
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9056 IC Anions

Analytical Method: EPA 9056 Preparation Method: EPA 9056

Pace Analytical Services - Kansas City

Chloride	9320	mg/kg	1090	100	10/22/21 16:12	10/25/21 13:36	16887-00-6	
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Sample: FS-17 **Lab ID: 60383828004** Collected: 10/18/21 09:30 Received: 10/21/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.2	1	10/22/21 07:44	10/23/21 22:12		
TPH-ORO (C28-C35)	ND	mg/kg	10.2	1	10/22/21 07:44	10/23/21 22:12		
Surrogates								
n-Tetracosane (S)	68	%	31-152	1	10/22/21 07:44	10/23/21 22:12	646-31-1	
p-Terphenyl (S)	69	%	46-130	1	10/22/21 07:44	10/23/21 22:12	92-94-4	

Gasoline Range Organics

Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B

Pace Analytical Services - Kansas City

TPH-GRO	ND	mg/kg	11.6	1	10/22/21 15:02	10/23/21 20:21		
Surrogates								
4-Bromofluorobenzene (S)	101	%	63-121	1	10/22/21 15:02	10/23/21 20:21	460-00-4	

8260B MSV 5035A Low Level

Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B

Pace Analytical Services - Kansas City

Benzene	ND	ug/kg	5.8	1	10/22/21 15:02	10/22/21 19:12	71-43-2	
Ethylbenzene	ND	ug/kg	5.8	1	10/22/21 15:02	10/22/21 19:12	100-41-4	
Toluene	7.5	ug/kg	5.8	1	10/22/21 15:02	10/22/21 19:12	108-88-3	
Xylene (Total)	ND	ug/kg	17.3	1	10/22/21 15:02	10/22/21 19:12	1330-20-7	
Surrogates								
Toluene-d8 (S)	106	%	80-120	1	10/22/21 15:02	10/22/21 19:12	2037-26-5	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60383828

Sample: FS-17 Lab ID: 60383828004 Collected: 10/18/21 09:30 Received: 10/21/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Surrogates								
4-Bromofluorobenzene (S)	99	%	83-119	1	10/22/21 15:02	10/22/21 19:12	460-00-4	
1,2-Dichlorobenzene-d4 (S)	95	%	80-120	1	10/22/21 15:02	10/22/21 19:12	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	7.8	%	0.50	1		10/21/21 16:17		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056								
Pace Analytical Services - Kansas City								
Chloride	6290	mg/kg	1090	100	10/22/21 16:12	10/25/21 13:48	16887-00-6	

Sample: FS-18 Lab ID: 60383828005 Collected: 10/18/21 09:36 Received: 10/21/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.9	1	10/22/21 07:44	10/23/21 22:20		
TPH-ORO (C28-C35)	ND	mg/kg	10.9	1	10/22/21 07:44	10/23/21 22:20		
Surrogates								
n-Tetracosane (S)	77	%	31-152	1	10/22/21 07:44	10/23/21 22:20	646-31-1	
p-Terphenyl (S)	79	%	46-130	1	10/22/21 07:44	10/23/21 22:20	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	12.1	1	10/22/21 15:02	10/23/21 20:37		
Surrogates								
4-Bromofluorobenzene (S)	100	%	63-121	1	10/22/21 15:02	10/23/21 20:37	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	6.0	1	10/22/21 15:02	10/22/21 19:32	71-43-2	
Ethylbenzene	ND	ug/kg	6.0	1	10/22/21 15:02	10/22/21 19:32	100-41-4	
Toluene	9.4	ug/kg	6.0	1	10/22/21 15:02	10/22/21 19:32	108-88-3	
Xylene (Total)	ND	ug/kg	18.1	1	10/22/21 15:02	10/22/21 19:32	1330-20-7	
Surrogates								
Toluene-d8 (S)	108	%	80-120	1	10/22/21 15:02	10/22/21 19:32	2037-26-5	
4-Bromofluorobenzene (S)	101	%	83-119	1	10/22/21 15:02	10/22/21 19:32	460-00-4	
1,2-Dichlorobenzene-d4 (S)	95	%	80-120	1	10/22/21 15:02	10/22/21 19:32	2199-69-1	

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ANALYTICAL RESULTS

Project: VGEU 2801-02
Pace Project No.: 60383828

Sample: FS-18 **Lab ID: 60383828005** Collected: 10/18/21 09:36 Received: 10/21/21 07:30 Matrix: Solid
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	9.3	%	0.50	1		10/21/21 16:17		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	4430	mg/kg	555	50	10/22/21 16:12	10/25/21 13:59	16887-00-6	

Sample: FS-19 **Lab ID: 60383828006** Collected: 10/18/21 09:42 Received: 10/21/21 07:30 Matrix: Solid
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.2	1	10/22/21 07:44	10/23/21 22:28		
TPH-ORO (C28-C35)	ND	mg/kg	10.2	1	10/22/21 07:44	10/23/21 22:28		
Surrogates								
n-Tetracosane (S)	74	%	31-152	1	10/22/21 07:44	10/23/21 22:28	646-31-1	
p-Terphenyl (S)	75	%	46-130	1	10/22/21 07:44	10/23/21 22:28	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.0	1	10/22/21 15:02	10/23/21 20:53		
Surrogates								
4-Bromofluorobenzene (S)	100	%	63-121	1	10/22/21 15:02	10/23/21 20:53	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.5	1	10/22/21 15:02	10/22/21 19:52	71-43-2	
Ethylbenzene	ND	ug/kg	5.5	1	10/22/21 15:02	10/22/21 19:52	100-41-4	
Toluene	7.6	ug/kg	5.5	1	10/22/21 15:02	10/22/21 19:52	108-88-3	
Xylene (Total)	ND	ug/kg	16.4	1	10/22/21 15:02	10/22/21 19:52	1330-20-7	
Surrogates								
Toluene-d8 (S)	106	%	80-120	1	10/22/21 15:02	10/22/21 19:52	2037-26-5	
4-Bromofluorobenzene (S)	99	%	83-119	1	10/22/21 15:02	10/22/21 19:52	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1	10/22/21 15:02	10/22/21 19:52	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	4.5	%	0.50	1		10/21/21 16:17		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	1670	mg/kg	103	10	10/22/21 16:12	10/22/21 21:13	16887-00-6	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60383828

Sample: FS-20 **Lab ID: 60383828007** Collected: 10/18/21 09:48 Received: 10/21/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.3	1	10/22/21 07:44	10/23/21 22:36		
TPH-ORO (C28-C35)	ND	mg/kg	10.3	1	10/22/21 07:44	10/23/21 22:36		
Surrogates								
n-Tetracosane (S)	77	%	31-152	1	10/22/21 07:44	10/23/21 22:36	646-31-1	
p-Terphenyl (S)	78	%	46-130	1	10/22/21 07:44	10/23/21 22:36	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.1	1	10/22/21 15:02	10/23/21 21:08		
Surrogates								
4-Bromofluorobenzene (S)	98	%	63-121	1	10/22/21 15:02	10/23/21 21:08	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.6	1	10/22/21 15:02	10/22/21 20:12	71-43-2	
Ethylbenzene	ND	ug/kg	5.6	1	10/22/21 15:02	10/22/21 20:12	100-41-4	
Toluene	8.1	ug/kg	5.6	1	10/22/21 15:02	10/22/21 20:12	108-88-3	
Xylene (Total)	ND	ug/kg	16.7	1	10/22/21 15:02	10/22/21 20:12	1330-20-7	
Surrogates								
Toluene-d8 (S)	107	%	80-120	1	10/22/21 15:02	10/22/21 20:12	2037-26-5	
4-Bromofluorobenzene (S)	99	%	83-119	1	10/22/21 15:02	10/22/21 20:12	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	80-120	1	10/22/21 15:02	10/22/21 20:12	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	5.7	%	0.50	1		10/21/21 16:17		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056								
Pace Analytical Services - Kansas City								
Chloride	4140	mg/kg	517	50	10/22/21 16:12	10/25/21 14:10	16887-00-6	

Sample: FS-21 **Lab ID: 60383828008** Collected: 10/18/21 09:54 Received: 10/21/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.4	1	10/22/21 07:44	10/23/21 22:44		
TPH-ORO (C28-C35)	ND	mg/kg	10.4	1	10/22/21 07:44	10/23/21 22:44		
Surrogates								
n-Tetracosane (S)	75	%	31-152	1	10/22/21 07:44	10/23/21 22:44	646-31-1	
p-Terphenyl (S)	76	%	46-130	1	10/22/21 07:44	10/23/21 22:44	92-94-4	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60383828

Sample: FS-21 **Lab ID: 60383828008** Collected: 10/18/21 09:54 Received: 10/21/21 07:30 Matrix: Solid*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.5	1	10/22/21 15:02	10/23/21 21:23		
Surrogates								
4-Bromofluorobenzene (S)	99	%	63-121	1	10/22/21 15:02	10/23/21 21:23	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.7	1	10/22/21 15:02	10/22/21 20:33	71-43-2	
Ethylbenzene	ND	ug/kg	5.7	1	10/22/21 15:02	10/22/21 20:33	100-41-4	
Toluene	8.1	ug/kg	5.7	1	10/22/21 15:02	10/22/21 20:33	108-88-3	
Xylene (Total)	ND	ug/kg	17.2	1	10/22/21 15:02	10/22/21 20:33	1330-20-7	
Surrogates								
Toluene-d8 (S)	107	%	80-120	1	10/22/21 15:02	10/22/21 20:33	2037-26-5	
4-Bromofluorobenzene (S)	99	%	83-119	1	10/22/21 15:02	10/22/21 20:33	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	80-120	1	10/22/21 15:02	10/22/21 20:33	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	7.0	%	0.50	1		10/21/21 16:17		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	5650	mg/kg	1050	100	10/22/21 16:12	10/25/21 14:22	16887-00-6	

Sample: FS-22 **Lab ID: 60383828009** Collected: 10/18/21 10:00 Received: 10/21/21 07:30 Matrix: Solid*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.4	1	10/22/21 07:44	10/23/21 22:52		
TPH-ORO (C28-C35)	ND	mg/kg	10.4	1	10/22/21 07:44	10/23/21 22:52		
Surrogates								
n-Tetracosane (S)	81	%	31-152	1	10/22/21 07:44	10/23/21 22:52	646-31-1	
p-Terphenyl (S)	81	%	46-130	1	10/22/21 07:44	10/23/21 22:52	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.6	1	10/22/21 15:02	10/23/21 22:09		
Surrogates								
4-Bromofluorobenzene (S)	98	%	63-121	1	10/22/21 15:02	10/23/21 22:09	460-00-4	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60383828

Sample: FS-22 Lab ID: 60383828009 Collected: 10/18/21 10:00 Received: 10/21/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.8	1	10/22/21 15:02	10/22/21 20:53	71-43-2	
Ethylbenzene	ND	ug/kg	5.8	1	10/22/21 15:02	10/22/21 20:53	100-41-4	
Toluene	8.7	ug/kg	5.8	1	10/22/21 15:02	10/22/21 20:53	108-88-3	
Xylene (Total)	ND	ug/kg	17.5	1	10/22/21 15:02	10/22/21 20:53	1330-20-7	
Surrogates								
Toluene-d8 (S)	105	%	80-120	1	10/22/21 15:02	10/22/21 20:53	2037-26-5	
4-Bromofluorobenzene (S)	99	%	83-119	1	10/22/21 15:02	10/22/21 20:53	460-00-4	
1,2-Dichlorobenzene-d4 (S)	95	%	80-120	1	10/22/21 15:02	10/22/21 20:53	2199-69-1	

Percent Moisture

Analytical Method: ASTM D2974

Pace Analytical Services - Kansas City

Percent Moisture	7.6	%	0.50	1		10/21/21 16:17		
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9056 IC Anions

Analytical Method: EPA 9056 Preparation Method: EPA 9056

Pace Analytical Services - Kansas City

Chloride	5790	mg/kg	1080	100	10/22/21 16:12	10/25/21 14:33	16887-00-6	
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Sample: FS-1 (5') Lab ID: 60383828010 Collected: 10/18/21 10:06 Received: 10/21/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	12.5	mg/kg	10.6	1	10/22/21 07:44	10/23/21 23:00		
TPH-ORO (C28-C35)	14.2	mg/kg	10.6	1	10/22/21 07:44	10/23/21 23:00		
Surrogates								
n-Tetracosane (S)	77	%	31-152	1	10/22/21 07:44	10/23/21 23:00	646-31-1	
p-Terphenyl (S)	77	%	46-130	1	10/22/21 07:44	10/23/21 23:00	92-94-4	

Gasoline Range Organics

Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B

Pace Analytical Services - Kansas City

TPH-GRO	ND	mg/kg	11.3	1	10/22/21 15:02	10/23/21 22:24		
Surrogates								
4-Bromofluorobenzene (S)	98	%	63-121	1	10/22/21 15:02	10/23/21 22:24	460-00-4	

8260B MSV 5035A Low Level

Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B

Pace Analytical Services - Kansas City

Benzene	ND	ug/kg	5.7	1	10/22/21 15:02	10/22/21 21:13	71-43-2	
Ethylbenzene	ND	ug/kg	5.7	1	10/22/21 15:02	10/22/21 21:13	100-41-4	
Toluene	8.4	ug/kg	5.7	1	10/22/21 15:02	10/22/21 21:13	108-88-3	
Xylene (Total)	ND	ug/kg	17.0	1	10/22/21 15:02	10/22/21 21:13	1330-20-7	
Surrogates								
Toluene-d8 (S)	105	%	80-120	1	10/22/21 15:02	10/22/21 21:13	2037-26-5	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60383828

Sample: FS-1 (5') **Lab ID: 60383828010** Collected: 10/18/21 10:06 Received: 10/21/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Surrogates								
4-Bromofluorobenzene (S)	99	%	83-119	1	10/22/21 15:02	10/22/21 21:13	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	80-120	1	10/22/21 15:02	10/22/21 21:13	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	6.2	%	0.50	1		10/21/21 16:17		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056								
Pace Analytical Services - Kansas City								
Chloride	6230	mg/kg	1060	100	10/22/21 16:12	10/25/21 14:45	16887-00-6	

Sample: FS-5 (5') **Lab ID: 60383828011** Collected: 10/18/21 10:10 Received: 10/21/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	18.3	mg/kg	10	1	10/22/21 07:44	10/23/21 23:08		
TPH-ORO (C28-C35)	ND	mg/kg	10	1	10/22/21 07:44	10/23/21 23:08		
Surrogates								
n-Tetracosane (S)	76	%	31-152	1	10/22/21 07:44	10/23/21 23:08	646-31-1	
p-Terphenyl (S)	77	%	46-130	1	10/22/21 07:44	10/23/21 23:08	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.1	1	10/22/21 15:02	10/23/21 22:39		
Surrogates								
4-Bromofluorobenzene (S)	100	%	63-121	1	10/22/21 15:02	10/23/21 22:39	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.5	1	10/22/21 15:02	10/22/21 21:33	71-43-2	
Ethylbenzene	ND	ug/kg	5.5	1	10/22/21 15:02	10/22/21 21:33	100-41-4	
Toluene	ND	ug/kg	5.5	1	10/22/21 15:02	10/22/21 21:33	108-88-3	
Xylene (Total)	ND	ug/kg	16.6	1	10/22/21 15:02	10/22/21 21:33	1330-20-7	
Surrogates								
Toluene-d8 (S)	108	%	80-120	1	10/22/21 15:02	10/22/21 21:33	2037-26-5	
4-Bromofluorobenzene (S)	99	%	83-119	1	10/22/21 15:02	10/22/21 21:33	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1	10/22/21 15:02	10/22/21 21:33	2199-69-1	

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ANALYTICAL RESULTS

Project: VGEU 2801-02
Pace Project No.: 60383828

Sample: FS-5 (5') **Lab ID: 60383828011** Collected: 10/18/21 10:10 Received: 10/21/21 07:30 Matrix: Solid
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	5.3	%	0.50	1		10/21/21 16:18		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	9810	mg/kg	1060	100	10/22/21 16:12	10/26/21 09:33	16887-00-6	

Sample: FS-6 (5') **Lab ID: 60383828012** Collected: 10/18/21 10:15 Received: 10/21/21 07:30 Matrix: Solid
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.9	1	10/22/21 07:44	10/23/21 23:17		
TPH-ORO (C28-C35)	ND	mg/kg	10.9	1	10/22/21 07:44	10/23/21 23:17		
Surrogates								
n-Tetracosane (S)	68	%	31-152	1	10/22/21 07:44	10/23/21 23:17	646-31-1	
p-Terphenyl (S)	68	%	46-130	1	10/22/21 07:44	10/23/21 23:17	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	12.4	1	10/22/21 15:02	10/23/21 22:54		
Surrogates								
4-Bromofluorobenzene (S)	98	%	63-121	1	10/22/21 15:02	10/23/21 22:54	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	6.2	1	10/22/21 15:02	10/22/21 21:53	71-43-2	
Ethylbenzene	ND	ug/kg	6.2	1	10/22/21 15:02	10/22/21 21:53	100-41-4	
Toluene	ND	ug/kg	6.2	1	10/22/21 15:02	10/22/21 21:53	108-88-3	
Xylene (Total)	ND	ug/kg	18.6	1	10/22/21 15:02	10/22/21 21:53	1330-20-7	
Surrogates								
Toluene-d8 (S)	106	%	80-120	1	10/22/21 15:02	10/22/21 21:53	2037-26-5	
4-Bromofluorobenzene (S)	99	%	83-119	1	10/22/21 15:02	10/22/21 21:53	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	80-120	1	10/22/21 15:02	10/22/21 21:53	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	10.7	%	0.50	1		10/21/21 16:18		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	13200	mg/kg	1150	100	10/22/21 16:12	10/26/21 09:44	16887-00-6	

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ANALYTICAL RESULTS

Project: VGEU 2801-02
Pace Project No.: 60383828

Sample: SSW-14 Lab ID: 60383828013 Collected: 10/19/21 09:35 Received: 10/21/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	11.1	mg/kg	10.6	1	10/22/21 07:44	10/25/21 11:36		
TPH-ORO (C28-C35)	14.6	mg/kg	10.6	1	10/22/21 07:44	10/25/21 11:36		
Surrogates								
n-Tetracosane (S)	64	%	31-152	1	10/22/21 07:44	10/25/21 11:36	646-31-1	
p-Terphenyl (S)	69	%	46-130	1	10/22/21 07:44	10/25/21 11:36	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.1	1	10/22/21 15:02	10/23/21 23:39		
Surrogates								
4-Bromofluorobenzene (S)	101	%	63-121	1	10/22/21 15:02	10/23/21 23:39	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.6	1	10/22/21 15:02	10/22/21 22:13	71-43-2	
Ethylbenzene	ND	ug/kg	5.6	1	10/22/21 15:02	10/22/21 22:13	100-41-4	
Toluene	ND	ug/kg	5.6	1	10/22/21 15:02	10/22/21 22:13	108-88-3	
Xylene (Total)	ND	ug/kg	16.7	1	10/22/21 15:02	10/22/21 22:13	1330-20-7	
Surrogates								
Toluene-d8 (S)	104	%	80-120	1	10/22/21 15:02	10/22/21 22:13	2037-26-5	
4-Bromofluorobenzene (S)	100	%	83-119	1	10/22/21 15:02	10/22/21 22:13	460-00-4	
1,2-Dichlorobenzene-d4 (S)	95	%	80-120	1	10/22/21 15:02	10/22/21 22:13	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	5.6	%	0.50	1		10/21/21 16:18		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	109	mg/kg	104	10	10/22/21 16:12	10/22/21 23:58	16887-00-6	

Sample: SSW-15 Lab ID: 60383828014 Collected: 10/19/21 09:45 Received: 10/21/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	17.4	mg/kg	10.6	1	10/22/21 07:44	10/25/21 11:44		
TPH-ORO (C28-C35)	22.0	mg/kg	10.6	1	10/22/21 07:44	10/25/21 11:44		
Surrogates								
n-Tetracosane (S)	85	%	31-152	1	10/22/21 07:44	10/25/21 11:44	646-31-1	
p-Terphenyl (S)	74	%	46-130	1	10/22/21 07:44	10/25/21 11:44	92-94-4	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60383828

Sample: SSW-15 **Lab ID: 60383828014** Collected: 10/19/21 09:45 Received: 10/21/21 07:30 Matrix: Solid*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.1	1	10/22/21 15:02	10/23/21 23:55		
Surrogates								
4-Bromofluorobenzene (S)	95	%	63-121	1	10/22/21 15:02	10/23/21 23:55	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.5	1	10/22/21 15:02	10/22/21 22:33	71-43-2	
Ethylbenzene	ND	ug/kg	5.5	1	10/22/21 15:02	10/22/21 22:33	100-41-4	
Toluene	ND	ug/kg	5.5	1	10/22/21 15:02	10/22/21 22:33	108-88-3	
Xylene (Total)	ND	ug/kg	16.6	1	10/22/21 15:02	10/22/21 22:33	1330-20-7	
Surrogates								
Toluene-d8 (S)	106	%	80-120	1	10/22/21 15:02	10/22/21 22:33	2037-26-5	
4-Bromofluorobenzene (S)	100	%	83-119	1	10/22/21 15:02	10/22/21 22:33	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	80-120	1	10/22/21 15:02	10/22/21 22:33	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	6.0	%	0.50	1		10/21/21 16:18		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	246	mg/kg	108	10	10/22/21 16:12	10/23/21 00:16	16887-00-6	

Sample: SSW-16 **Lab ID: 60383828015** Collected: 10/19/21 09:55 Received: 10/21/21 07:30 Matrix: Solid*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	9.9	1	10/22/21 07:44	10/25/21 11:52		
TPH-ORO (C28-C35)	ND	mg/kg	9.9	1	10/22/21 07:44	10/25/21 11:52		
Surrogates								
n-Tetracosane (S)	73	%	31-152	1	10/22/21 07:44	10/25/21 11:52	646-31-1	
p-Terphenyl (S)	60	%	46-130	1	10/22/21 07:44	10/25/21 11:52	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	10.8	1	10/22/21 15:02	10/24/21 00:10		
Surrogates								
4-Bromofluorobenzene (S)	98	%	63-121	1	10/22/21 15:02	10/24/21 00:10	460-00-4	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60383828

Sample: SSW-16 Lab ID: 60383828015 Collected: 10/19/21 09:55 Received: 10/21/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.4	1	10/22/21 15:02	10/22/21 22:54	71-43-2	
Ethylbenzene	ND	ug/kg	5.4	1	10/22/21 15:02	10/22/21 22:54	100-41-4	
Toluene	ND	ug/kg	5.4	1	10/22/21 15:02	10/22/21 22:54	108-88-3	
Xylene (Total)	ND	ug/kg	16.1	1	10/22/21 15:02	10/22/21 22:54	1330-20-7	
Surrogates								
Toluene-d8 (S)	108	%	80-120	1	10/22/21 15:02	10/22/21 22:54	2037-26-5	
4-Bromofluorobenzene (S)	99	%	83-119	1	10/22/21 15:02	10/22/21 22:54	460-00-4	
1,2-Dichlorobenzene-d4 (S)	95	%	80-120	1	10/22/21 15:02	10/22/21 22:54	2199-69-1	

Percent Moisture

Analytical Method: ASTM D2974

Pace Analytical Services - Kansas City

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	3.8	%	0.50	1		10/21/21 16:18		

9056 IC Anions

Analytical Method: EPA 9056 Preparation Method: EPA 9056

Pace Analytical Services - Kansas City

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Chloride	ND	mg/kg	104	10	10/22/21 16:12	10/23/21 00:35	16887-00-6	

Sample: SSW-17 Lab ID: 60383828016 Collected: 10/19/21 10:05 Received: 10/21/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.5	1	10/22/21 07:44	10/25/21 12:00		
TPH-ORO (C28-C35)	12.5	mg/kg	10.5	1	10/22/21 07:44	10/25/21 12:00		
Surrogates								
n-Tetracosane (S)	76	%	31-152	1	10/22/21 07:44	10/25/21 12:00	646-31-1	
p-Terphenyl (S)	69	%	46-130	1	10/22/21 07:44	10/25/21 12:00	92-94-4	

Gasoline Range Organics

Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B

Pace Analytical Services - Kansas City

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TPH-GRO	ND	mg/kg	11.4	1	10/22/21 15:02	10/24/21 00:25		
Surrogates								
4-Bromofluorobenzene (S)	99	%	63-121	1	10/22/21 15:02	10/24/21 00:25	460-00-4	

8260B MSV 5035A Low Level

Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B

Pace Analytical Services - Kansas City

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Benzene	ND	ug/kg	5.7	1	10/22/21 15:02	10/22/21 23:14	71-43-2	
Ethylbenzene	ND	ug/kg	5.7	1	10/22/21 15:02	10/22/21 23:14	100-41-4	
Toluene	ND	ug/kg	5.7	1	10/22/21 15:02	10/22/21 23:14	108-88-3	
Xylene (Total)	ND	ug/kg	17.0	1	10/22/21 15:02	10/22/21 23:14	1330-20-7	
Surrogates								
Toluene-d8 (S)	108	%	80-120	1	10/22/21 15:02	10/22/21 23:14	2037-26-5	

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ANALYTICAL RESULTS

Project: VGEU 2801-02

Pace Project No.: 60383828

Sample: SSW-17 **Lab ID: 60383828016** Collected: 10/19/21 10:05 Received: 10/21/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Surrogates								
4-Bromofluorobenzene (S)	99	%	83-119	1	10/22/21 15:02	10/22/21 23:14	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	80-120	1	10/22/21 15:02	10/22/21 23:14	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	7.1	%	0.50	1		10/21/21 16:18		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056								
Pace Analytical Services - Kansas City								
Chloride	117	mg/kg	107	10	10/22/21 16:12	10/23/21 00:53	16887-00-6	

Sample: SSW-18 **Lab ID: 60383828017** Collected: 10/19/21 10:15 Received: 10/21/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	267	mg/kg	102	10	10/22/21 07:44	10/25/21 12:08		
TPH-ORO (C28-C35)	305	mg/kg	102	10	10/22/21 07:44	10/25/21 12:08		
Surrogates								
n-Tetracosane (S)	0	%	31-152	10	10/22/21 07:44	10/25/21 12:08	646-31-1	S4
p-Terphenyl (S)	0	%	46-130	10	10/22/21 07:44	10/25/21 12:08	92-94-4	S4
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.1	1	10/22/21 15:02	10/24/21 01:10		
Surrogates								
4-Bromofluorobenzene (S)	97	%	63-121	1	10/22/21 15:02	10/24/21 01:10	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.6	1	10/22/21 15:02	10/22/21 23:35	71-43-2	
Ethylbenzene	ND	ug/kg	5.6	1	10/22/21 15:02	10/22/21 23:35	100-41-4	
Toluene	ND	ug/kg	5.6	1	10/22/21 15:02	10/22/21 23:35	108-88-3	
Xylene (Total)	ND	ug/kg	16.7	1	10/22/21 15:02	10/22/21 23:35	1330-20-7	
Surrogates								
Toluene-d8 (S)	106	%	80-120	1	10/22/21 15:02	10/22/21 23:35	2037-26-5	
4-Bromofluorobenzene (S)	99	%	83-119	1	10/22/21 15:02	10/22/21 23:35	460-00-4	
1,2-Dichlorobenzene-d4 (S)	95	%	80-120	1	10/22/21 15:02	10/22/21 23:35	2199-69-1	

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ANALYTICAL RESULTS

Project: VGEU 2801-02
Pace Project No.: 60383828

Sample: SSW-18 **Lab ID: 60383828017** Collected: 10/19/21 10:15 Received: 10/21/21 07:30 Matrix: Solid
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	5.9	%	0.50	1		10/21/21 16:18		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	308	mg/kg	107	10	10/22/21 16:12	10/23/21 01:11	16887-00-6	

Sample: SSW-19 **Lab ID: 60383828018** Collected: 10/19/21 10:25 Received: 10/21/21 07:30 Matrix: Solid
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	82.4	mg/kg	11.1	1	10/22/21 07:44	10/25/21 12:24		
TPH-ORO (C28-C35)	96.7	mg/kg	11.1	1	10/22/21 07:44	10/25/21 12:24		
Surrogates								
n-Tetracosane (S)	103	%	31-152	1	10/22/21 07:44	10/25/21 12:24	646-31-1	
p-Terphenyl (S)	90	%	46-130	1	10/22/21 07:44	10/25/21 12:24	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	12.6	1	10/22/21 15:02	10/24/21 01:25		
Surrogates								
4-Bromofluorobenzene (S)	99	%	63-121	1	10/22/21 15:02	10/24/21 01:25	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	6.3	1	10/22/21 15:02	10/22/21 23:54	71-43-2	
Ethylbenzene	ND	ug/kg	6.3	1	10/22/21 15:02	10/22/21 23:54	100-41-4	
Toluene	ND	ug/kg	6.3	1	10/22/21 15:02	10/22/21 23:54	108-88-3	
Xylene (Total)	ND	ug/kg	18.9	1	10/22/21 15:02	10/22/21 23:54	1330-20-7	
Surrogates								
Toluene-d8 (S)	104	%	80-120	1	10/22/21 15:02	10/22/21 23:54	2037-26-5	
4-Bromofluorobenzene (S)	98	%	83-119	1	10/22/21 15:02	10/22/21 23:54	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	80-120	1	10/22/21 15:02	10/22/21 23:54	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	11.9	%	0.50	1		10/21/21 16:18		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	4730	mg/kg	550	50	10/22/21 16:12	10/26/21 09:55	16887-00-6	

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QUALITY CONTROL DATA

Project: VGEU 2801-02

Pace Project No.: 60383828

QC Batch:	751305	Analysis Method:	EPA 8015B
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	Gasoline Range Organics
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60383828001, 60383828002, 60383828003, 60383828004, 60383828005, 60383828006, 60383828007, 60383828008, 60383828009, 60383828010, 60383828011, 60383828012, 60383828013, 60383828014, 60383828015, 60383828016, 60383828017, 60383828018		

METHOD BLANK:	3008077	Matrix:	Solid
Associated Lab Samples:	60383828001, 60383828002, 60383828003, 60383828004, 60383828005, 60383828006, 60383828007, 60383828008, 60383828009, 60383828010, 60383828011, 60383828012, 60383828013, 60383828014, 60383828015, 60383828016, 60383828017, 60383828018		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	10/23/21 19:20	
4-Bromofluorobenzene (S)	%	98	63-121	10/23/21 19:20	

LABORATORY CONTROL SAMPLE: 3008078						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	52.0	104	71-107	
4-Bromofluorobenzene (S)	%			101	63-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
3008079					3008080							
		60383828012	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Parameter	Units	Result										
TPH-GRO	mg/kg	ND	61.9	61.9	60.2	59.4	96	95	29-143	1	26	
4-Bromofluorobenzene (S)	%						102	101	63-121			

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QUALITY CONTROL DATA

Project: VGEU 2801-02

Pace Project No.: 60383828

QC Batch:	751459	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	8260B MSV 5035A Low Level
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60383828001, 60383828002, 60383828003, 60383828004, 60383828005, 60383828006, 60383828007, 60383828008, 60383828009, 60383828010, 60383828011, 60383828012, 60383828013, 60383828014, 60383828015, 60383828016, 60383828017, 60383828018		

METHOD BLANK:	3008653	Matrix:	Solid
Associated Lab Samples:	60383828001, 60383828002, 60383828003, 60383828004, 60383828005, 60383828006, 60383828007, 60383828008, 60383828009, 60383828010, 60383828011, 60383828012, 60383828013, 60383828014, 60383828015, 60383828016, 60383828017, 60383828018		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	10/22/21 17:51	
Ethylbenzene	ug/kg	ND	5.0	10/22/21 17:51	
Toluene	ug/kg	ND	5.0	10/22/21 17:51	
Xylene (Total)	ug/kg	ND	15.0	10/22/21 17:51	
1,2-Dichlorobenzene-d4 (S)	%	96	80-120	10/22/21 17:51	
4-Bromofluorobenzene (S)	%	101	83-119	10/22/21 17:51	
Toluene-d8 (S)	%	105	80-120	10/22/21 17:51	

LABORATORY CONTROL SAMPLE: 3008654

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	1250	1360	109	67-126	
Ethylbenzene	ug/kg	1250	1370	110	69-127	
Toluene	ug/kg	1250	1350	108	80-118	
Xylene (Total)	ug/kg	3750	4150	111	69-130	
1,2-Dichlorobenzene-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			96	83-119	
Toluene-d8 (S)	%			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3008655 3008656

Parameter	Units	60383828018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	1580	1580	1630	1680	103	107	17-134	3	53	
Ethylbenzene	ug/kg	ND	1580	1580	1620	1700	103	108	10-137	5	60	
Toluene	ug/kg	ND	1580	1580	1600	1670	101	106	13-131	5	60	
Xylene (Total)	ug/kg	ND	4720	4720	5010	5170	106	109	10-137	3	58	
1,2-Dichlorobenzene-d4 (S)	%						97	97	80-120			
4-Bromofluorobenzene (S)	%						95	95	83-119			
Toluene-d8 (S)	%						96	95	80-120			

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QUALITY CONTROL DATA

Project: VGEU 2801-02

Pace Project No.: 60383828

QC Batch: 751233

Analysis Method: EPA 8015B

QC Batch Method: EPA 3546

Analysis Description: EPA 8015B

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60383828001, 60383828002, 60383828003, 60383828004, 60383828005, 60383828006, 60383828007, 60383828008, 60383828009, 60383828010, 60383828011, 60383828012, 60383828013, 60383828014, 60383828015, 60383828016, 60383828017, 60383828018

METHOD BLANK: 3007799

Matrix: Solid

Associated Lab Samples: 60383828001, 60383828002, 60383828003, 60383828004, 60383828005, 60383828006, 60383828007, 60383828008, 60383828009, 60383828010, 60383828011, 60383828012, 60383828013, 60383828014, 60383828015, 60383828016, 60383828017, 60383828018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO (C10-C28)	mg/kg	ND	9.7	10/23/21 21:15	
TPH-ORO (C28-C35)	mg/kg	ND	9.7	10/23/21 21:15	
n-Tetracosane (S)	%	66	31-152	10/23/21 21:15	
p-Terphenyl (S)	%	75	46-130	10/23/21 21:15	

LABORATORY CONTROL SAMPLE: 3007800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO (C10-C28)	mg/kg	80.8	71.0	88	74-124	
n-Tetracosane (S)	%			80	31-152	
p-Terphenyl (S)	%			83	46-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3007801 3007802

Parameter	Units	60383828001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-DRO (C10-C28)	mg/kg	ND	266	273	241	224	89	81	30-130	7	35	
n-Tetracosane (S)	%						76	72	31-152			
p-Terphenyl (S)	%						80	74	46-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: VGEU 2801-02

Pace Project No.: 60383828

QC Batch:	751127	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60383828001, 60383828002, 60383828003, 60383828004, 60383828005, 60383828006, 60383828007, 60383828008, 60383828009, 60383828010, 60383828011, 60383828012, 60383828013, 60383828014, 60383828015, 60383828016, 60383828017, 60383828018		

METHOD BLANK: 3007439

Matrix: Solid

Associated Lab Samples: 60383828001, 60383828002, 60383828003, 60383828004, 60383828005, 60383828006, 60383828007, 60383828008, 60383828009, 60383828010, 60383828011, 60383828012, 60383828013, 60383828014, 60383828015, 60383828016, 60383828017, 60383828018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	10/21/21 16:17	

SAMPLE DUPLICATE: 3007440

Parameter	Units	60383828002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.0	6.9	1	20	

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QUALITY CONTROL DATA

Project: VGEU 2801-02

Pace Project No.: 60383828

QC Batch:	751295	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60383828001, 60383828002, 60383828003, 60383828004, 60383828005, 60383828006, 60383828007, 60383828008, 60383828009, 60383828010, 60383828011, 60383828012, 60383828013, 60383828014, 60383828015, 60383828016, 60383828017, 60383828018		

METHOD BLANK:	3008041	Matrix:	Solid
Associated Lab Samples:	60383828001, 60383828002, 60383828003, 60383828004, 60383828005, 60383828006, 60383828007, 60383828008, 60383828009, 60383828010, 60383828011, 60383828012, 60383828013, 60383828014, 60383828015, 60383828016, 60383828017, 60383828018		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	100	10/22/21 17:33	

LABORATORY CONTROL SAMPLE:	3008042					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	500	460	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3008043			3008044								
Parameter	Units	60383828001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/kg	2580	542	540	3380	3530	147	175	80-120	4	15	M1

SAMPLE DUPLICATE: 3008045						
Parameter	Units	60383828002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/kg	5520	4820	14	15	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: VGEU 2801-02

Pace Project No.: 60383828

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: VGEU 2801-02

Pace Project No.: 60383828

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60383828001	FS-14	EPA 3546	751233	EPA 8015B	751425
60383828002	FS-15	EPA 3546	751233	EPA 8015B	751425
60383828003	FS-16	EPA 3546	751233	EPA 8015B	751425
60383828004	FS-17	EPA 3546	751233	EPA 8015B	751425
60383828005	FS-18	EPA 3546	751233	EPA 8015B	751425
60383828006	FS-19	EPA 3546	751233	EPA 8015B	751425
60383828007	FS-20	EPA 3546	751233	EPA 8015B	751425
60383828008	FS-21	EPA 3546	751233	EPA 8015B	751425
60383828009	FS-22	EPA 3546	751233	EPA 8015B	751425
60383828010	FS-1 (5')	EPA 3546	751233	EPA 8015B	751425
60383828011	FS-5 (5')	EPA 3546	751233	EPA 8015B	751425
60383828012	FS-6 (5')	EPA 3546	751233	EPA 8015B	751425
60383828013	SSW-14	EPA 3546	751233	EPA 8015B	751425
60383828014	SSW-15	EPA 3546	751233	EPA 8015B	751425
60383828015	SSW-16	EPA 3546	751233	EPA 8015B	751425
60383828016	SSW-17	EPA 3546	751233	EPA 8015B	751425
60383828017	SSW-18	EPA 3546	751233	EPA 8015B	751425
60383828018	SSW-19	EPA 3546	751233	EPA 8015B	751425
60383828001	FS-14	EPA 5035A/5030B	751305	EPA 8015B	751587
60383828002	FS-15	EPA 5035A/5030B	751305	EPA 8015B	751587
60383828003	FS-16	EPA 5035A/5030B	751305	EPA 8015B	751587
60383828004	FS-17	EPA 5035A/5030B	751305	EPA 8015B	751587
60383828005	FS-18	EPA 5035A/5030B	751305	EPA 8015B	751587
60383828006	FS-19	EPA 5035A/5030B	751305	EPA 8015B	751587
60383828007	FS-20	EPA 5035A/5030B	751305	EPA 8015B	751587
60383828008	FS-21	EPA 5035A/5030B	751305	EPA 8015B	751587
60383828009	FS-22	EPA 5035A/5030B	751305	EPA 8015B	751587
60383828010	FS-1 (5')	EPA 5035A/5030B	751305	EPA 8015B	751587
60383828011	FS-5 (5')	EPA 5035A/5030B	751305	EPA 8015B	751587
60383828012	FS-6 (5')	EPA 5035A/5030B	751305	EPA 8015B	751587
60383828013	SSW-14	EPA 5035A/5030B	751305	EPA 8015B	751587
60383828014	SSW-15	EPA 5035A/5030B	751305	EPA 8015B	751587
60383828015	SSW-16	EPA 5035A/5030B	751305	EPA 8015B	751587
60383828016	SSW-17	EPA 5035A/5030B	751305	EPA 8015B	751587
60383828017	SSW-18	EPA 5035A/5030B	751305	EPA 8015B	751587
60383828018	SSW-19	EPA 5035A/5030B	751305	EPA 8015B	751587
60383828001	FS-14	EPA 5035A/5030B	751459	EPA 8260B	751515
60383828002	FS-15	EPA 5035A/5030B	751459	EPA 8260B	751515
60383828003	FS-16	EPA 5035A/5030B	751459	EPA 8260B	751515
60383828004	FS-17	EPA 5035A/5030B	751459	EPA 8260B	751515
60383828005	FS-18	EPA 5035A/5030B	751459	EPA 8260B	751515
60383828006	FS-19	EPA 5035A/5030B	751459	EPA 8260B	751515
60383828007	FS-20	EPA 5035A/5030B	751459	EPA 8260B	751515
60383828008	FS-21	EPA 5035A/5030B	751459	EPA 8260B	751515
60383828009	FS-22	EPA 5035A/5030B	751459	EPA 8260B	751515
60383828010	FS-1 (5')	EPA 5035A/5030B	751459	EPA 8260B	751515
60383828011	FS-5 (5')	EPA 5035A/5030B	751459	EPA 8260B	751515
60383828012	FS-6 (5')	EPA 5035A/5030B	751459	EPA 8260B	751515

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: VGEU 2801-02
Pace Project No.: 60383828

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60383828013	SSW-14	EPA 5035A/5030B	751459	EPA 8260B	751515
60383828014	SSW-15	EPA 5035A/5030B	751459	EPA 8260B	751515
60383828015	SSW-16	EPA 5035A/5030B	751459	EPA 8260B	751515
60383828016	SSW-17	EPA 5035A/5030B	751459	EPA 8260B	751515
60383828017	SSW-18	EPA 5035A/5030B	751459	EPA 8260B	751515
60383828018	SSW-19	EPA 5035A/5030B	751459	EPA 8260B	751515
60383828001	FS-14	ASTM D2974	751127		
60383828002	FS-15	ASTM D2974	751127		
60383828003	FS-16	ASTM D2974	751127		
60383828004	FS-17	ASTM D2974	751127		
60383828005	FS-18	ASTM D2974	751127		
60383828006	FS-19	ASTM D2974	751127		
60383828007	FS-20	ASTM D2974	751127		
60383828008	FS-21	ASTM D2974	751127		
60383828009	FS-22	ASTM D2974	751127		
60383828010	FS-1 (5')	ASTM D2974	751127		
60383828011	FS-5 (5')	ASTM D2974	751127		
60383828012	FS-6 (5')	ASTM D2974	751127		
60383828013	SSW-14	ASTM D2974	751127		
60383828014	SSW-15	ASTM D2974	751127		
60383828015	SSW-16	ASTM D2974	751127		
60383828016	SSW-17	ASTM D2974	751127		
60383828017	SSW-18	ASTM D2974	751127		
60383828018	SSW-19	ASTM D2974	751127		
60383828001	FS-14	EPA 9056	751295	EPA 9056	751524
60383828002	FS-15	EPA 9056	751295	EPA 9056	751524
60383828003	FS-16	EPA 9056	751295	EPA 9056	751524
60383828004	FS-17	EPA 9056	751295	EPA 9056	751524
60383828005	FS-18	EPA 9056	751295	EPA 9056	751524
60383828006	FS-19	EPA 9056	751295	EPA 9056	751524
60383828007	FS-20	EPA 9056	751295	EPA 9056	751524
60383828008	FS-21	EPA 9056	751295	EPA 9056	751524
60383828009	FS-22	EPA 9056	751295	EPA 9056	751524
60383828010	FS-1 (5')	EPA 9056	751295	EPA 9056	751524
60383828011	FS-5 (5')	EPA 9056	751295	EPA 9056	751524
60383828012	FS-6 (5')	EPA 9056	751295	EPA 9056	751524
60383828013	SSW-14	EPA 9056	751295	EPA 9056	751524
60383828014	SSW-15	EPA 9056	751295	EPA 9056	751524
60383828015	SSW-16	EPA 9056	751295	EPA 9056	751524
60383828016	SSW-17	EPA 9056	751295	EPA 9056	751524
60383828017	SSW-18	EPA 9056	751295	EPA 9056	751524
60383828018	SSW-19	EPA 9056	751295	EPA 9056	751524

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Sample Condition Upon Receipt

WO#: 60383828

Client Name: TECHCourier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☐ Other ☐Tracking #: 8V58631498 Pace Shipping Label Used? Yes ☐ No ☐Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☐ Other ☐Thermometer Used: T-296 Type of Ice: Wet ☐ Blue ☐ None ☐Cooler Temperature (°C): As-read 0.5 Corr. Factor -0.2 Corrected 0.3Date and initials of person examining contents: 10/21/21
SEAN B. BROWN

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<u>10/21/21</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>30M/T2H2</u>
Rush Turn Around Time requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>NO Labels; Location on LIDB</u>
Samples contain multiple phases? Matrix:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>NO DATE TIME ONLY DATE NOTED</u>
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>New Mexico</u>
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/ Resolution:

Copy COC to Client? Y / N

Field Data Required? Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

COC PAGE 1 of 2

Client:

SBS _____
DI _____
MeOH (only) _____
BK _____
Kit _____

Site:

Sample Container Count

Profile #

Notes

TP+G Tech

Low Σ draw ≈ 54

COC Line Item	Matrix	R
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

Container Codes

Glass			Plastic	Misc.
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1C
DG9H	40mL HCl amber vial	WGFU	4oz clear soil jar	BP1N
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S
DG9C	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2C
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3C
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U
		AG4U	125mL unpres amber glass	BP3S
		AG5U	100mL unpres amber glass	BP3Z
				BP4U
				BP4N
				BP4S

Sample Container Count

COC PAGE ___ of ___

Client: Tetra Tech

Profile #

SBS

DI

MeOH (only)

BK

Site:

Notes

Kit

COC Line Item	Matrix	α	VG9H	DG9H	DG9Q	VG9U	DG9U	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3C	BP3Z	JGFU	WGKU	ZPLC	DG9M	DG9B
1																												
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

Container Codes

Glass			Plastic			Misc.		
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1C	1L NaOH plastic	I	Wipe/Swab	
DG9H	40mL HCl amber vial	WGFU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate	
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag	
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter	
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes	
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2C	500mL NaOH plastic	R	Terracore Kit	
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can	
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic			
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic			
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate			
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3C	250mL NaOH plastic			
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water	
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid	
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid	
		AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	Oil	
		AG5U	100mL unpres amber glass	BP3Z	250mL NaOH, Zn Acetate	WP	Wipe	
				BP4U	125mL unpreserved plastic	DW	Drinking Water	
				BP4N	125mL HNO3 plastic			
				BP4S	125mL H2SO4 plastic			



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Lenexa, KS 66219
(913)599-5665

October 28, 2021

Clair Gonzales

,

RE: Project: 212C-MD-02099
Pace Project No.: 60384132

Dear Clair Gonzales:

Enclosed are the analytical results for sample(s) received by the laboratory on October 25, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nolie Wood
nolie.wood@pacelabs.com
1(913)563-1401
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: 212C-MD-02099

Pace Project No.: 60384132

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 20-020-0

Arkansas Drinking Water

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212020-2

Oklahoma Certification #: 9205/9935

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-19-12

Utah Certification #: KS000212019-9

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

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SAMPLE SUMMARY

Project: 212C-MD-02099

Pace Project No.: 60384132

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60384132001	SSW-20(10')	Solid	10/20/21 08:20	10/25/21 08:50
60384132002	SSW-21(10')	Solid	10/20/21 08:26	10/25/21 08:50
60384132003	SSW-22(10')	Solid	10/20/21 08:32	10/25/21 08:50
60384132004	SSW-23(6')	Solid	10/20/21 08:38	10/25/21 08:50
60384132005	NSW-8(3')	Solid	10/20/21 08:44	10/25/21 08:50
60384132006	SSW-7	Solid	10/20/21 08:50	10/25/21 08:50
60384132007	SSW-8	Solid	10/20/21 08:56	10/25/21 08:50
60384132008	SSW-9	Solid	10/20/21 09:02	10/25/21 08:50
60384132009	SSW-10	Solid	10/20/21 09:08	10/25/21 08:50
60384132010	NSW-12	Solid	10/21/21 08:35	10/25/21 08:50
60384132011	NSW-13	Solid	10/21/21 08:42	10/25/21 08:50
60384132012	NSW-14	Solid	10/21/21 08:48	10/25/21 08:50
60384132013	NSW-15	Solid	10/21/21 08:54	10/25/21 08:50
60384132014	NSW-16	Solid	10/21/21 09:00	10/25/21 08:50
60384132015	NSW-17	Solid	10/21/21 09:06	10/25/21 08:50

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SAMPLE ANALYTE COUNT

Project: 212C-MD-02099

Pace Project No.: 60384132

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60384132001	SSW-20(10')	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60384132002	SSW-21(10')	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60384132003	SSW-22(10')	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60384132004	SSW-23(6')	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60384132005	NSW-8(3')	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60384132006	SSW-7	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60384132007	SSW-8	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60384132008	SSW-9	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K

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SAMPLE ANALYTE COUNT

Project: 212C-MD-02099
Pace Project No.: 60384132

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60384132009	SSW-10	EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
60384132010	NSW-12	ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
60384132011	NSW-13	EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
60384132012	NSW-14	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
60384132013	NSW-15	EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
60384132014	NSW-16	EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
60384132015	NSW-17	ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
		EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: 212C-MD-02099

Pace Project No.: 60384132

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9056	ALH	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-02099
Pace Project No.: 60384132

Sample: SSW-20(10') Lab ID: 60384132001 Collected: 10/20/21 08:20 Received: 10/25/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	12.2	mg/kg	10.4	1	10/26/21 18:15	10/27/21 12:01		
TPH-ORO (C28-C35)	18.8	mg/kg	10.4	1	10/26/21 18:15	10/27/21 12:01		
Surrogates								
n-Tetracosane (S)	74	%	31-152	1	10/26/21 18:15	10/27/21 12:01	646-31-1	
p-Terphenyl (S)	66	%	46-130	1	10/26/21 18:15	10/27/21 12:01	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	10.9	1	10/26/21 08:27	10/26/21 11:22		
Surrogates								
4-Bromofluorobenzene (S)	98	%	63-121	1	10/26/21 08:27	10/26/21 11:22	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.4	1	10/27/21 11:07	10/27/21 16:28	71-43-2	
Ethylbenzene	ND	ug/kg	5.4	1	10/27/21 11:07	10/27/21 16:28	100-41-4	
Toluene	10.7	ug/kg	5.4	1	10/27/21 11:07	10/27/21 16:28	108-88-3	M1
Xylene (Total)	ND	ug/kg	16.3	1	10/27/21 11:07	10/27/21 16:28	1330-20-7	
Surrogates								
Toluene-d8 (S)	104	%	80-120	1	10/27/21 11:07	10/27/21 16:28	2037-26-5	
4-Bromofluorobenzene (S)	103	%	83-119	1	10/27/21 11:07	10/27/21 16:28	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	1	10/27/21 11:07	10/27/21 16:28	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	4.5	%	0.50	1		10/26/21 14:29		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	ND	mg/kg	107	10	10/27/21 13:57	10/27/21 19:35	16887-00-6	

Sample: SSW-21(10') Lab ID: 60384132002 Collected: 10/20/21 08:26 Received: 10/25/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.5	1	10/26/21 18:15	10/27/21 12:42		
TPH-ORO (C28-C35)	12.6	mg/kg	10.5	1	10/26/21 18:15	10/27/21 12:42		
Surrogates								
n-Tetracosane (S)	94	%	31-152	1	10/26/21 18:15	10/27/21 12:42	646-31-1	
p-Terphenyl (S)	77	%	46-130	1	10/26/21 18:15	10/27/21 12:42	92-94-4	

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ANALYTICAL RESULTS

Project: 212C-MD-02099

Pace Project No.: 60384132

Sample: SSW-21(10') **Lab ID: 60384132002** Collected: 10/20/21 08:26 Received: 10/25/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	10.7	1	10/26/21 08:27	10/26/21 11:38		
Surrogates								
4-Bromofluorobenzene (S)	99	%	63-121	1	10/26/21 08:27	10/26/21 11:38	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.3	1	10/27/21 11:07	10/27/21 16:49	71-43-2	
Ethylbenzene	ND	ug/kg	5.3	1	10/27/21 11:07	10/27/21 16:49	100-41-4	
Toluene	13.1	ug/kg	5.3	1	10/27/21 11:07	10/27/21 16:49	108-88-3	
Xylene (Total)	ND	ug/kg	16.0	1	10/27/21 11:07	10/27/21 16:49	1330-20-7	
Surrogates								
Toluene-d8 (S)	106	%	80-120	1	10/27/21 11:07	10/27/21 16:49	2037-26-5	
4-Bromofluorobenzene (S)	102	%	83-119	1	10/27/21 11:07	10/27/21 16:49	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	10/27/21 11:07	10/27/21 16:49	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	5.6	%	0.50	1		10/26/21 14:29		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	159	mg/kg	107	10	10/27/21 13:57	10/27/21 20:09	16887-00-6	

Sample: SSW-22(10') **Lab ID: 60384132003** Collected: 10/20/21 08:32 Received: 10/25/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.2	1	10/26/21 18:15	10/27/21 12:50		
TPH-ORO (C28-C35)	12.6	mg/kg	10.2	1	10/26/21 18:15	10/27/21 12:50		
Surrogates								
n-Tetracosane (S)	67	%	31-152	1	10/26/21 18:15	10/27/21 12:50	646-31-1	
p-Terphenyl (S)	72	%	46-130	1	10/26/21 18:15	10/27/21 12:50	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	10.1	1	10/26/21 08:27	10/26/21 11:53		
Surrogates								
4-Bromofluorobenzene (S)	98	%	63-121	1	10/26/21 08:27	10/26/21 11:53	460-00-4	

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ANALYTICAL RESULTS

Project: 212C-MD-02099

Pace Project No.: 60384132

Sample: SSW-22(10') Lab ID: 60384132003 Collected: 10/20/21 08:32 Received: 10/25/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.1	1	10/27/21 11:07	10/27/21 17:09	71-43-2	
Ethylbenzene	ND	ug/kg	5.1	1	10/27/21 11:07	10/27/21 17:09	100-41-4	
Toluene	6.1	ug/kg	5.1	1	10/27/21 11:07	10/27/21 17:09	108-88-3	
Xylene (Total)	ND	ug/kg	15.2	1	10/27/21 11:07	10/27/21 17:09	1330-20-7	
Surrogates								
Toluene-d8 (S)	105	%	80-120	1	10/27/21 11:07	10/27/21 17:09	2037-26-5	
4-Bromofluorobenzene (S)	103	%	83-119	1	10/27/21 11:07	10/27/21 17:09	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	10/27/21 11:07	10/27/21 17:09	2199-69-1	

Percent Moisture

Analytical Method: ASTM D2974

Pace Analytical Services - Kansas City

Percent Moisture	5.5	%	0.50	1		10/26/21 14:29		
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9056 IC Anions

Analytical Method: EPA 9056 Preparation Method: EPA 9056

Pace Analytical Services - Kansas City

Chloride	163	mg/kg	104	10	10/27/21 13:57	10/27/21 20:21	16887-00-6	
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Sample: SSW-23(6') Lab ID: 60384132004 Collected: 10/20/21 08:38 Received: 10/25/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	11.1	mg/kg	10.1	1	10/26/21 18:15	10/27/21 12:58		
TPH-ORO (C28-C35)	14.3	mg/kg	10.1	1	10/26/21 18:15	10/27/21 12:58		
Surrogates								
n-Tetracosane (S)	63	%	31-152	1	10/26/21 18:15	10/27/21 12:58	646-31-1	
p-Terphenyl (S)	72	%	46-130	1	10/26/21 18:15	10/27/21 12:58	92-94-4	

Gasoline Range Organics

Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B

Pace Analytical Services - Kansas City

TPH-GRO	ND	mg/kg	10.8	1	10/26/21 08:27	10/26/21 12:08		
Surrogates								
4-Bromofluorobenzene (S)	98	%	63-121	1	10/26/21 08:27	10/26/21 12:08	460-00-4	

8260B MSV 5035A Low Level

Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B

Pace Analytical Services - Kansas City

Benzene	ND	ug/kg	5.4	1	10/27/21 11:07	10/27/21 17:29	71-43-2	
Ethylbenzene	ND	ug/kg	5.4	1	10/27/21 11:07	10/27/21 17:29	100-41-4	
Toluene	6.7	ug/kg	5.4	1	10/27/21 11:07	10/27/21 17:29	108-88-3	
Xylene (Total)	ND	ug/kg	16.2	1	10/27/21 11:07	10/27/21 17:29	1330-20-7	
Surrogates								
Toluene-d8 (S)	105	%	80-120	1	10/27/21 11:07	10/27/21 17:29	2037-26-5	

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ANALYTICAL RESULTS

Project: 212C-MD-02099

Pace Project No.: 60384132

Sample: SSW-23(6') Lab ID: 60384132004 Collected: 10/20/21 08:38 Received: 10/25/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Surrogates								
4-Bromofluorobenzene (S)	103	%	83-119	1	10/27/21 11:07	10/27/21 17:29	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	1	10/27/21 11:07	10/27/21 17:29	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	5.6	%	0.50	1		10/26/21 14:29		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	191	mg/kg	103	10	10/27/21 13:57	10/27/21 20:32	16887-00-6	

Sample: NSW-8(3') Lab ID: 60384132005 Collected: 10/20/21 08:44 Received: 10/25/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	11.1	mg/kg	10.1	1	10/26/21 18:15	10/27/21 13:06		
TPH-ORO (C28-C35)	14.1	mg/kg	10.1	1	10/26/21 18:15	10/27/21 13:06		
Surrogates								
n-Tetracosane (S)	61	%	31-152	1	10/26/21 18:15	10/27/21 13:06	646-31-1	
p-Terphenyl (S)	68	%	46-130	1	10/26/21 18:15	10/27/21 13:06	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	10.1	1	10/26/21 08:27	10/26/21 12:23		
Surrogates								
4-Bromofluorobenzene (S)	99	%	63-121	1	10/26/21 08:27	10/26/21 12:23	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.0	1	10/27/21 11:07	10/27/21 17:49	71-43-2	
Ethylbenzene	ND	ug/kg	5.0	1	10/27/21 11:07	10/27/21 17:49	100-41-4	
Toluene	ND	ug/kg	5.0	1	10/27/21 11:07	10/27/21 17:49	108-88-3	
Xylene (Total)	ND	ug/kg	15.1	1	10/27/21 11:07	10/27/21 17:49	1330-20-7	
Surrogates								
Toluene-d8 (S)	105	%	80-120	1	10/27/21 11:07	10/27/21 17:49	2037-26-5	
4-Bromofluorobenzene (S)	102	%	83-119	1	10/27/21 11:07	10/27/21 17:49	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	10/27/21 11:07	10/27/21 17:49	2199-69-1	

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ANALYTICAL RESULTS

Project: 212C-MD-02099
Pace Project No.: 60384132

Sample: NSW-8(3') **Lab ID: 60384132005** Collected: 10/20/21 08:44 Received: 10/25/21 08:50 Matrix: Solid
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	5.0	%	0.50	1		10/26/21 14:29		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	237	mg/kg	109	10	10/27/21 13:57	10/27/21 20:43	16887-00-6	

Sample: SSW-7 **Lab ID: 60384132006** Collected: 10/20/21 08:50 Received: 10/25/21 08:50 Matrix: Solid
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	18.8	mg/kg	10.2	1	10/26/21 18:15	10/27/21 13:14		
TPH-ORO (C28-C35)	16.5	mg/kg	10.2	1	10/26/21 18:15	10/27/21 13:14		
Surrogates								
n-Tetracosane (S)	74	%	31-152	1	10/26/21 18:15	10/27/21 13:14	646-31-1	
p-Terphenyl (S)	82	%	46-130	1	10/26/21 18:15	10/27/21 13:14	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	10.8	1	10/26/21 08:27	10/26/21 13:08		
Surrogates								
4-Bromofluorobenzene (S)	99	%	63-121	1	10/26/21 08:27	10/26/21 13:08	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.4	1	10/27/21 11:07	10/27/21 18:10	71-43-2	
Ethylbenzene	ND	ug/kg	5.4	1	10/27/21 11:07	10/27/21 18:10	100-41-4	
Toluene	6.9	ug/kg	5.4	1	10/27/21 11:07	10/27/21 18:10	108-88-3	
Xylene (Total)	ND	ug/kg	16.2	1	10/27/21 11:07	10/27/21 18:10	1330-20-7	
Surrogates								
Toluene-d8 (S)	107	%	80-120	1	10/27/21 11:07	10/27/21 18:10	2037-26-5	
4-Bromofluorobenzene (S)	103	%	83-119	1	10/27/21 11:07	10/27/21 18:10	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	10/27/21 11:07	10/27/21 18:10	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	4.9	%	0.50	1		10/26/21 14:29		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	217	mg/kg	108	10	10/27/21 13:57	10/27/21 20:55	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-02099
Pace Project No.: 60384132

Sample: SSW-8 Lab ID: 60384132007 Collected: 10/20/21 08:56 Received: 10/25/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.1	1	10/26/21 18:15	10/27/21 13:22		
TPH-ORO (C28-C35)	ND	mg/kg	10.1	1	10/26/21 18:15	10/27/21 13:22		
Surrogates								
n-Tetracosane (S)	59	%	31-152	1	10/26/21 18:15	10/27/21 13:22	646-31-1	
p-Terphenyl (S)	68	%	46-130	1	10/26/21 18:15	10/27/21 13:22	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	10.8	1	10/26/21 08:27	10/26/21 13:23		
Surrogates								
4-Bromofluorobenzene (S)	98	%	63-121	1	10/26/21 08:27	10/26/21 13:23	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.4	1	10/27/21 11:07	10/27/21 18:30	71-43-2	
Ethylbenzene	ND	ug/kg	5.4	1	10/27/21 11:07	10/27/21 18:30	100-41-4	
Toluene	12.0	ug/kg	5.4	1	10/27/21 11:07	10/27/21 18:30	108-88-3	
Xylene (Total)	ND	ug/kg	16.1	1	10/27/21 11:07	10/27/21 18:30	1330-20-7	
Surrogates								
Toluene-d8 (S)	105	%	80-120	1	10/27/21 11:07	10/27/21 18:30	2037-26-5	
4-Bromofluorobenzene (S)	101	%	83-119	1	10/27/21 11:07	10/27/21 18:30	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	10/27/21 11:07	10/27/21 18:30	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	4.4	%	0.50	1		10/26/21 14:29		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	ND	mg/kg	104	10	10/27/21 13:57	10/27/21 21:06	16887-00-6	

Sample: SSW-9 Lab ID: 60384132008 Collected: 10/20/21 09:02 Received: 10/25/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.5	1	10/26/21 18:15	10/27/21 13:31		
TPH-ORO (C28-C35)	ND	mg/kg	10.5	1	10/26/21 18:15	10/27/21 13:31		
Surrogates								
n-Tetracosane (S)	64	%	31-152	1	10/26/21 18:15	10/27/21 13:31	646-31-1	
p-Terphenyl (S)	72	%	46-130	1	10/26/21 18:15	10/27/21 13:31	92-94-4	

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ANALYTICAL RESULTS

Project: 212C-MD-02099
Pace Project No.: 60384132

Sample: SSW-9 Lab ID: 60384132008 Collected: 10/20/21 09:02 Received: 10/25/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	12.0	1	10/26/21 08:27	10/26/21 13:38		
Surrogates								
4-Bromofluorobenzene (S)	98	%	63-121	1	10/26/21 08:27	10/26/21 13:38	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	6.0	1	10/27/21 11:07	10/27/21 18:50	71-43-2	
Ethylbenzene	ND	ug/kg	6.0	1	10/27/21 11:07	10/27/21 18:50	100-41-4	
Toluene	17.3	ug/kg	6.0	1	10/27/21 11:07	10/27/21 18:50	108-88-3	
Xylene (Total)	ND	ug/kg	17.9	1	10/27/21 11:07	10/27/21 18:50	1330-20-7	
Surrogates								
Toluene-d8 (S)	107	%	80-120	1	10/27/21 11:07	10/27/21 18:50	2037-26-5	
4-Bromofluorobenzene (S)	103	%	83-119	1	10/27/21 11:07	10/27/21 18:50	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	10/27/21 11:07	10/27/21 18:50	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	5.2	%	0.50	1		10/26/21 14:29		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	ND	mg/kg	109	10	10/27/21 13:57	10/27/21 21:17	16887-00-6	

Sample: SSW-10 Lab ID: 60384132009 Collected: 10/20/21 09:08 Received: 10/25/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	ND	mg/kg	10.1	1	10/26/21 18:15	10/27/21 13:39		
TPH-ORO (C28-C35)	ND	mg/kg	10.1	1	10/26/21 18:15	10/27/21 13:39		
Surrogates								
n-Tetracosane (S)	61	%	31-152	1	10/26/21 18:15	10/27/21 13:39	646-31-1	
p-Terphenyl (S)	70	%	46-130	1	10/26/21 18:15	10/27/21 13:39	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	10.2	1	10/26/21 08:27	10/26/21 14:24		
Surrogates								
4-Bromofluorobenzene (S)	95	%	63-121	1	10/26/21 08:27	10/26/21 14:24	460-00-4	

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ANALYTICAL RESULTS

Project: 212C-MD-02099

Pace Project No.: 60384132

Sample: SSW-10 Lab ID: 60384132009 Collected: 10/20/21 09:08 Received: 10/25/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.1	1	10/27/21 11:07	10/27/21 19:10	71-43-2	
Ethylbenzene	ND	ug/kg	5.1	1	10/27/21 11:07	10/27/21 19:10	100-41-4	
Toluene	13.8	ug/kg	5.1	1	10/27/21 11:07	10/27/21 19:10	108-88-3	
Xylene (Total)	ND	ug/kg	15.3	1	10/27/21 11:07	10/27/21 19:10	1330-20-7	
Surrogates								
Toluene-d8 (S)	108	%	80-120	1	10/27/21 11:07	10/27/21 19:10	2037-26-5	
4-Bromofluorobenzene (S)	102	%	83-119	1	10/27/21 11:07	10/27/21 19:10	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	10/27/21 11:07	10/27/21 19:10	2199-69-1	

Percent Moisture

Analytical Method: ASTM D2974

Pace Analytical Services - Kansas City

Percent Moisture	4.4	%	0.50	1		10/26/21 14:29		
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9056 IC Anions

Analytical Method: EPA 9056 Preparation Method: EPA 9056

Pace Analytical Services - Kansas City

Chloride	117	mg/kg	104	10	10/27/21 13:57	10/27/21 21:29	16887-00-6	
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Sample: NSW-12 Lab ID: 60384132010 Collected: 10/21/21 08:35 Received: 10/25/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	33.7	mg/kg	10.3	1	10/26/21 18:15	10/27/21 13:47		
TPH-ORO (C28-C35)	49.5	mg/kg	10.3	1	10/26/21 18:15	10/27/21 13:47		
Surrogates								
n-Tetracosane (S)	77	%	31-152	1	10/26/21 18:15	10/27/21 13:47	646-31-1	
p-Terphenyl (S)	88	%	46-130	1	10/26/21 18:15	10/27/21 13:47	92-94-4	

Gasoline Range Organics

Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B

Pace Analytical Services - Kansas City

TPH-GRO	ND	mg/kg	10.0	1	10/26/21 08:27	10/26/21 14:40		
Surrogates								
4-Bromofluorobenzene (S)	98	%	63-121	1	10/26/21 08:27	10/26/21 14:40	460-00-4	

8260B MSV 5035A Low Level

Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B

Pace Analytical Services - Kansas City

Benzene	ND	ug/kg	5.0	1	10/27/21 11:07	10/27/21 19:31	71-43-2	
Ethylbenzene	ND	ug/kg	5.0	1	10/27/21 11:07	10/27/21 19:31	100-41-4	
Toluene	11.8	ug/kg	5.0	1	10/27/21 11:07	10/27/21 19:31	108-88-3	
Xylene (Total)	ND	ug/kg	15.0	1	10/27/21 11:07	10/27/21 19:31	1330-20-7	
Surrogates								
Toluene-d8 (S)	105	%	80-120	1	10/27/21 11:07	10/27/21 19:31	2037-26-5	

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ANALYTICAL RESULTS

Project: 212C-MD-02099

Pace Project No.: 60384132

Sample: NSW-12 Lab ID: 60384132010 Collected: 10/21/21 08:35 Received: 10/25/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Surrogates								
4-Bromofluorobenzene (S)	102	%	83-119	1	10/27/21 11:07	10/27/21 19:31	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	10/27/21 11:07	10/27/21 19:31	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	3.9	%	0.50	1		10/26/21 14:29		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056								
Pace Analytical Services - Kansas City								
Chloride	267	mg/kg	102	10	10/27/21 13:57	10/27/21 21:40	16887-00-6	

Sample: NSW-13 Lab ID: 60384132011 Collected: 10/21/21 08:42 Received: 10/25/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	57.0	mg/kg	10.2	1	10/26/21 18:15	10/27/21 13:55		
TPH-ORO (C28-C35)	90.8	mg/kg	10.2	1	10/26/21 18:15	10/27/21 13:55		
Surrogates								
n-Tetracosane (S)	85	%	31-152	1	10/26/21 18:15	10/27/21 13:55	646-31-1	
p-Terphenyl (S)	89	%	46-130	1	10/26/21 18:15	10/27/21 13:55	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	10.1	1	10/26/21 08:27	10/26/21 14:55		
Surrogates								
4-Bromofluorobenzene (S)	97	%	63-121	1	10/26/21 08:27	10/26/21 14:55	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.1	1	10/27/21 11:07	10/27/21 19:51	71-43-2	
Ethylbenzene	ND	ug/kg	5.1	1	10/27/21 11:07	10/27/21 19:51	100-41-4	
Toluene	13.1	ug/kg	5.1	1	10/27/21 11:07	10/27/21 19:51	108-88-3	
Xylene (Total)	ND	ug/kg	15.2	1	10/27/21 11:07	10/27/21 19:51	1330-20-7	
Surrogates								
Toluene-d8 (S)	106	%	80-120	1	10/27/21 11:07	10/27/21 19:51	2037-26-5	
4-Bromofluorobenzene (S)	102	%	83-119	1	10/27/21 11:07	10/27/21 19:51	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	10/27/21 11:07	10/27/21 19:51	2199-69-1	

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ANALYTICAL RESULTS

Project: 212C-MD-02099
Pace Project No.: 60384132

Sample: NSW-13 **Lab ID: 60384132011** Collected: 10/21/21 08:42 Received: 10/25/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	4.3	%	0.50	1		10/26/21 14:29		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	ND	mg/kg	103	10	10/27/21 13:57	10/27/21 21:51	16887-00-6	

Sample: NSW-14 **Lab ID: 60384132012** Collected: 10/21/21 08:48 Received: 10/25/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	13.9	mg/kg	10.2	1	10/26/21 18:15	10/27/21 14:03		
TPH-ORO (C28-C35)	26.0	mg/kg	10.2	1	10/26/21 18:15	10/27/21 14:03		
Surrogates								
n-Tetracosane (S)	66	%	31-152	1	10/26/21 18:15	10/27/21 14:03	646-31-1	
p-Terphenyl (S)	74	%	46-130	1	10/26/21 18:15	10/27/21 14:03	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	11.2	1	10/26/21 08:27	10/26/21 15:10		
Surrogates								
4-Bromofluorobenzene (S)	96	%	63-121	1	10/26/21 08:27	10/26/21 15:10	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.6	1	10/27/21 11:07	10/27/21 20:11	71-43-2	
Ethylbenzene	ND	ug/kg	5.6	1	10/27/21 11:07	10/27/21 20:11	100-41-4	
Toluene	30.1	ug/kg	5.6	1	10/27/21 11:07	10/27/21 20:11	108-88-3	
Xylene (Total)	ND	ug/kg	16.9	1	10/27/21 11:07	10/27/21 20:11	1330-20-7	
Surrogates								
Toluene-d8 (S)	105	%	80-120	1	10/27/21 11:07	10/27/21 20:11	2037-26-5	
4-Bromofluorobenzene (S)	102	%	83-119	1	10/27/21 11:07	10/27/21 20:11	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	10/27/21 11:07	10/27/21 20:11	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	6.8	%	0.50	1		10/26/21 14:29		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	1240	mg/kg	108	10	10/27/21 13:57	10/27/21 22:25	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-02099

Pace Project No.: 60384132

Sample: NSW-15 Lab ID: 60384132013 Collected: 10/21/21 08:54 Received: 10/25/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	68.2	mg/kg	10.0	1	10/26/21 18:15	10/27/21 14:11		
TPH-ORO (C28-C35)	116	mg/kg	10.0	1	10/26/21 18:15	10/27/21 14:11		
Surrogates								
n-Tetracosane (S)	80	%	31-152	1	10/26/21 18:15	10/27/21 14:11	646-31-1	
p-Terphenyl (S)	81	%	46-130	1	10/26/21 18:15	10/27/21 14:11	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	9.9	1	10/26/21 08:27	10/26/21 15:25		
Surrogates								
4-Bromofluorobenzene (S)	97	%	63-121	1	10/26/21 08:27	10/26/21 15:25	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.0	1	10/27/21 11:07	10/27/21 20:31	71-43-2	
Ethylbenzene	ND	ug/kg	5.0	1	10/27/21 11:07	10/27/21 20:31	100-41-4	
Toluene	6.4	ug/kg	5.0	1	10/27/21 11:07	10/27/21 20:31	108-88-3	
Xylene (Total)	ND	ug/kg	14.9	1	10/27/21 11:07	10/27/21 20:31	1330-20-7	
Surrogates								
Toluene-d8 (S)	105	%	80-120	1	10/27/21 11:07	10/27/21 20:31	2037-26-5	
4-Bromofluorobenzene (S)	101	%	83-119	1	10/27/21 11:07	10/27/21 20:31	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	10/27/21 11:07	10/27/21 20:31	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	3.6	%	0.50	1		10/26/21 14:29		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056								
Pace Analytical Services - Kansas City								
Chloride	ND	mg/kg	104	10	10/27/21 13:57	10/27/21 22:37	16887-00-6	

Sample: NSW-16 Lab ID: 60384132014 Collected: 10/21/21 09:00 Received: 10/25/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	45.3	mg/kg	10.1	1	10/26/21 18:15	10/27/21 14:19		
TPH-ORO (C28-C35)	61.8	mg/kg	10.1	1	10/26/21 18:15	10/27/21 14:19		
Surrogates								
n-Tetracosane (S)	73	%	31-152	1	10/26/21 18:15	10/27/21 14:19	646-31-1	
p-Terphenyl (S)	76	%	46-130	1	10/26/21 18:15	10/27/21 14:19	92-94-4	

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ANALYTICAL RESULTS

Project: 212C-MD-02099

Pace Project No.: 60384132

Sample: NSW-16 **Lab ID: 60384132014** Collected: 10/21/21 09:00 Received: 10/25/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	10.3	1	10/26/21 08:27	10/26/21 15:40		
Surrogates								
4-Bromofluorobenzene (S)	97	%	63-121	1	10/26/21 08:27	10/26/21 15:40	460-00-4	
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	5.7	ug/kg	5.1	1	10/27/21 11:07	10/27/21 20:52	71-43-2	
Ethylbenzene	ND	ug/kg	5.1	1	10/27/21 11:07	10/27/21 20:52	100-41-4	
Toluene	35.6	ug/kg	5.1	1	10/27/21 11:07	10/27/21 20:52	108-88-3	
Xylene (Total)	16.2	ug/kg	15.4	1	10/27/21 11:07	10/27/21 20:52	1330-20-7	
Surrogates								
Toluene-d8 (S)	107	%	80-120	1	10/27/21 11:07	10/27/21 20:52	2037-26-5	
4-Bromofluorobenzene (S)	100	%	83-119	1	10/27/21 11:07	10/27/21 20:52	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	1	10/27/21 11:07	10/27/21 20:52	2199-69-1	
Percent Moisture								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	5.7	%	0.50	1		10/26/21 14:29		
9056 IC Anions								
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	ND	mg/kg	110	10	10/27/21 13:57	10/27/21 22:48	16887-00-6	

Sample: NSW-17 **Lab ID: 60384132015** Collected: 10/21/21 09:06 Received: 10/25/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
TPH-DRO (C10-C28)	30.1	mg/kg	10.3	1	10/26/21 18:15	10/27/21 14:27		
TPH-ORO (C28-C35)	46.7	mg/kg	10.3	1	10/26/21 18:15	10/27/21 14:27		
Surrogates								
n-Tetracosane (S)	66	%	31-152	1	10/26/21 18:15	10/27/21 14:27	646-31-1	
p-Terphenyl (S)	73	%	46-130	1	10/26/21 18:15	10/27/21 14:27	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
TPH-GRO	ND	mg/kg	10.9	1	10/26/21 08:27	10/26/21 15:55		
Surrogates								
4-Bromofluorobenzene (S)	97	%	63-121	1	10/26/21 08:27	10/26/21 15:55	460-00-4	

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ANALYTICAL RESULTS

Project: 212C-MD-02099

Pace Project No.: 60384132

Sample: NSW-17 Lab ID: 60384132015 Collected: 10/21/21 09:06 Received: 10/25/21 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City								
Benzene	ND	ug/kg	5.4	1	10/27/21 11:07	10/27/21 21:12	71-43-2	
Ethylbenzene	ND	ug/kg	5.4	1	10/27/21 11:07	10/27/21 21:12	100-41-4	
Toluene	6.1	ug/kg	5.4	1	10/27/21 11:07	10/27/21 21:12	108-88-3	
Xylene (Total)	ND	ug/kg	16.3	1	10/27/21 11:07	10/27/21 21:12	1330-20-7	
Surrogates								
Toluene-d8 (S)	105	%	80-120	1	10/27/21 11:07	10/27/21 21:12	2037-26-5	
4-Bromofluorobenzene (S)	102	%	83-119	1	10/27/21 11:07	10/27/21 21:12	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	80-120	1	10/27/21 11:07	10/27/21 21:12	2199-69-1	
Percent Moisture Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	4.4	%	0.50	1		10/26/21 14:30		
9056 IC Anions Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City								
Chloride	234	mg/kg	108	10	10/27/21 13:57	10/27/21 23:00	16887-00-6	

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QUALITY CONTROL DATA

Project: 212C-MD-02099

Pace Project No.: 60384132

QC Batch:	751960	Analysis Method:	EPA 8015B
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	Gasoline Range Organics
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60384132001, 60384132002, 60384132003, 60384132004, 60384132005, 60384132006, 60384132007, 60384132008, 60384132009, 60384132010, 60384132011, 60384132012, 60384132013, 60384132014, 60384132015

METHOD BLANK:	3010489	Matrix:	Solid
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Associated Lab Samples: 60384132001, 60384132002, 60384132003, 60384132004, 60384132005, 60384132006, 60384132007, 60384132008, 60384132009, 60384132010, 60384132011, 60384132012, 60384132013, 60384132014, 60384132015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	10/26/21 11:07	
4-Bromofluorobenzene (S)	%	99	63-121	10/26/21 11:07	

LABORATORY CONTROL SAMPLE: 3010490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	51.1	102	71-107	
4-Bromofluorobenzene (S)	%			102	63-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3010491 3010492

Parameter	Units	60384132005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-GRO	mg/kg	ND	51.4	51.4	53.4	52.8	102	101	29-143	1	26	
4-Bromofluorobenzene (S)	%						102	103	63-121			

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QUALITY CONTROL DATA

Project: 212C-MD-02099

Pace Project No.: 60384132

QC Batch:	752332	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	8260B MSV 5035A Low Level
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60384132001, 60384132002, 60384132003, 60384132004, 60384132005, 60384132006, 60384132007, 60384132008, 60384132009, 60384132010, 60384132011, 60384132012, 60384132013, 60384132014, 60384132015		

METHOD BLANK:	3011586	Matrix:	Solid
Associated Lab Samples:	60384132001, 60384132002, 60384132003, 60384132004, 60384132005, 60384132006, 60384132007, 60384132008, 60384132009, 60384132010, 60384132011, 60384132012, 60384132013, 60384132014, 60384132015		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	10/27/21 15:27	
Ethylbenzene	ug/kg	ND	5.0	10/27/21 15:27	
Toluene	ug/kg	ND	5.0	10/27/21 15:27	
Xylene (Total)	ug/kg	ND	15.0	10/27/21 15:27	
1,2-Dichlorobenzene-d4 (S)	%	99	80-120	10/27/21 15:27	
4-Bromofluorobenzene (S)	%	105	83-119	10/27/21 15:27	
Toluene-d8 (S)	%	110	80-120	10/27/21 15:27	

LABORATORY CONTROL SAMPLE: 3011587

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	1250	1160	93	67-126	
Ethylbenzene	ug/kg	1250	1130	91	69-127	
Toluene	ug/kg	1250	1310	105	80-118	
Xylene (Total)	ug/kg	3750	3740	100	69-130	
1,2-Dichlorobenzene-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			99	83-119	
Toluene-d8 (S)	%			93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3011588 3011589

Parameter	Units	60384132001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	1360	1360	1510	1670	111	123	17-134	10	53	
Ethylbenzene	ug/kg	ND	1360	1360	1440	1580	106	116	10-137	10	60	
Toluene	ug/kg	10.7	1360	1360	1630	1830	119	134	13-131	12	60	M1
Xylene (Total)	ug/kg	ND	4080	4080	4750	5260	116	129	10-137	10	58	
1,2-Dichlorobenzene-d4 (S)	%						100	102	80-120			
4-Bromofluorobenzene (S)	%						98	96	83-119			
Toluene-d8 (S)	%						93	95	80-120			

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QUALITY CONTROL DATA

Project: 212C-MD-02099

Pace Project No.: 60384132

QC Batch: 751958

Analysis Method: EPA 8015B

QC Batch Method: EPA 3546

Analysis Description: EPA 8015B

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60384132001, 60384132002, 60384132003, 60384132004, 60384132005, 60384132006, 60384132007, 60384132008, 60384132009, 60384132010, 60384132011, 60384132012, 60384132013, 60384132014, 60384132015

METHOD BLANK: 3010471

Matrix: Solid

Associated Lab Samples: 60384132001, 60384132002, 60384132003, 60384132004, 60384132005, 60384132006, 60384132007, 60384132008, 60384132009, 60384132010, 60384132011, 60384132012, 60384132013, 60384132014, 60384132015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO (C10-C28)	mg/kg	ND	9.8	10/27/21 11:45	
TPH-ORO (C28-C35)	mg/kg	ND	9.8	10/27/21 11:45	
n-Tetracosane (S)	%	76	31-152	10/27/21 11:45	
p-Terphenyl (S)	%	73	46-130	10/27/21 11:45	

LABORATORY CONTROL SAMPLE: 3010472

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO (C10-C28)	mg/kg	79.1	63.0	80	74-124	
n-Tetracosane (S)	%			76	31-152	
p-Terphenyl (S)	%			74	46-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3010473 3010474

Parameter	Units	60384132001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-DRO (C10-C28)	mg/kg	12.2	85.8	86.4	81.0	79.2	80	78	30-130	2	35	
n-Tetracosane (S)	%						80	77	31-152			
p-Terphenyl (S)	%						69	62	46-130			

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QUALITY CONTROL DATA

Project: 212C-MD-02099

Pace Project No.: 60384132

QC Batch:	752052	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60384132001, 60384132002, 60384132003, 60384132004, 60384132005, 60384132006, 60384132007, 60384132008, 60384132009, 60384132010, 60384132011, 60384132012, 60384132013, 60384132014, 60384132015		

METHOD BLANK:	3010778	Matrix:	Solid
Associated Lab Samples:	60384132001, 60384132002, 60384132003, 60384132004, 60384132005, 60384132006, 60384132007, 60384132008, 60384132009, 60384132010, 60384132011, 60384132012, 60384132013, 60384132014, 60384132015		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	10/26/21 14:28	

SAMPLE DUPLICATE: 3010779

Parameter	Units	50300923001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.4	18.3	5	20	

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QUALITY CONTROL DATA

Project: 212C-MD-02099
Pace Project No.: 60384132

QC Batch:	752311	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60384132001, 60384132002, 60384132003, 60384132004, 60384132005, 60384132006, 60384132007, 60384132008, 60384132009, 60384132010, 60384132011, 60384132012, 60384132013, 60384132014, 60384132015		

METHOD BLANK:	3011497	Matrix:	Solid
Associated Lab Samples:	60384132001, 60384132002, 60384132003, 60384132004, 60384132005, 60384132006, 60384132007, 60384132008, 60384132009, 60384132010, 60384132011, 60384132012, 60384132013, 60384132014, 60384132015		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	100	10/27/21 11:00	

LABORATORY CONTROL SAMPLE: 3011498						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	500	482	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
3011499					3011500							
		60383479001	MS	MSD								
Parameter	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/ka	ND	605	595	552	552	81	82	80-120	0	15	

SAMPLE DUPLICATE: 3011501						
Parameter	Units	60383479002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/kg	ND	60.9J		15	

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QUALIFIERS

Project: 212C-MD-02099

Pace Project No.: 60384132

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 212C-MD-02099
Pace Project No.: 60384132

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60384132001	SSW-20(10')	EPA 3546	751958	EPA 8015B	752353
60384132002	SSW-21(10')	EPA 3546	751958	EPA 8015B	752353
60384132003	SSW-22(10')	EPA 3546	751958	EPA 8015B	752353
60384132004	SSW-23(6')	EPA 3546	751958	EPA 8015B	752353
60384132005	NSW-8(3')	EPA 3546	751958	EPA 8015B	752353
60384132006	SSW-7	EPA 3546	751958	EPA 8015B	752353
60384132007	SSW-8	EPA 3546	751958	EPA 8015B	752353
60384132008	SSW-9	EPA 3546	751958	EPA 8015B	752353
60384132009	SSW-10	EPA 3546	751958	EPA 8015B	752353
60384132010	NSW-12	EPA 3546	751958	EPA 8015B	752353
60384132011	NSW-13	EPA 3546	751958	EPA 8015B	752353
60384132012	NSW-14	EPA 3546	751958	EPA 8015B	752353
60384132013	NSW-15	EPA 3546	751958	EPA 8015B	752353
60384132014	NSW-16	EPA 3546	751958	EPA 8015B	752353
60384132015	NSW-17	EPA 3546	751958	EPA 8015B	752353
60384132001	SSW-20(10')	EPA 5035A/5030B	751960	EPA 8015B	752026
60384132002	SSW-21(10')	EPA 5035A/5030B	751960	EPA 8015B	752026
60384132003	SSW-22(10')	EPA 5035A/5030B	751960	EPA 8015B	752026
60384132004	SSW-23(6')	EPA 5035A/5030B	751960	EPA 8015B	752026
60384132005	NSW-8(3')	EPA 5035A/5030B	751960	EPA 8015B	752026
60384132006	SSW-7	EPA 5035A/5030B	751960	EPA 8015B	752026
60384132007	SSW-8	EPA 5035A/5030B	751960	EPA 8015B	752026
60384132008	SSW-9	EPA 5035A/5030B	751960	EPA 8015B	752026
60384132009	SSW-10	EPA 5035A/5030B	751960	EPA 8015B	752026
60384132010	NSW-12	EPA 5035A/5030B	751960	EPA 8015B	752026
60384132011	NSW-13	EPA 5035A/5030B	751960	EPA 8015B	752026
60384132012	NSW-14	EPA 5035A/5030B	751960	EPA 8015B	752026
60384132013	NSW-15	EPA 5035A/5030B	751960	EPA 8015B	752026
60384132014	NSW-16	EPA 5035A/5030B	751960	EPA 8015B	752026
60384132015	NSW-17	EPA 5035A/5030B	751960	EPA 8015B	752026
60384132001	SSW-20(10')	EPA 5035A/5030B	752332	EPA 8260B	752378
60384132002	SSW-21(10')	EPA 5035A/5030B	752332	EPA 8260B	752378
60384132003	SSW-22(10')	EPA 5035A/5030B	752332	EPA 8260B	752378
60384132004	SSW-23(6')	EPA 5035A/5030B	752332	EPA 8260B	752378
60384132005	NSW-8(3')	EPA 5035A/5030B	752332	EPA 8260B	752378
60384132006	SSW-7	EPA 5035A/5030B	752332	EPA 8260B	752378
60384132007	SSW-8	EPA 5035A/5030B	752332	EPA 8260B	752378
60384132008	SSW-9	EPA 5035A/5030B	752332	EPA 8260B	752378
60384132009	SSW-10	EPA 5035A/5030B	752332	EPA 8260B	752378
60384132010	NSW-12	EPA 5035A/5030B	752332	EPA 8260B	752378
60384132011	NSW-13	EPA 5035A/5030B	752332	EPA 8260B	752378
60384132012	NSW-14	EPA 5035A/5030B	752332	EPA 8260B	752378
60384132013	NSW-15	EPA 5035A/5030B	752332	EPA 8260B	752378
60384132014	NSW-16	EPA 5035A/5030B	752332	EPA 8260B	752378
60384132015	NSW-17	EPA 5035A/5030B	752332	EPA 8260B	752378
60384132001	SSW-20(10')	ASTM D2974	752052		
60384132002	SSW-21(10')	ASTM D2974	752052		

REPORT OF LABORATORY ANALYSIS

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Date: 10/28/2021 03:08 PM

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 212C-MD-02099
Pace Project No.: 60384132

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60384132003	SSW-22(10')	ASTM D2974	752052		
60384132004	SSW-23(6')	ASTM D2974	752052		
60384132005	NSW-8(3')	ASTM D2974	752052		
60384132006	SSW-7	ASTM D2974	752052		
60384132007	SSW-8	ASTM D2974	752052		
60384132008	SSW-9	ASTM D2974	752052		
60384132009	SSW-10	ASTM D2974	752052		
60384132010	NSW-12	ASTM D2974	752052		
60384132011	NSW-13	ASTM D2974	752052		
60384132012	NSW-14	ASTM D2974	752052		
60384132013	NSW-15	ASTM D2974	752052		
60384132014	NSW-16	ASTM D2974	752052		
60384132015	NSW-17	ASTM D2974	752052		
60384132001	SSW-20(10')	EPA 9056	752311	EPA 9056	752437
60384132002	SSW-21(10')	EPA 9056	752311	EPA 9056	752437
60384132003	SSW-22(10')	EPA 9056	752311	EPA 9056	752437
60384132004	SSW-23(6')	EPA 9056	752311	EPA 9056	752437
60384132005	NSW-8(3')	EPA 9056	752311	EPA 9056	752437
60384132006	SSW-7	EPA 9056	752311	EPA 9056	752437
60384132007	SSW-8	EPA 9056	752311	EPA 9056	752437
60384132008	SSW-9	EPA 9056	752311	EPA 9056	752437
60384132009	SSW-10	EPA 9056	752311	EPA 9056	752437
60384132010	NSW-12	EPA 9056	752311	EPA 9056	752437
60384132011	NSW-13	EPA 9056	752311	EPA 9056	752437
60384132012	NSW-14	EPA 9056	752311	EPA 9056	752437
60384132013	NSW-15	EPA 9056	752311	EPA 9056	752437
60384132014	NSW-16	EPA 9056	752311	EPA 9056	752437
60384132015	NSW-17	EPA 9056	752311	EPA 9056	752437

REPORT OF LABORATORY ANALYSIS

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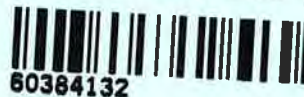
Date: 10/28/2021 03:08 PM

Page 27 of 30



Sample Condition Upon Receipt

WO#: 60384132

Client Name: Tetra Tech, IncCourier: FedEx ☒ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☐ Other ☐Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☒Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐Packing Material: Bubble Wrap ☒ Bubble Bags ☒ Foam ☐ None ☐ Other ☐Thermometer Used: T-299 Type of Ice: Wet Blue NoneCooler Temperature (°C): As-read 1.5 Corr. Factor -0.2 Corrected 1.3Date and initials of person
examining contents: WIK

Temperature should be above freezing to 6°C


Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>72 HOUR RUSH!</u>
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>(1) 4oz per sample</u>
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: <u>SL</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/ Resolution: Copy COC to Client? Y ☒ N ☐ Field Data Required? Y ☐ N ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____


 <h1 style="text-align: center;">Tetra Tech, Inc.</h1>		901 West Wall Street, Suite 100 Midland, Texas 79701 Tel (432) 682-4559 Fax (432) 682-	
Client Name:	Conoco Phillips	Site Manager:	Christian Lull
Project Name:	VGEU 2801-02	Contact Info:	Email: christian.lull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	Project #:	212C-MD-02099
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	Sampler Signature:	John Thurston

[illegible]

ORIGINAL COPY

ANALYSIS REQUEST

[illegible]

Relinquished by: 	Date: 10/22/21	Time: 1500	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

ORIGINAL COPY

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

November 16, 2021

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU SATELLITE 1-2 TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 11/10/21 11:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MIDLAND BP 22
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
16-Nov-21 09:32

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW - 21 - 1	H213199-01	Soil	10-Nov-21 10:45	10-Nov-21 11:45
FS - 21 - 1	H213199-02	Soil	10-Nov-21 10:50	10-Nov-21 11:45

11/16/21 - Client changed the project name and number. This is the revised report and will replace the one sent on 11/15/21.

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MIDLAND BP 22
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
16-Nov-21 09:32

SW - 21 - 1
H213199-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	640		16.0	mg/kg	4	1111107	AC	11-Nov-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1111113	MS	11-Nov-21	8021B	
Toluene*	0.069		0.050	mg/kg	50	1111113	MS	11-Nov-21	8021B	
Ethylbenzene*	0.050		0.050	mg/kg	50	1111113	MS	11-Nov-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1111113	MS	11-Nov-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1111113	MS	11-Nov-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			93.4 %	69.9-140		1111113	MS	11-Nov-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1111114	MS	12-Nov-21	8015B	
DRO >C10-C28*	1040		10.0	mg/kg	1	1111114	MS	12-Nov-21	8015B	
EXT DRO >C28-C36	701		10.0	mg/kg	1	1111114	MS	12-Nov-21	8015B	

Surrogate: 1-Chlorooctane			91.1 %	44.3-133		1111114	MS	12-Nov-21	8015B	
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Surrogate: 1-Chlorooctadecane			131 %	38.9-142		1111114	MS	12-Nov-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MIDLAND BP 22
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
16-Nov-21 09:32

FS - 21 - 1
H213199-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	7730		16.0	mg/kg	4	1111107	AC	11-Nov-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	3.67		0.200	mg/kg	200	1111113	MS	11-Nov-21	8021B	
Toluene*	30.9		0.200	mg/kg	200	1111113	MS	11-Nov-21	8021B	
Ethylbenzene*	34.8		0.200	mg/kg	200	1111113	MS	11-Nov-21	8021B	
Total Xylenes*	55.1		0.600	mg/kg	200	1111113	MS	11-Nov-21	8021B	
Total BTEX	124		1.20	mg/kg	200	1111113	MS	11-Nov-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			128 %	69.9-140		1111113	MS	11-Nov-21	8021B	
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Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	876		50.0	mg/kg	5	1111114	MS	12-Nov-21	8015B	
DRO >C10-C28*	4650		50.0	mg/kg	5	1111114	MS	12-Nov-21	8015B	
EXT DRO >C28-C36	887		50.0	mg/kg	5	1111114	MS	12-Nov-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			160 %	44.3-133		1111114	MS	12-Nov-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			144 %	38.9-142		1111114	MS	12-Nov-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MIDLAND BP 22
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
16-Nov-21 09:32

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1111107 - 1:4 DI Water									
Blank (1111107-BLK1)					Prepared & Analyzed: 11-Nov-21				
Chloride	ND	16.0	mg/kg						
LCS (1111107-BS1)					Prepared & Analyzed: 11-Nov-21				
Chloride	432	16.0	mg/kg	400	108	80-120			
LCS Dup (1111107-BSD1)					Prepared & Analyzed: 11-Nov-21				
Chloride	432	16.0	mg/kg	400	108	80-120	0.00	20	

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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MIDLAND BP 22
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
16-Nov-21 09:32

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 111113 - Volatiles**Blank (111113-BLK1)**

Prepared & Analyzed: 11-Nov-21

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		93.2	69.9-140			

LCS (111113-BS1)

Prepared & Analyzed: 11-Nov-21

Benzene	2.09	0.050	mg/kg	2.00		104	85.1-114			
Toluene	1.98	0.050	mg/kg	2.00		99.0	88.6-116			
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.4	84.4-115			
m,p-Xylene	4.07	0.100	mg/kg	4.00		102	85.5-116			
o-Xylene	1.95	0.050	mg/kg	2.00		97.5	85.2-111			
Total Xylenes	6.02	0.150	mg/kg	6.00		100	86.2-113			
Surrogate: 4-Bromofluorobenzene (PID)	0.0462		mg/kg	0.0500		92.4	69.9-140			

LCS Dup (111113-BSD1)

Prepared & Analyzed: 11-Nov-21

Benzene	2.15	0.050	mg/kg	2.00		107	85.1-114	2.90	12.6	
Toluene	2.02	0.050	mg/kg	2.00		101	88.6-116	1.92	13.3	
Ethylbenzene	2.02	0.050	mg/kg	2.00		101	84.4-115	2.67	13.9	
m,p-Xylene	4.19	0.100	mg/kg	4.00		105	85.5-116	2.91	13.6	
o-Xylene	2.02	0.050	mg/kg	2.00		101	85.2-111	3.57	14.1	
Total Xylenes	6.21	0.150	mg/kg	6.00		104	86.2-113	3.13	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0461		mg/kg	0.0500		92.2	69.9-140			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MIDLAND BP 22
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
16-Nov-21 09:32

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 111114 - General Prep - Organics**Blank (111114-BLK1)**

Prepared & Analyzed: 11-Nov-21

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	52.1		mg/kg	50.0		104	44.3-133			
Surrogate: 1-Chlorooctadecane	54.0		mg/kg	50.0		108	38.9-142			

LCS (111114-BS1)

Prepared & Analyzed: 11-Nov-21

GRO C6-C10	231	10.0	mg/kg	200		116	83.4-129			
DRO >C10-C28	227	10.0	mg/kg	200		114	79.3-136			
Total TPH C6-C28	459	10.0	mg/kg	400		115	85.3-130			
Surrogate: 1-Chlorooctane	56.1		mg/kg	50.0		112	44.3-133			
Surrogate: 1-Chlorooctadecane	57.2		mg/kg	50.0		114	38.9-142			

LCS Dup (111114-BSD1)

Prepared & Analyzed: 11-Nov-21

GRO C6-C10	221	10.0	mg/kg	200		110	83.4-129	4.75	12.6	
DRO >C10-C28	208	10.0	mg/kg	200		104	79.3-136	8.67	12.1	
Total TPH C6-C28	429	10.0	mg/kg	400		107	85.3-130	6.67	11.6	
Surrogate: 1-Chlorooctane	55.0		mg/kg	50.0		110	44.3-133			
Surrogate: 1-Chlorooctadecane	56.5		mg/kg	50.0		113	38.9-142			

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Page 1 of 1

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

November 19, 2021

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: VGFU 01-02 SATELLITE 1,2

Enclosed are the results of analyses for samples received by the laboratory on 11/18/21 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/18/2021	Sampling Date:	11/18/2021
Reported:	11/19/2021	Sampling Type:	Soil
Project Name:	VGFU 01-02 SATELLITE 1,2	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	LEA CO NM		

Sample ID: SW - 21 - 1 (2') (H213320-01)

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	11/19/2021	ND	2.06	103	2.00	0.531		
Toluene*	<0.050	0.050	11/19/2021	ND	1.95	97.3	2.00	0.251		
Ethylbenzene*	<0.050	0.050	11/19/2021	ND	1.92	95.9	2.00	0.200		
Total Xylenes*	<0.150	0.150	11/19/2021	ND	5.84	97.4	6.00	0.720		
Total BTEX	<0.300	0.300	11/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 69.9-140

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	11/19/2021	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	11/19/2021	ND	191	95.6	200	6.50	
DRO >C10-C28*	312	10.0	11/19/2021	ND	216	108	200	5.29	
EXT DRO >C28-C36	222	10.0	11/19/2021	ND					

Surrogate: 1-Chlorooctane 84.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.3 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/18/2021	Sampling Date:	11/18/2021
Reported:	11/19/2021	Sampling Type:	Soil
Project Name:	VGFU 01-02 SATELLITE 1,2	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	LEA CO NM		

Sample ID: FS - 21 - 1 (5') (H213320-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2021	ND	2.06	103	2.00	0.531	
Toluene*	<0.050	0.050	11/19/2021	ND	1.95	97.3	2.00	0.251	
Ethylbenzene*	<0.050	0.050	11/19/2021	ND	1.92	95.9	2.00	0.200	
Total Xylenes*	<0.150	0.150	11/19/2021	ND	5.84	97.4	6.00	0.720	
Total BTX	<0.300	0.300	11/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	11/19/2021	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	11/19/2021	ND	191	95.6	200	6.50	
DRO >C10-C28*	295	10.0	11/19/2021	ND	216	108	200	5.29	
EXT DRO >C28-C36	214	10.0	11/19/2021	ND					

Surrogate: 1-Chlorooctane 92.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 106 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

KUSH

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech Project Manager: Christina Hull Address: 901 W. Wall St Ste 100 City: Midland State: TX Zip: 79701 Phone #: 512 565 0190 Fax #: Project #: 212C-MO-02099 Project Owner: Tetra Tech Project Name: VGETU 01-02 Satellite 1,2 Project Location: Lea County NM Sample Name: John Throckmorton FOR LAB USE ONLY										BILL TO P.O. #: Company: Tetra Tech Attn: Christina Hull Address: City: State: Zip: Phone #: Fax #:										ANALYSIS REQUEST																			
Lab I.D. H213320 Sample I.D. SW-21-1 (2) FS-21-1 (5)										Matrix <input type="checkbox"/> RAB OR (C)OMP. <input type="checkbox"/> CONTAINERS <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER: <input type="checkbox"/> ACID/BASE: <input type="checkbox"/> ICE / COOL <input type="checkbox"/> OTHER:										DATE 11/14/21 TIME 1300 DATE 11/14/21 TIME 1305										ANALYSIS REQUEST Chloride 300 BTEX 8021 B TPH 8015 M									
Relinquished By: John Throckmorton Date: 11/14/21 Received By: [Signature] Relinquished By: [Signature] Date: 11/14/21 Received By: [Signature]										Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address:										REMARKS:																			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:										Observed Temp. °C 6.2 Corrected Temp. °C 5.7 Sample Condition <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: [Signature]										Turnaround Time: Thermometer ID #113 Correction Factor -0.5°C Standard <input checked="" type="checkbox"/> Bacteria (only) <input type="checkbox"/> Cool Intact <input checked="" type="checkbox"/> Observed Temp. °C Corrected Temp. °C																			



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

November 23, 2021

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: VGFU 01-02

Enclosed are the results of analyses for samples received by the laboratory on 11/22/21 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/22/2021
 Reported: 11/23/2021
 Project Name: VGFU 01-02
 Project Number: 212C-MD-02099.991
 Project Location: COP - LEA CO NM

Sampling Date: 11/22/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 21 - 1 (4') (H213356-01)

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	11/22/2021	ND	2.04	102	2.00	3.68	
Toluene*	<0.050	0.050	11/22/2021	ND	1.93	96.7	2.00	4.29	
Ethylbenzene*	<0.050	0.050	11/22/2021	ND	1.91	95.3	2.00	4.29	
Total Xylenes*	<0.150	0.150	11/22/2021	ND	5.83	97.2	6.00	4.24	
Total BTEX	<0.300	0.300	11/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/23/2021	ND	416	104	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	11/22/2021	ND	229	115	200	1.97	
DRO >C10-C28*	25.8	10.0	11/22/2021	ND	231	116	200	6.86	
EXT DRO >C28-C36	21.8	10.0	11/22/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 107 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

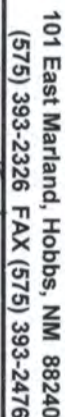
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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

**BILL TO**

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

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

December 06, 2021

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU SATELLITE 1-2 TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 12/03/21 10:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS - 21 - 2	H213474-01	Soil	02-Dec-21 09:00	03-Dec-21 10:45
FS - 21 - 3	H213474-02	Soil	02-Dec-21 09:05	03-Dec-21 10:45
FS - 21 - 4	H213474-03	Soil	02-Dec-21 09:10	03-Dec-21 10:45
FS - 21 - 5	H213474-04	Soil	02-Dec-21 09:15	03-Dec-21 10:45
FS - 21 - 6	H213474-05	Soil	02-Dec-21 09:20	03-Dec-21 10:45
FS - 21 - 7	H213474-06	Soil	02-Dec-21 09:25	03-Dec-21 10:45
FS - 21 - 8	H213474-07	Soil	02-Dec-21 09:30	03-Dec-21 10:45
FS - 21 - 9	H213474-08	Soil	02-Dec-21 09:35	03-Dec-21 10:45
FS - 21 - 10	H213474-09	Soil	02-Dec-21 09:40	03-Dec-21 10:45
FS - 21 - 11	H213474-10	Soil	02-Dec-21 09:45	03-Dec-21 10:45
FS - 21 - 13	H213474-11	Soil	02-Dec-21 09:50	03-Dec-21 10:45
FS - 21 - 14	H213474-12	Soil	02-Dec-21 09:55	03-Dec-21 10:45
FS - 21 - 15	H213474-13	Soil	02-Dec-21 10:00	03-Dec-21 10:45
FS - 21 - 16	H213474-14	Soil	02-Dec-21 10:05	03-Dec-21 10:45
FS - 21 - 17	H213474-15	Soil	02-Dec-21 10:10	03-Dec-21 10:45
FS - 21 - 18	H213474-16	Soil	02-Dec-21 10:15	03-Dec-21 10:45
FS - 21 - 19	H213474-17	Soil	02-Dec-21 10:20	03-Dec-21 10:45
FS - 21 - 20	H213474-18	Soil	02-Dec-21 10:25	03-Dec-21 10:45
FS - 21 - 21	H213474-19	Soil	02-Dec-21 10:30	03-Dec-21 10:45
FS - 21 - 12	H213474-20	Soil	02-Dec-21 10:35	03-Dec-21 10:45
FS - 21 - 22	H213474-21	Soil	02-Dec-21 10:40	03-Dec-21 10:45
FS - 21 - 23	H213474-22	Soil	02-Dec-21 10:45	03-Dec-21 10:45
NSW - 21 - 1	H213474-23	Soil	02-Dec-21 10:50	03-Dec-21 10:45
NSW - 21 - 2	H213474-24	Soil	02-Dec-21 10:55	03-Dec-21 10:45
NSW - 21 - 3	H213474-25	Soil	02-Dec-21 11:00	03-Dec-21 10:45
ESW - 21 - 1	H213474-26	Soil	02-Dec-21 11:05	03-Dec-21 10:45
ESW - 21 - 2	H213474-27	Soil	02-Dec-21 11:10	03-Dec-21 10:45

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

ESW - 21 - 3	H213474-28	Soil	02-Dec-21 11:15	03-Dec-21 10:45
ESW - 21 - 4	H213474-29	Soil	02-Dec-21 11:20	03-Dec-21 10:45
ESW - 21 - 5	H213474-30	Soil	02-Dec-21 11:25	03-Dec-21 10:45
ESW - 21 - 6	H213474-31	Soil	02-Dec-21 11:30	03-Dec-21 10:45
ESW - 21 - 7	H213474-32	Soil	02-Dec-21 11:35	03-Dec-21 10:45
ESW - 21 - 8	H213474-33	Soil	02-Dec-21 11:40	03-Dec-21 10:45
SSW - 21 - 1	H213474-34	Soil	02-Dec-21 11:45	03-Dec-21 10:45
WSW - 21 - 2	H213474-35	Soil	02-Dec-21 11:50	03-Dec-21 10:45
WSW - 21 - 3	H213474-36	Soil	02-Dec-21 11:55	03-Dec-21 10:45
WSW - 21 - 4	H213474-37	Soil	02-Dec-21 12:00	03-Dec-21 10:45
WSW - 21 - 5	H213474-38	Soil	02-Dec-21 12:05	03-Dec-21 10:45
WSW - 21 - 6	H213474-39	Soil	02-Dec-21 12:10	03-Dec-21 10:45
WSW - 21 - 7	H213474-40	Soil	02-Dec-21 12:15	03-Dec-21 10:45
WSW - 21 - 8	H213474-41	Soil	02-Dec-21 12:20	03-Dec-21 10:45
WSW - 21 - 9	H213474-42	Soil	02-Dec-21 12:25	03-Dec-21 10:45
WSW - 21 - 10	H213474-43	Soil	02-Dec-21 12:30	03-Dec-21 10:45

12/06/21 - Project name was changed as per the client. This is the revised report and will replace the one sent earlier 12/06/21.

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 2
H213474-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.9-140 1120314 MS/ 03-Dec-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	

Surrogate: 1-Chlorooctane 111 % 44.3-133 1120310 MS 03-Dec-21 8015B

Surrogate: 1-Chlorooctadecane 116 % 38.9-142 1120310 MS 03-Dec-21 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 3
H213474-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.5 %		69.9-140	1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			112 %		44.3-133	1120310	MS	03-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			110 %		38.9-142	1120310	MS	03-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 4**H213474-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.1 %		69.9-140	1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	

Surrogate: 1-Chlorooctane			110 %		44.3-133	1120310	MS	03-Dec-21	8015B	
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Surrogate: 1-Chlorooctadecane			110 %		38.9-142	1120310	MS	03-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 5
H213474-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			96.4 %		69.9-140	1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			115 %		44.3-133	1120310	MS	03-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			115 %		38.9-142	1120310	MS	03-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 6
H213474-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.5 %		69.9-140	1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			107 %		44.3-133	1120310	MS	03-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			110 %		38.9-142	1120310	MS	03-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 7
H213474-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.9 %		69.9-140	1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			116 %		44.3-133	1120310	MS	03-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			121 %		38.9-142	1120310	MS	03-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 8
H213474-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.7 %		69.9-140	1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			93.1 %		44.3-133	1120310	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			101 %		38.9-142	1120310	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 9
H213474-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.7 %		69.9-140	1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			117 %		44.3-133	1120310	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			117 %		38.9-142	1120310	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 10
H213474-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.4 %		69.9-140	1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			120 %		44.3-133	1120310	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			121 %		38.9-142	1120310	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 11
H213474-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140 1120314 MS/ 03-Dec-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

Surrogate: 1-Chlorooctane 107 % 44.3-133 1120310 MS 04-Dec-21 8015B

Surrogate: 1-Chlorooctadecane 108 % 38.9-142 1120310 MS 04-Dec-21 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 13
H213474-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	112		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.0 %		69.9-140	1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			103 %		44.3-133	1120310	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			106 %		38.9-142	1120310	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 14
H213474-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>		94.2 %		69.9-140	1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>		108 %		44.3-133	1120310	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>		114 %		38.9-142	1120310	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 15
H213474-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			93.6 %		69.9-140	1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			110 %		44.3-133	1120310	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			114 %		38.9-142	1120310	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 16
H213474-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.7 %		69.9-140	1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			109 %		44.3-133	1120310	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			112 %		38.9-142	1120310	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 17
H213474-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	224		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.8 %		69.9-140	1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			105 %		44.3-133	1120310	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			107 %		38.9-142	1120310	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 18
H213474-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 69.9-140 1120314 MS/ 03-Dec-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

Surrogate: 1-Chlorooctane 116 % 44.3-133 1120310 MS 04-Dec-21 8015B

Surrogate: 1-Chlorooctadecane 117 % 38.9-142 1120310 MS 04-Dec-21 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 19
H213474-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.3 %	69.9-140		1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			91.1 %	44.3-133		1120310	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			98.8 %	38.9-142		1120310	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 20
H213474-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	112		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	QR-03
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 69.9-140 1120314 MS/ 03-Dec-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

Surrogate: 1-Chlorooctane 115 % 44.3-133 1120310 MS 04-Dec-21 8015B

Surrogate: 1-Chlorooctadecane 131 % 38.9-142 1120310 MS 04-Dec-21 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 21
H213474-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140 1120314 MS/ 03-Dec-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

Surrogate: 1-Chlorooctane 114 % 44.3-133 1120310 MS 04-Dec-21 8015B

Surrogate: 1-Chlorooctadecane 134 % 38.9-142 1120310 MS 04-Dec-21 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 12
H213474-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.2 %		69.9-140	1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			107 %		44.3-133	1120310	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			122 %		38.9-142	1120310	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 22
H213474-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	QR-03
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	QR-03
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	QR-03
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	QR-03
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 69.9-140 1120315 MS/ 03-Dec-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	

Surrogate: 1-Chlorooctane 89.1 % 44.3-133 1120311 MS 03-Dec-21 8015B

Surrogate: 1-Chlorooctadecane 84.9 % 38.9-142 1120311 MS 03-Dec-21 8015B

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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 23
H213474-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.2 %		69.9-140	1120315	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			82.9 %		44.3-133	1120311	MS	03-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			78.9 %		38.9-142	1120311	MS	03-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

NSW - 21 - 1
H213474-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	208		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.9 %		69.9-140	1120315	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			80.6 %		44.3-133	1120311	MS	03-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			77.1 %		38.9-142	1120311	MS	03-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

NSW - 21 - 2
H213474-24 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.6 %		69.9-140	1120315	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			87.0 %		44.3-133	1120311	MS	03-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			81.8 %		38.9-142	1120311	MS	03-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

NSW - 21 - 3
H213474-25 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.9 %		69.9-140	1120315	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			89.4 %		44.3-133	1120311	MS	03-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			86.6 %		38.9-142	1120311	MS	03-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

ESW - 21 - 1
H213474-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 69.9-140 1120315 MS/ 03-Dec-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	

Surrogate: 1-Chlorooctane 99.7 % 44.3-133 1120311 MS 03-Dec-21 8015B

Surrogate: 1-Chlorooctadecane 95.5 % 38.9-142 1120311 MS 03-Dec-21 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

ESW - 21 - 2
H213474-27 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	112		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.2 %		69.9-140	1120315	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			98.4 %		44.3-133	1120311	MS	03-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			94.6 %		38.9-142	1120311	MS	03-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

ESW - 21 - 3
H213474-28 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.2 %		69.9-140	1120315	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			92.6 %		44.3-133	1120311	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			89.1 %		38.9-142	1120311	MS	04-Dec-21	8015B	
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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

ESW - 21 - 4
H213474-29 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 69.9-140 1120315 MS/ 03-Dec-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	

Surrogate: 1-Chlorooctane 81.1 % 44.3-133 1120311 MS 04-Dec-21 8015B

Surrogate: 1-Chlorooctadecane 78.0 % 38.9-142 1120311 MS 04-Dec-21 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

ESW - 21 - 5
H213474-30 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.2 %		69.9-140	1120315	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.5 %		44.3-133	1120311	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			88.0 %		38.9-142	1120311	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

ESW - 21 - 6
H213474-31 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.6 %		69.9-140	1120315	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			83.2 %		44.3-133	1120311	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			80.2 %		38.9-142	1120311	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

ESW - 21 - 7
H213474-32 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.4 %		69.9-140	1120315	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			120 %		44.3-133	1120311	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			116 %		38.9-142	1120311	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

ESW - 21 - 8
H213474-33 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.4 %		69.9-140	1120315	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			95.2 %		44.3-133	1120311	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			90.9 %		38.9-142	1120311	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

SSW - 21 - 1
H213474-34 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.2 %		69.9-140	1120315	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			87.1 %		44.3-133	1120311	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			85.8 %		38.9-142	1120311	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

WSW - 21 - 2
H213474-35 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.5 %		69.9-140	1120315	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.8 %		44.3-133	1120311	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			86.0 %		38.9-142	1120311	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

WSW - 21 - 3
H213474-36 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	144		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	04-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.5 %		69.9-140	1120315	MS/	04-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			73.0 %		44.3-133	1120311	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			69.9 %		38.9-142	1120311	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

WSW - 21 - 4
H213474-37 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	112		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	04-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.3 %		69.9-140	1120315	MS/	04-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			74.5 %		44.3-133	1120311	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			71.4 %		38.9-142	1120311	MS	04-Dec-21	8015B	
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

WSW - 21 - 5
H213474-38 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	1120327	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	04-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.2 %		69.9-140	1120315	MS/	04-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			111 %		44.3-133	1120311	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			110 %		38.9-142	1120311	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

WSW - 21 - 6
H213474-39 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	1120327	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	04-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.2 %		69.9-140	1120315	MS/	04-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	

Surrogate: 1-Chlorooctane			94.9 %		44.3-133	1120311	MS	04-Dec-21	8015B	
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Surrogate: 1-Chlorooctadecane			92.0 %		38.9-142	1120311	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

WSW - 21 - 7
H213474-40 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	144		16.0	mg/kg	4	1120327	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	04-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.5 %		69.9-140	1120315	MS/	04-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			83.9 %		44.3-133	1120311	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			81.4 %		38.9-142	1120311	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

WSW - 21 - 8
H213474-41 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	1120327	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120313	MS/	04-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120313	MS/	04-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120313	MS/	04-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120313	MS/	04-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120313	MS/	04-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.6 %		69.9-140	1120313	MS/	04-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120309	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120309	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120309	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			74.9 %		44.3-133	1120309	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			70.2 %		38.9-142	1120309	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

WSW - 21 - 9
H213474-42 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	1120327	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120313	MS/	04-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120313	MS/	04-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120313	MS/	04-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120313	MS/	04-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120313	MS/	04-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.2 %		69.9-140	1120313	MS/	04-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120309	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120309	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120309	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			124 %		44.3-133	1120309	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			117 %		38.9-142	1120309	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

WSW - 21 - 10**H213474-43 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	1120327	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120313	MS/	04-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120313	MS/	04-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120313	MS/	04-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120313	MS/	04-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120313	MS/	04-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.0 %		69.9-140	1120313	MS/	04-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120309	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120309	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120309	MS	04-Dec-21	8015B	

Surrogate: 1-Chlorooctane			78.2 %		44.3-133	1120309	MS	04-Dec-21	8015B	
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Surrogate: 1-Chlorooctadecane			74.1 %		38.9-142	1120309	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1120322 - 1:4 DI Water**Blank (1120322-BLK1)**

Prepared & Analyzed: 03-Dec-21

Chloride	ND	16.0	mg/kg
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LCS (1120322-BS1)

Prepared & Analyzed: 03-Dec-21

Chloride	432	16.0	mg/kg	400	108	80-120
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LCS Dup (1120322-BSD1)

Prepared & Analyzed: 03-Dec-21

Chloride	432	16.0	mg/kg	400	108	80-120	0.00	20
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Batch 1120325 - 1:4 DI Water**Blank (1120325-BLK1)**

Prepared & Analyzed: 03-Dec-21

Chloride	ND	16.0	mg/kg
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LCS (1120325-BS1)

Prepared & Analyzed: 03-Dec-21

Chloride	416	16.0	mg/kg	400	104	80-120
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LCS Dup (1120325-BSD1)

Prepared & Analyzed: 03-Dec-21

Chloride	416	16.0	mg/kg	400	104	80-120	0.00	20
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Batch 1120327 - 1:4 DI Water**Blank (1120327-BLK1)**

Prepared & Analyzed: 03-Dec-21

Chloride	ND	16.0	mg/kg
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LCS (1120327-BS1)

Prepared & Analyzed: 03-Dec-21

Chloride	432	16.0	mg/kg	400	108	80-120
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1120327 - 1:4 DI Water**LCS Dup (1120327-BSD1)**

Prepared & Analyzed: 03-Dec-21

Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1120313 - Volatiles**Blank (1120313-BLK1)**

Prepared: 03-Dec-21 Analyzed: 04-Dec-21

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		93.3	69.9-140			

LCS (1120313-BS1)

Prepared: 03-Dec-21 Analyzed: 04-Dec-21

Benzene	2.11	0.050	mg/kg	2.00		105	85.1-114			
Toluene	2.06	0.050	mg/kg	2.00		103	88.6-116			
Ethylbenzene	2.02	0.050	mg/kg	2.00		101	84.4-115			
m,p-Xylene	4.16	0.100	mg/kg	4.00		104	85.5-116			
o-Xylene	1.96	0.050	mg/kg	2.00		98.2	85.2-111			
Total Xylenes	6.12	0.150	mg/kg	6.00		102	86.2-113			
Surrogate: 4-Bromofluorobenzene (PID)	0.0460		mg/kg	0.0500		92.1	69.9-140			

LCS Dup (1120313-BSD1)

Prepared: 03-Dec-21 Analyzed: 04-Dec-21

Benzene	2.10	0.050	mg/kg	2.00		105	85.1-114	0.603	12.6	
Toluene	2.05	0.050	mg/kg	2.00		102	88.6-116	0.585	13.3	
Ethylbenzene	2.02	0.050	mg/kg	2.00		101	84.4-115	0.118	13.9	
m,p-Xylene	4.15	0.100	mg/kg	4.00		104	85.5-116	0.0551	13.6	
o-Xylene	1.97	0.050	mg/kg	2.00		98.4	85.2-111	0.140	14.1	
Total Xylenes	6.12	0.150	mg/kg	6.00		102	86.2-113	0.00774	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0466		mg/kg	0.0500		93.2	69.9-140			

Batch 1120314 - Volatiles**Blank (1120314-BLK1)**

Prepared & Analyzed: 03-Dec-21

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1120314 - Volatiles**Blank (1120314-BLK1)**

Prepared & Analyzed: 03-Dec-21

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		95.4	69.9-140			

LCS (1120314-BS1)

Prepared & Analyzed: 03-Dec-21

Benzene	1.87	0.050	mg/kg	2.00		93.3	85.1-114			
Toluene	1.84	0.050	mg/kg	2.00		92.0	88.6-116			
Ethylbenzene	1.83	0.050	mg/kg	2.00		91.5	84.4-115			
m,p-Xylene	3.82	0.100	mg/kg	4.00		95.5	85.5-116			
o-Xylene	1.84	0.050	mg/kg	2.00		91.9	85.2-111			
Total Xylenes	5.66	0.150	mg/kg	6.00		94.3	86.2-113			
Surrogate: 4-Bromofluorobenzene (PID)	0.0459		mg/kg	0.0500		91.7	69.9-140			

LCS Dup (1120314-BS1)

Prepared & Analyzed: 03-Dec-21

Benzene	2.08	0.050	mg/kg	2.00		104	85.1-114	10.9	12.6	
Toluene	2.03	0.050	mg/kg	2.00		102	88.6-116	10.0	13.3	
Ethylbenzene	2.01	0.050	mg/kg	2.00		100	84.4-115	9.13	13.9	
m,p-Xylene	4.12	0.100	mg/kg	4.00		103	85.5-116	7.54	13.6	
o-Xylene	1.95	0.050	mg/kg	2.00		97.4	85.2-111	5.76	14.1	
Total Xylenes	6.07	0.150	mg/kg	6.00		101	86.2-113	6.96	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0461		mg/kg	0.0500		92.2	69.9-140			

Batch 1120315 - Volatiles**Blank (1120315-BLK1)**

Prepared & Analyzed: 03-Dec-21

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		95.4	69.9-140			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 1120315 - Volatiles**LCS (1120315-BS1)**

Prepared & Analyzed: 03-Dec-21

Benzene	1.86	0.050	mg/kg	2.00		93.0	85.1-114		
Toluene	1.83	0.050	mg/kg	2.00		91.6	88.6-116		
Ethylbenzene	1.84	0.050	mg/kg	2.00		91.8	84.4-115		
m,p-Xylene	3.82	0.100	mg/kg	4.00		95.6	85.5-116		
o-Xylene	1.84	0.050	mg/kg	2.00		92.1	85.2-111		
Total Xylenes	5.66	0.150	mg/kg	6.00		94.4	86.2-113		
Surrogate: 4-Bromofluorobenzene (PID)	0.0470		mg/kg	0.0500		94.0	69.9-140		

LCS Dup (1120315-BS1)

Prepared & Analyzed: 03-Dec-21

Benzene	2.05	0.050	mg/kg	2.00		102	85.1-114	9.53	12.6
Toluene	2.00	0.050	mg/kg	2.00		99.8	88.6-116	8.58	13.3
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.3	84.4-115	7.79	13.9
m,p-Xylene	4.09	0.100	mg/kg	4.00		102	85.5-116	6.64	13.6
o-Xylene	1.96	0.050	mg/kg	2.00		98.2	85.2-111	6.45	14.1
Total Xylenes	6.05	0.150	mg/kg	6.00		101	86.2-113	6.58	13.4
Surrogate: 4-Bromofluorobenzene (PID)	0.0458		mg/kg	0.0500		91.6	69.9-140		

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 1120309 - General Prep - Organics**Blank (1120309-BLK1)**

Prepared: 03-Dec-21 Analyzed: 04-Dec-21

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	63.5		mg/kg	50.0		127	44.3-133		
Surrogate: 1-Chlorooctadecane	60.6		mg/kg	50.0		121	38.9-142		

LCS (1120309-BS1)

Prepared: 03-Dec-21 Analyzed: 04-Dec-21

GRO C6-C10	218	10.0	mg/kg	200		109	83.4-129		
DRO >C10-C28	209	10.0	mg/kg	200		104	79.3-136		
Total TPH C6-C28	427	10.0	mg/kg	400		107	85.3-130		
Surrogate: 1-Chlorooctane	46.9		mg/kg	50.0		93.7	44.3-133		
Surrogate: 1-Chlorooctadecane	45.8		mg/kg	50.0		91.5	38.9-142		

LCS Dup (1120309-BS1)

Prepared: 03-Dec-21 Analyzed: 04-Dec-21

GRO C6-C10	216	10.0	mg/kg	200		108	83.4-129	1.28	12.6
DRO >C10-C28	207	10.0	mg/kg	200		104	79.3-136	0.646	12.1
Total TPH C6-C28	423	10.0	mg/kg	400		106	85.3-130	0.968	11.6
Surrogate: 1-Chlorooctane	47.4		mg/kg	50.0		94.8	44.3-133		
Surrogate: 1-Chlorooctadecane	45.9		mg/kg	50.0		91.8	38.9-142		

Batch 1120310 - General Prep - Organics**Blank (1120310-BLK1)**

Prepared & Analyzed: 03-Dec-21

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	56.1		mg/kg	50.0		112	44.3-133		
Surrogate: 1-Chlorooctadecane	57.6		mg/kg	50.0		115	38.9-142		

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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1120310 - General Prep - Organics**LCS (1120310-BS1)**

Prepared & Analyzed: 03-Dec-21

GRO C6-C10	228	10.0	mg/kg	200		114	83.4-129			
DRO >C10-C28	230	10.0	mg/kg	200		115	79.3-136			
Total TPH C6-C28	459	10.0	mg/kg	400		115	85.3-130			
Surrogate: 1-Chlorooctane	56.5		mg/kg	50.0		113	44.3-133			
Surrogate: 1-Chlorooctadecane	58.7		mg/kg	50.0		117	38.9-142			

LCS Dup (1120310-BS1)

Prepared & Analyzed: 03-Dec-21

GRO C6-C10	226	10.0	mg/kg	200		113	83.4-129	0.892	12.6	
DRO >C10-C28	229	10.0	mg/kg	200		115	79.3-136	0.485	12.1	
Total TPH C6-C28	455	10.0	mg/kg	400		114	85.3-130	0.687	11.6	
Surrogate: 1-Chlorooctane	56.3		mg/kg	50.0		113	44.3-133			
Surrogate: 1-Chlorooctadecane	58.3		mg/kg	50.0		117	38.9-142			

Batch 1120311 - General Prep - Organics**Blank (1120311-BLK1)**

Prepared & Analyzed: 03-Dec-21

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	50.7		mg/kg	50.0		101	44.3-133			
Surrogate: 1-Chlorooctadecane	51.4		mg/kg	50.0		103	38.9-142			

LCS (1120311-BS1)

Prepared & Analyzed: 03-Dec-21

GRO C6-C10	217	10.0	mg/kg	200		109	83.4-129			
DRO >C10-C28	233	10.0	mg/kg	200		117	79.3-136			
Total TPH C6-C28	450	10.0	mg/kg	400		113	85.3-130			
Surrogate: 1-Chlorooctane	54.9		mg/kg	50.0		110	44.3-133			
Surrogate: 1-Chlorooctadecane	55.7		mg/kg	50.0		111	38.9-142			

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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1120311 - General Prep - Organics**LCS Dup (1120311-BSD1)**

Prepared & Analyzed: 03-Dec-21

GRO C6-C10	197	10.0	mg/kg	200		98.6	83.4-129	9.58	12.6	
DRO >C10-C28	203	10.0	mg/kg	200		102	79.3-136	13.7	12.1	QR-04
Total TPH C6-C28	400	10.0	mg/kg	400		100	85.3-130	11.7	11.6	QR-04
Surrogate: 1-Chlorooctane	50.7		mg/kg	50.0		101	44.3-133			
Surrogate: 1-Chlorooctadecane	51.4		mg/kg	50.0		103	38.9-142			

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



Rush 24 Hour TAT

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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

Company Name: Tetra Tech Project Manager: Christian.Llull@tetratech.com Address: 901 W. WASH ST STE 100 City: Midland State: TX Zip: 79701 Phone #: 512-565-0190 Fax #: Project #: 212C-MD-02099-991 Project Owner: Tetra Tech Project Name: *KGET-01-02 EVGSAU Safe II: 1/2 Trunkline Project Location: Lea County, NM Sampler Name: Thurston, John				P.O. #: Company: Tetra Tech Attn: Christian Llull Address: City: State: Zip: Phone #: Fax #:			
BILL TO				ANALYSIS REQUEST			
FOR LAB USE ONLY Lab I.D. H213474		Sample I.D. FS-21-2 FS-21-3 FS-21-4 FS-21-5 FS-21-6 FS-21-7 FS-21-8 FS-21-9 FS-21-10 FS-21-11		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		MATRIX PRESERV SAMPLING	
Date: 12/3/21 Time: 1045 Date: Time:		Received By: <i>[Signature]</i> Date: 12/3/21 Time: 1045 Date: Time:		DATE 12/3/21 12/3/21 12/3/21 12/3/21 12/3/21 12/3/21 12/3/21 12/3/21 12/3/21 12/3/21		TIME 0900 0905 0910 0915 0920 0925 0930 0935 0940 0945	
Relinquished By: John Thurston Relinquished By:		Date: 12/3/21 Time: 1045 Date: Time:		Received By: <i>[Signature]</i> Date: 12/3/21 Time: 1045 Date: Time:		PHONE RESULT: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Add'l Phone #: Add'l Fax #:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: <i>[Signature]</i> (Initials)		REMARKS: * Project name changed as per Christian. 12/6/21	



Rush 24 TAT

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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

Company Name: Tetra Tech		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Christian Lulu @tetratech.com		Company: Tetra Tech					
Address: 901 W. Wall St Ste 100		Attn: Christian Lulu					
City: Midland		Address:					
Phone #: 512-515-0190 Fax #:		City:					
Project #: 212CMB-02099-911 Project Owner: Tetra Tech		State:					
Project Name: VEET OT-02 EVGSAU Satellite 1/2		Zip:					
Project Location: Lea County, NM		Phone #:					
Sampler Name: Thurston, John		Fax #:					
FOR LAB USE ONLY		PRESERV		SAMPLING			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	DATE	TIME	
H23474							
11	FS-21-13	X	1	GROUNDWATER	12/2/21	0950	X TPH 8015 M
12	FS-21-14	X	1	WASTEWATER		0955	X BTEX 8021 B
13	FS-21-15	X	1	SOIL		1000	X Chlorides 300
14	FS-21-16	X	1	OIL		1005	
15	FS-21-17	X	1	SLUDGE		1010	
16	FS-21-18	X	1	OTHER :		1015	
17	FS-21-19	X	1	ACID/BASE:		1020	
18	FS-21-20	X	1	ICE / COOL		1025	
19	FS-21-21	X	1	OTHER :		1030	
20	FS-21-22	X	1			1035	
Relinquished By: John Thurston		Date: 12/2/21		Received By: Scott Menden		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Relinquished By:		Date:		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Delivered By: (Circle One) 4.92		Time: 1:45		Sample Condition		CHECKED BY: (initials)	
Sampler - UPS - Bus - Other: -1.5		Time:		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>			
4.46 #113				Yes <input type="checkbox"/> No <input type="checkbox"/>			
† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326							



Rush 24 Hr TAT

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tetra Tech Project Manager: Christen Lundy @ Tetratech.com Address: 901 W. Wall St Ste. 100 City: Midland, State: TX Zip: 79701 Phone #: 512-565-0190 Fax #: Project #: 212C-MD02097-991 Project Owner: Project Name: Water at 02 EYGSA Satellite 1/2 Project Location: Lea County, NM Trunkline Sample Name: John Thurston				P.O. #: Company: Tetra Tech Attn: Christen Lundy Address: City: State: Zip:			
FOR LAB USE ONLY				BILL TO			
Lab I.D. Sample I.D.		Matrix (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		Preserv DATE TIME		SAMPLING TPH 8015 M BTEX 8021B Chloride 300	
H213414 21 22 23 24 25 26 27 28 29 30		FS-21-22 FS-21-23 NSW-21-1 NSW-21-2 NSW-21-3 ESW-21-1 ESW-21-2 ESW-21-3 ESW-21-4 ESW-21-5		12/21/21 1040 1045 1050 1055 1100 1105 1110 1115 1120		X X X X X X X X X	
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Relinquished By: John Thurston Relinquished By:		Date: 12/31/21 Time: 1245 Received By: <i>Christen Lundy</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:		REMARKS:	
Delivered By: (Circle One) 4.92 Sampler - UPS - Bus - Other: 4.42		Sample Condition Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <i>Christen Lundy</i>		ANALYSIS REQUEST	



24 Hours Rush TAT

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tetra Tech Project Manager: Christian Luby @ Tetra Tech.com Address: 901 W. Main St Ste 100 City: Midland, TX State: TX zip: 79701 Phone #: 512-565-0190 Fax #: Project #: 212C-MD-0209-991 Project Owner: Tetra Tech Project Name: Green at 02 EVGSA Satellite 1/2 Project Location: Lea County, NM Trunkline Sampler Name: John Thurston				P.O. #: Company: Tetra Tech Attn: Christian Luby Address: City: State: Zip: Phone #: Fax #:					
BILL TO				ANALYSIS REQUEST					
FOR LAB USE ONLY		Lab I.D.		Sample I.D.					
		(G) GRAB OR (C) OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :		MATRIX PRESERV SAMPLING		DATE		TIME	
H213474		ESW-21-6		G 1		12/2/21		1130	
331		ESW-21-7		G 1		12/2/21		1135	
333		ESW-21-8		G 1		12/2/21		1140	
334		SSW-21-1		G 1		12/2/21		1145	
335		WSW-21-2		G 1		12/2/21		1150	
337		WSW-21-3		G 1		12/2/21		1155	
338		WSW-21-4		G 1		12/2/21		1200	
339		WSW-21-5		G 1		12/2/21		1205	
340		WSW-21-6		G 1		12/2/21		1210	
340		WSW-21-7		G 1		12/2/21		1215	
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Relinquished By: John Thurston Date: 12/3/21 Time: 1245				Received By: [Signature] Date: 12/3/21 Time: 1245					
Relinquished By: Date: Time:				Received By: Date: Time:					
Delivered By: (Circle One) 492 Sampler - UPS - Bus - Other: -15		Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: [Signature] (Initials)					
REMARKS: TPL 8015 M BTEX 8021 B Chloride 300									
Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:									



Rush 29 hr TAY

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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

December 22, 2021

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: VGEU 2801-02 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 12/17/21 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 1 (H213651-01)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2021	ND	1.97	98.7	2.00	8.75	
Toluene*	<0.050	0.050	12/18/2021	ND	1.96	98.2	2.00	9.13	
Ethylbenzene*	<0.050	0.050	12/18/2021	ND	1.95	97.6	2.00	8.88	
Total Xylenes*	<0.150	0.150	12/18/2021	ND	6.01	100	6.00	9.64	
Total BTX	<0.300	0.300	12/18/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4800	16.0	12/20/2021	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	12/17/2021	ND	224	112	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/17/2021	ND	231	116	200	6.51	
EXT DRO >C28-C36	<10.0	10.0	12/17/2021	ND					

Surrogate: 1-Chlorooctane 87.4 % 62-130

Surrogate: 1-Chlorooctadecane 91.6 % 54.5-135

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 2 (H213651-02)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/18/2021	ND	1.97	98.7	2.00	8.75		
Toluene*	<0.050	0.050	12/18/2021	ND	1.96	98.2	2.00	9.13		
Ethylbenzene*	<0.050	0.050	12/18/2021	ND	1.95	97.6	2.00	8.88		
Total Xylenes*	<0.150	0.150	12/18/2021	ND	6.01	100	6.00	9.64		
Total BTX	<0.300	0.300	12/18/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5760	16.0	12/20/2021	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	12/17/2021	ND	224	112	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/17/2021	ND	231	116	200	6.51	
EXT DRO >C28-C36	<10.0	10.0	12/17/2021	ND					

Surrogate: 1-Chlorooctane 92.5 % 62-130

Surrogate: 1-Chlorooctadecane 95.6 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 3 (H213651-03)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/18/2021	ND	1.97	98.7	2.00	8.75		
Toluene*	<0.050	0.050	12/18/2021	ND	1.96	98.2	2.00	9.13		
Ethylbenzene*	<0.050	0.050	12/18/2021	ND	1.95	97.6	2.00	8.88		
Total Xylenes*	<0.150	0.150	12/18/2021	ND	6.01	100	6.00	9.64		
Total BTX	<0.300	0.300	12/18/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4960	16.0	12/20/2021	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	12/17/2021	ND	224	112	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/17/2021	ND	231	116	200	6.51	
EXT DRO >C28-C36	<10.0	10.0	12/17/2021	ND					

Surrogate: 1-Chlorooctane 87.1 % 62-130

Surrogate: 1-Chlorooctadecane 90.5 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 4 (H213651-04)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/18/2021	ND	1.97	98.7	2.00	8.75		
Toluene*	<0.050	0.050	12/18/2021	ND	1.96	98.2	2.00	9.13		
Ethylbenzene*	<0.050	0.050	12/18/2021	ND	1.95	97.6	2.00	8.88		
Total Xylenes*	<0.150	0.150	12/18/2021	ND	6.01	100	6.00	9.64		
Total BTX	<0.300	0.300	12/18/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5440	16.0	12/20/2021	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	12/17/2021	ND	224	112	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/17/2021	ND	231	116	200	6.51	
EXT DRO >C28-C36	<10.0	10.0	12/17/2021	ND					

Surrogate: 1-Chlorooctane 86.7 % 62-130

Surrogate: 1-Chlorooctadecane 90.0 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 5 (H213651-05)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/18/2021	ND	1.97	98.7	2.00	8.75		
Toluene*	<0.050	0.050	12/18/2021	ND	1.96	98.2	2.00	9.13		
Ethylbenzene*	<0.050	0.050	12/18/2021	ND	1.95	97.6	2.00	8.88		
Total Xylenes*	<0.150	0.150	12/18/2021	ND	6.01	100	6.00	9.64		
Total BTX	<0.300	0.300	12/18/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7260	16.0	12/20/2021	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	12/17/2021	ND	224	112	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/17/2021	ND	231	116	200	6.51	
EXT DRO >C28-C36	<10.0	10.0	12/17/2021	ND					

Surrogate: 1-Chlorooctane 84.3 % 62-130

Surrogate: 1-Chlorooctadecane 86.8 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 6 (H213651-06)

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	12/18/2021	ND	1.97	98.7	2.00	8.75		
Toluene*	<0.050	0.050	12/18/2021	ND	1.96	98.2	2.00	9.13		
Ethylbenzene*	<0.050	0.050	12/18/2021	ND	1.95	97.6	2.00	8.88		
Total Xylenes*	<0.150	0.150	12/18/2021	ND	6.01	100	6.00	9.64		
Total BTEX	<0.300	0.300	12/18/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11200	16.0	12/20/2021	ND	416	104	400	3.92	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	12/17/2021	ND	224	112	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/17/2021	ND	231	116	200	6.51	
EXT DRO >C28-C36	<10.0	10.0	12/17/2021	ND					

Surrogate: 1-Chlorooctane 93.4 % 62-130

Surrogate: 1-Chlorooctadecane 96.4 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: SSW - 6 (H213651-07)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/18/2021	ND	1.97	98.7	2.00	8.75		
Toluene*	<0.050	0.050	12/18/2021	ND	1.96	98.2	2.00	9.13		
Ethylbenzene*	<0.050	0.050	12/18/2021	ND	1.95	97.6	2.00	8.88		
Total Xylenes*	<0.150	0.150	12/18/2021	ND	6.01	100	6.00	9.64		
Total BTX	<0.300	0.300	12/18/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	12/20/2021	ND	416	104	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	12/17/2021	ND	224	112	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/17/2021	ND	231	116	200	6.51	
EXT DRO >C28-C36	<10.0	10.0	12/17/2021	ND					

Surrogate: 1-Chlorooctane 83.6 % 62-130

Surrogate: 1-Chlorooctadecane 87.6 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: SSW - 11 (H213651-08)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/18/2021	ND	1.97	98.7	2.00	8.75		
Toluene*	<0.050	0.050	12/18/2021	ND	1.96	98.2	2.00	9.13		
Ethylbenzene*	<0.050	0.050	12/18/2021	ND	1.95	97.6	2.00	8.88		
Total Xylenes*	<0.150	0.150	12/18/2021	ND	6.01	100	6.00	9.64		
Total BTX	<0.300	0.300	12/18/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/20/2021	ND	416	104	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	12/17/2021	ND	224	112	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/17/2021	ND	231	116	200	6.51	
EXT DRO >C28-C36	<10.0	10.0	12/17/2021	ND					

Surrogate: 1-Chlorooctane 82.8 % 62-130

Surrogate: 1-Chlorooctadecane 86.5 % 54.5-135

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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: SSW - 12 (H213651-09)

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	12/20/2021	ND	1.80	89.8	2.00	4.91	QR-03
Toluene*	<0.050	0.050	12/20/2021	ND	1.79	89.4	2.00	5.05	QR-03
Ethylbenzene*	<0.050	0.050	12/20/2021	ND	1.78	88.9	2.00	4.61	QR-03
Total Xylenes*	<0.150	0.150	12/20/2021	ND	5.39	89.8	6.00	5.42	
Total BTEX	<0.300	0.300	12/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5600	16.0	12/20/2021	ND	416	104	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	12/17/2021	ND	224	112	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/17/2021	ND	231	116	200	6.51	
EXT DRO >C28-C36	<10.0	10.0	12/17/2021	ND					

Surrogate: 1-Chlorooctane 75.7 % 62-130

Surrogate: 1-Chlorooctadecane 77.5 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: SSW - 13 (H213651-10)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2021	ND	1.80	89.8	2.00	4.91		
Toluene*	<0.050	0.050	12/20/2021	ND	1.79	89.4	2.00	5.05		
Ethylbenzene*	<0.050	0.050	12/20/2021	ND	1.78	88.9	2.00	4.61		
Total Xylenes*	<0.150	0.150	12/20/2021	ND	5.39	89.8	6.00	5.42		
Total BTX	<0.300	0.300	12/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/20/2021	ND	416	104	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	12/17/2021	ND	224	112	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/17/2021	ND	231	116	200	6.51	
EXT DRO >C28-C36	<10.0	10.0	12/17/2021	ND					

Surrogate: 1-Chlorooctane 87.3 % 62-130

Surrogate: 1-Chlorooctadecane 89.3 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 79 (H213651-11)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2021	ND	1.80	89.8	2.00	4.91		
Toluene*	<0.050	0.050	12/20/2021	ND	1.79	89.4	2.00	5.05		
Ethylbenzene*	<0.050	0.050	12/20/2021	ND	1.78	88.9	2.00	4.61		
Total Xylenes*	<0.150	0.150	12/20/2021	ND	5.39	89.8	6.00	5.42		
Total BTEX	<0.300	0.300	12/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	12/20/2021	ND	416	104	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	12/17/2021	ND	224	112	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/17/2021	ND	231	116	200	6.51	
EXT DRO >C28-C36	<10.0	10.0	12/17/2021	ND					

Surrogate: 1-Chlorooctane 88.2 % 62-130

Surrogate: 1-Chlorooctadecane 92.1 % 54.5-135

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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 78 (H213651-12)

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	12/20/2021	ND	1.80	89.8	2.00	4.91		
Toluene*	<0.050	0.050	12/20/2021	ND	1.79	89.4	2.00	5.05		
Ethylbenzene*	<0.050	0.050	12/20/2021	ND	1.78	88.9	2.00	4.61		
Total Xylenes*	<0.150	0.150	12/20/2021	ND	5.39	89.8	6.00	5.42		
Total BTEX	<0.300	0.300	12/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1920	16.0	12/20/2021	ND	416	104	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	12/20/2021	ND	186	93.1	200	2.65	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	200	100	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 87.1 % 62-130

Surrogate: 1-Chlorooctadecane 86.7 % 54.5-135

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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 77 (H213651-13)

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	12/20/2021	ND	1.80	89.8	2.00	4.91		
Toluene*	0.055	0.050	12/20/2021	ND	1.79	89.4	2.00	5.05		
Ethylbenzene*	<0.050	0.050	12/20/2021	ND	1.78	88.9	2.00	4.61		
Total Xylenes*	<0.150	0.150	12/20/2021	ND	5.39	89.8	6.00	5.42		
Total BTEx	<0.300	0.300	12/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	12/20/2021	ND	416	104	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	12/20/2021	ND	218	109	200	4.98	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	213	106	200	6.35	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 92.3 % 62-130

Surrogate: 1-Chlorooctadecane 93.1 % 54.5-135

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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 76 (H213651-14)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2021	ND	1.80	89.8	2.00	4.91		
Toluene*	0.100	0.050	12/20/2021	ND	1.79	89.4	2.00	5.05		
Ethylbenzene*	<0.050	0.050	12/20/2021	ND	1.78	88.9	2.00	4.61		
Total Xylenes*	<0.150	0.150	12/20/2021	ND	5.39	89.8	6.00	5.42		
Total BTX	<0.300	0.300	12/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2720	16.0	12/20/2021	ND	416	104	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	12/20/2021	ND	218	109	200	4.98	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	213	106	200	6.35	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 90.9 % 62-130

Surrogate: 1-Chlorooctadecane 90.9 % 54.5-135

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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 75 (H213651-15)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2021	ND	1.80	89.8	2.00	4.91		
Toluene*	0.051	0.050	12/20/2021	ND	1.79	89.4	2.00	5.05		
Ethylbenzene*	<0.050	0.050	12/20/2021	ND	1.78	88.9	2.00	4.61		
Total Xylenes*	<0.150	0.150	12/20/2021	ND	5.39	89.8	6.00	5.42		
Total BTX	<0.300	0.300	12/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4560	16.0	12/20/2021	ND	416	104	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	12/20/2021	ND	218	109	200	4.98	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	213	106	200	6.35	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 79.6 % 62-130

Surrogate: 1-Chlorooctadecane 78.7 % 54.5-135

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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 74 (H213651-16)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2021	ND	1.80	89.8	2.00	4.91		
Toluene*	<0.050	0.050	12/20/2021	ND	1.79	89.4	2.00	5.05		
Ethylbenzene*	<0.050	0.050	12/20/2021	ND	1.78	88.9	2.00	4.61		
Total Xylenes*	<0.150	0.150	12/20/2021	ND	5.39	89.8	6.00	5.42		
Total BTEX	<0.300	0.300	12/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5760	16.0	12/20/2021	ND	416	104	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	12/20/2021	ND	218	109	200	4.98	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	213	106	200	6.35	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 90.4 % 62-130

Surrogate: 1-Chlorooctadecane 90.8 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 73 (H213651-17)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2021	ND	1.80	89.8	2.00	4.91		
Toluene*	<0.050	0.050	12/20/2021	ND	1.79	89.4	2.00	5.05		
Ethylbenzene*	<0.050	0.050	12/20/2021	ND	1.78	88.9	2.00	4.61		
Total Xylenes*	<0.150	0.150	12/20/2021	ND	5.39	89.8	6.00	5.42		
Total BTEX	<0.300	0.300	12/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4240	16.0	12/20/2021	ND	416	104	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	12/20/2021	ND	218	109	200	4.98	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	213	106	200	6.35	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 85.8 % 62-130

Surrogate: 1-Chlorooctadecane 85.4 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 72 (H213651-18)

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	12/20/2021	ND	1.80	89.8	2.00	4.91		
Toluene*	<0.050	0.050	12/20/2021	ND	1.79	89.4	2.00	5.05		
Ethylbenzene*	<0.050	0.050	12/20/2021	ND	1.78	88.9	2.00	4.61		
Total Xylenes*	<0.150	0.150	12/20/2021	ND	5.39	89.8	6.00	5.42		
Total BTEX	<0.300	0.300	12/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4480	16.0	12/20/2021	ND	416	104	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	12/20/2021	ND	218	109	200	4.98	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	213	106	200	6.35	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 96.1 % 62-130

Surrogate: 1-Chlorooctadecane 97.6 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 71 (H213651-19)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2021	ND	1.80	89.8	2.00	4.91		
Toluene*	<0.050	0.050	12/20/2021	ND	1.79	89.4	2.00	5.05		
Ethylbenzene*	<0.050	0.050	12/20/2021	ND	1.78	88.9	2.00	4.61		
Total Xylenes*	<0.150	0.150	12/20/2021	ND	5.39	89.8	6.00	5.42		
Total BTEX	<0.300	0.300	12/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	12/20/2021	ND	416	104	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	12/20/2021	ND	218	109	200	4.98	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	213	106	200	6.35	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 88.6 % 62-130

Surrogate: 1-Chlorooctadecane 87.6 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 70 (H213651-20)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2021	ND	1.80	89.8	2.00	4.91		
Toluene*	<0.050	0.050	12/20/2021	ND	1.79	89.4	2.00	5.05		
Ethylbenzene*	<0.050	0.050	12/20/2021	ND	1.78	88.9	2.00	4.61		
Total Xylenes*	<0.150	0.150	12/20/2021	ND	5.39	89.8	6.00	5.42		
Total BTX	<0.300	0.300	12/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3800	16.0	12/20/2021	ND	416	104	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	12/20/2021	ND	218	109	200	4.98	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	213	106	200	6.35	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 82.2 % 62-130

Surrogate: 1-Chlorooctadecane 81.7 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 69 (H213651-21)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2021	ND	1.80	89.8	2.00	4.91		
Toluene*	<0.050	0.050	12/20/2021	ND	1.79	89.4	2.00	5.05		
Ethylbenzene*	<0.050	0.050	12/20/2021	ND	1.78	88.9	2.00	4.61		
Total Xylenes*	<0.150	0.150	12/20/2021	ND	5.39	89.8	6.00	5.42		
Total BTEX	<0.300	0.300	12/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9200	16.0	12/20/2021	ND	416	104	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	12/20/2021	ND	218	109	200	4.98	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	213	106	200	6.35	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 85.0 % 62-130

Surrogate: 1-Chlorooctadecane 85.1 % 54.5-135

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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 68 (H213651-22)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2021	ND	1.80	89.8	2.00	4.91		
Toluene*	<0.050	0.050	12/20/2021	ND	1.79	89.4	2.00	5.05		
Ethylbenzene*	<0.050	0.050	12/20/2021	ND	1.78	88.9	2.00	4.61		
Total Xylenes*	<0.150	0.150	12/20/2021	ND	5.39	89.8	6.00	5.42		
Total BTEX	<0.300	0.300	12/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3520	16.0	12/20/2021	ND	416	104	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	12/20/2021	ND	218	109	200	4.98	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	213	106	200	6.35	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 88.7 % 62-130

Surrogate: 1-Chlorooctadecane 88.1 % 54.5-135

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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 67 (H213651-23)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2021	ND	1.80	89.8	2.00	4.91		
Toluene*	<0.050	0.050	12/20/2021	ND	1.79	89.4	2.00	5.05		
Ethylbenzene*	<0.050	0.050	12/20/2021	ND	1.78	88.9	2.00	4.61		
Total Xylenes*	<0.150	0.150	12/20/2021	ND	5.39	89.8	6.00	5.42		
Total BTEx	<0.300	0.300	12/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	12/20/2021	ND	416	104	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	12/20/2021	ND	218	109	200	4.98	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	213	106	200	6.35	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 81.4 % 62-130

Surrogate: 1-Chlorooctadecane 83.9 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 66 (H213651-24)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2021	ND	1.80	89.8	2.00	4.91		
Toluene*	<0.050	0.050	12/20/2021	ND	1.79	89.4	2.00	5.05		
Ethylbenzene*	<0.050	0.050	12/20/2021	ND	1.78	88.9	2.00	4.61		
Total Xylenes*	<0.150	0.150	12/20/2021	ND	5.39	89.8	6.00	5.42		
Total BTX	<0.300	0.300	12/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5040	16.0	12/20/2021	ND	416	104	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	12/20/2021	ND	218	109	200	4.98	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	213	106	200	6.35	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 79.2 % 62-130

Surrogate: 1-Chlorooctadecane 81.1 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 65 (H213651-25)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2021	ND	1.80	89.8	2.00	4.91		
Toluene*	<0.050	0.050	12/20/2021	ND	1.79	89.4	2.00	5.05		
Ethylbenzene*	<0.050	0.050	12/20/2021	ND	1.78	88.9	2.00	4.61		
Total Xylenes*	<0.150	0.150	12/20/2021	ND	5.39	89.8	6.00	5.42		
Total BTEX	<0.300	0.300	12/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	12/20/2021	ND	416	104	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	12/20/2021	ND	218	109	200	4.98	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	213	106	200	6.35	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 79.2 % 62-130

Surrogate: 1-Chlorooctadecane 78.5 % 54.5-135

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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 64 (H213651-26)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/21/2021	ND	2.06	103	2.00	6.03		
Toluene*	<0.050	0.050	12/21/2021	ND	1.97	98.4	2.00	7.17		
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.98	98.9	2.00	6.58		
Total Xylenes*	<0.150	0.150	12/21/2021	ND	6.15	102	6.00	6.75		
Total BTEx	<0.300	0.300	12/21/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/20/2021	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	12/20/2021	ND	218	109	200	4.98	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	213	106	200	6.35	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 80.9 % 62-130

Surrogate: 1-Chlorooctadecane 81.1 % 54.5-135

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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 63 (H213651-27)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/21/2021	ND	2.06	103	2.00	6.03		
Toluene*	<0.050	0.050	12/21/2021	ND	1.97	98.4	2.00	7.17		
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.98	98.9	2.00	6.58		
Total Xylenes*	<0.150	0.150	12/21/2021	ND	6.15	102	6.00	6.75		
Total BTEx	<0.300	0.300	12/21/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	12/20/2021	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	12/20/2021	ND	218	109	200	4.98	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	213	106	200	6.35	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 82.8 % 62-130

Surrogate: 1-Chlorooctadecane 86.7 % 54.5-135

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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 62 (H213651-28)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2021	ND	2.06	103	2.00	6.03	
Toluene*	0.073	0.050	12/21/2021	ND	1.97	98.4	2.00	7.17	
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.98	98.9	2.00	6.58	
Total Xylenes*	<0.150	0.150	12/21/2021	ND	6.15	102	6.00	6.75	
Total BTX	<0.300	0.300	12/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	12/20/2021	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	12/20/2021	ND	218	109	200	4.98	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	213	106	200	6.35	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 87.8 % 62-130

Surrogate: 1-Chlorooctadecane 90.4 % 54.5-135

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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 61 (H213651-29)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/21/2021	ND	2.06	103	2.00	6.03		
Toluene*	<0.050	0.050	12/21/2021	ND	1.97	98.4	2.00	7.17		
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.98	98.9	2.00	6.58		
Total Xylenes*	<0.150	0.150	12/21/2021	ND	6.15	102	6.00	6.75		
Total BTEx	<0.300	0.300	12/21/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3680	16.0	12/20/2021	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	12/20/2021	ND	218	109	200	4.98	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	213	106	200	6.35	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 88.0 % 62-130

Surrogate: 1-Chlorooctadecane 89.5 % 54.5-135

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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 60 (H213651-30)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/21/2021	ND	2.06	103	2.00	6.03		
Toluene*	<0.050	0.050	12/21/2021	ND	1.97	98.4	2.00	7.17		
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.98	98.9	2.00	6.58		
Total Xylenes*	<0.150	0.150	12/21/2021	ND	6.15	102	6.00	6.75		
Total BTEx	<0.300	0.300	12/21/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	12/20/2021	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	12/20/2021	ND	186	93.1	200	2.65	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	200	100	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 80.5 % 62-130

Surrogate: 1-Chlorooctadecane 82.3 % 54.5-135

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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 57 (H213651-31)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/21/2021	ND	2.06	103	2.00	6.03		
Toluene*	<0.050	0.050	12/21/2021	ND	1.97	98.4	2.00	7.17		
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.98	98.9	2.00	6.58		
Total Xylenes*	<0.150	0.150	12/21/2021	ND	6.15	102	6.00	6.75		
Total BTEx	<0.300	0.300	12/21/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5120	16.0	12/20/2021	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	12/20/2021	ND	186	93.1	200	2.65	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	200	100	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 87.5 % 62-130

Surrogate: 1-Chlorooctadecane 88.6 % 54.5-135

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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 56 (H213651-32)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/21/2021	ND	2.06	103	2.00	6.03		
Toluene*	<0.050	0.050	12/21/2021	ND	1.97	98.4	2.00	7.17		
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.98	98.9	2.00	6.58		
Total Xylenes*	<0.150	0.150	12/21/2021	ND	6.15	102	6.00	6.75		
Total BTEx	<0.300	0.300	12/21/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	12/20/2021	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	12/20/2021	ND	186	93.1	200	2.65	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	200	100	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 81.8 % 62-130

Surrogate: 1-Chlorooctadecane 82.6 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 53 (H213651-33)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/21/2021	ND	2.06	103	2.00	6.03		
Toluene*	<0.050	0.050	12/21/2021	ND	1.97	98.4	2.00	7.17		
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.98	98.9	2.00	6.58		
Total Xylenes*	<0.150	0.150	12/21/2021	ND	6.15	102	6.00	6.75		
Total BTEx	<0.300	0.300	12/21/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5280	16.0	12/20/2021	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	12/20/2021	ND	186	93.1	200	2.65	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	200	100	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 78.9 % 62-130

Surrogate: 1-Chlorooctadecane 80.4 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 52 (H213651-34)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/21/2021	ND	2.06	103	2.00	6.03		
Toluene*	<0.050	0.050	12/21/2021	ND	1.97	98.4	2.00	7.17		
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.98	98.9	2.00	6.58		
Total Xylenes*	<0.150	0.150	12/21/2021	ND	6.15	102	6.00	6.75		
Total BTEx	<0.300	0.300	12/21/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5440	16.0	12/20/2021	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	12/20/2021	ND	186	93.1	200	2.65	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	200	100	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 81.1 % 62-130

Surrogate: 1-Chlorooctadecane 83.4 % 54.5-135

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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 51 (H213651-35)

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	12/21/2021	ND	1.81	90.3	2.00	7.47	QM-07	
Toluene*	<0.050	0.050	12/21/2021	ND	1.85	92.5	2.00	10.8		
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.92	95.8	2.00	11.2		
Total Xylenes*	<0.150	0.150	12/21/2021	ND	6.02	100	6.00	11.0		
Total BTEx	<0.300	0.300	12/21/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4560	16.0	12/20/2021	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	12/20/2021	ND	186	93.1	200	2.65	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	200	100	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 82.7 % 62-130

Surrogate: 1-Chlorooctadecane 82.0 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 50 (H213651-36)

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	12/21/2021	ND	1.81	90.3	2.00	7.47		
Toluene*	<0.050	0.050	12/21/2021	ND	1.85	92.5	2.00	10.8		
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.92	95.8	2.00	11.2		
Total Xylenes*	<0.150	0.150	12/21/2021	ND	6.02	100	6.00	11.0		
Total BTEx	<0.300	0.300	12/21/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	12/20/2021	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	12/20/2021	ND	186	93.1	200	2.65	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	200	100	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 80.6 % 62-130

Surrogate: 1-Chlorooctadecane 81.6 % 54.5-135

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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 49 (H213651-37)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/21/2021	ND	1.81	90.3	2.00	7.47		
Toluene*	<0.050	0.050	12/21/2021	ND	1.85	92.5	2.00	10.8		
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.92	95.8	2.00	11.2		
Total Xylenes*	<0.150	0.150	12/21/2021	ND	6.02	100	6.00	11.0		
Total BTEx	<0.300	0.300	12/21/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1800	16.0	12/20/2021	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	12/20/2021	ND	186	93.1	200	2.65	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	200	100	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 84.8 % 62-130

Surrogate: 1-Chlorooctadecane 85.9 % 54.5-135

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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 48 (H213651-38)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/21/2021	ND	1.81	90.3	2.00	7.47		
Toluene*	<0.050	0.050	12/21/2021	ND	1.85	92.5	2.00	10.8		
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.92	95.8	2.00	11.2		
Total Xylenes*	<0.150	0.150	12/21/2021	ND	6.02	100	6.00	11.0		
Total BTEx	<0.300	0.300	12/21/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1650	16.0	12/20/2021	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	12/20/2021	ND	186	93.1	200	2.65	
DRO >C10-C28*	120	10.0	12/20/2021	ND	200	100	200	2.68	
EXT DRO >C28-C36	85.7	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 91.3 % 62-130

Surrogate: 1-Chlorooctadecane 94.5 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/16/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: FS - 47 (H213651-39)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/21/2021	ND	1.81	90.3	2.00	7.47		
Toluene*	<0.050	0.050	12/21/2021	ND	1.85	92.5	2.00	10.8		
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.92	95.8	2.00	11.2		
Total Xylenes*	<0.150	0.150	12/21/2021	ND	6.02	100	6.00	11.0		
Total BTX	<0.300	0.300	12/21/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2120	16.0	12/20/2021	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	12/20/2021	ND	186	93.1	200	2.65	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	200	100	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 84.1 % 62-130

Surrogate: 1-Chlorooctadecane 85.3 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 01 of 01

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

BILL TO

ANALYSIS REQUEST

Company Name: <u>Coviera Phillips</u>		P.O. #:	
Project Manager: <u>Christina Lull</u>		Company: <u>Tetra Tech</u>	
Address: <u>Christina.Lull@tetra-tech.com</u>		Attn: <u>Christina Lull</u>	
City:	State: <u>TX</u> Zip:	Address: <u>by email</u>	
Phone #:	Fax #:	City:	State: <u>TX</u> Zip:
Project #: <u>212C-MD-02099</u>	Project Owner:	Phone #:	
Project Name: <u>VECU 2801-02 Flooding Release</u>		Fax #:	
Project Location: <u>Lea County, New Mexico</u>			
Sample Name: <u>Joe Tyler</u>			
FOR LAB USE ONLY #213651			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH	BTEX	Chlorides	Hold	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:							ACID/BASE:
1	ESUD-1	G	1			X					12-16-21	0940	X	X	X	
2	ESUD-2											1000				
3	ESUD-3											1010				
4	ESUD-4											1020				
5	ESUD-5											1030				
6	ESUD-6											1040				
7	SSUD-6											1050				
8	SSUD-11											1100				
9	SSUD-12											1110				
10	SSUD-12															

Relinquished By: <u>Joe Tyler</u>	Date: <u>12-17-21</u>	Time: <u>08:15</u>	Received By: <u>Yodi Hernandez</u>
Relinquished By:	Date:	Time:	Received By:
Delivered By: (Circle One) <u>UPS</u>	4.7	-5	4.25
Sampled - UPS - Bus - Other:	#113		
Sample Condition	Cool	Intact	CHECKED BY: <u>(initials)</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Phone Results: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:	Fax Results: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Email Results to: <u>Christina Lull</u>			



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 01 of 01

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

BILL TO

ANALYSIS REQUEST

Company Name: <u>Covaca Phillips</u>		P.O. #:
Project Manager: <u>Christian Hull</u>		Company: <u>Tetra Tech</u>
Address: <u>Christian Hull @ tetra.tech.com</u>		Attn: <u>Christian Hull</u>
City:	State:	Address: <u>by email</u>
Phone #:	Fax #:	City:
Project #:	Project Owner:	State:
Project Name: <u>WGLU 2801-02 Flashline Release</u>		Zip:
Project Location: <u>Lea County, New Mexico</u>		Phone #:
Sampler Name: <u>Joe Tyler</u>	Fax #:	

FOR LAB USE ONLY
A213651

Lab I.D. Sample I.D.

Sample Name: <u>Joe Tyler</u>		FOR LAB USE ONLY		H219651									
Lab I.D.	Sample I.D.												
21	FS-69	G	(G)RAB OR (C)OMP.	1	# CONTAINERS	MATRIX				PRESERV		SAMPLING	
22	FS-68					GROUNDWATER							
23	FS-67					WASTEWATER							
24	FS-66					SOIL							
25	FS-65					OIL							
26	FS-64					SLUDGE							
27	FS-63					OTHER :							
28	FS-62					ACID/BASE:							
29	FS-61					ICE / COOL							
30	FS-60					OTHER :							
						DATE	TIME	TPH	BTEX	Chlorides	Hold		
						12-16-21	1300	X	X	X			
							1310						
							1320						
							1330						
							1340						
							1350						
							1400						
							1410						
							1420						
							1430						

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Relinquished By: Joe Tyler

Date: 12-17-21

Received By: Shadi Munder

Relinquished By:

Date:

Received By:

Time:

Delivered By: (Circle One) 4.7 5 4.25

Sampler: UPS - Bus - Other: 1113

Sample Condition
Cool ☐ Intact ☐
Yes ☐ No ☐

CHECKED BY: [Signature]

Phone Results: ☐ Yes ☐ No ☐ Add'l Phone #:
Fax Results: ☐ Yes ☐ No ☐ Add'l Fax #:

Email Results to: Christian Hull



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 01 of 01

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

Company Name: Covaco Phillips

Project Manager: Christian Hull

Address: christian.hull@telia-tech.com

City: State: Zip:

Phone #: Fax #:

Project #: 212C-MD-02049 **Project Owner:**

Project Name: VCFU 2801-02 Fluorine Release

Project Location: Lea County, New Mexico

Sampler Name: Joe Tyler

FOR LAB USE ONLY

Lab I.D. **Sample I.D.**

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	TPH	BTEX	Chlorides	Hold
31	FS-57	G	1			X				X			12-16-21	1440	X	X	X	
32	FS-56													1450				
33	FS-53													1502				
34	FS-52													1510				
35	FS-51													1520				
36	FS-50													1530				
37	FS-49													1540				
38	FS-48													1550				
39	FS-47													1600				

P.O. #:

Company: Telia Tech

Attn: Christian Hull

Address: by email

City: State: Zip:

Phone #: Fax #:

Matrix: PRESERV. SAMPLING

Relinquished By: Joe Tyler

Date: 12-17-21

Received By: Scott Henderson

Date: 12-17-21

Time:

Delivered By: (Circle One) 4.7 - 5 4.20

Sampler: UPS - Bus - Other: #113

Sample Condition: Cool Intact Yes ☒ No ☐

CHECKED BY: (Signature)

Phone Results: Yes ☐ No ☐ Add'l Phone #:

Email Results to: Christian Hull

BILL TO

ANALYSIS REQUEST



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

December 28, 2021

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: VGEU 2801-02 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 12/22/21 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/22/2021	Sampling Date:	12/22/2021
Reported:	12/28/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 28 (H213699-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/23/2021	ND	2.00	100	2.00	3.20	QM-07, QR-03
Toluene*	<0.050	0.050	12/23/2021	ND	2.03	101	2.00	0.791	QR-03
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	2.07	104	2.00	1.35	QR-03
Total Xylenes*	<0.150	0.150	12/23/2021	ND	6.51	109	6.00	1.28	QR-03
Total BTX	<0.300	0.300	12/23/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3240	16.0	12/23/2021	ND	400	100	400	3.92	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	12/28/2021	ND	236	118	200	0.423	
DRO >C10-C28*	<10.0	10.0	12/28/2021	ND	259	130	200	2.85	
EXT DRO >C28-C36	<10.0	10.0	12/28/2021	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 130 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/22/2021	Sampling Date:	12/22/2021
Reported:	12/28/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 29 (H213699-02)

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	12/23/2021	ND	2.00	100	2.00	3.20	
Toluene*	<0.050	0.050	12/23/2021	ND	2.03	101	2.00	0.791	
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	2.07	104	2.00	1.35	
Total Xylenes*	<0.150	0.150	12/23/2021	ND	6.51	109	6.00	1.28	
Total BTEx	<0.300	0.300	12/23/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	12/23/2021	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	12/23/2021	ND	236	118	200	0.423	
DRO >C10-C28*	75.9	10.0	12/23/2021	ND	259	130	200	2.85	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 98.1 % 62-130

Surrogate: 1-Chlorooctadecane 98.5 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/22/2021	Sampling Date:	12/22/2021
Reported:	12/28/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 30 (H213699-03)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/23/2021	ND	2.09	104	2.00	3.72		
Toluene*	<0.050	0.050	12/23/2021	ND	2.01	101	2.00	3.20		
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	1.92	96.0	2.00	3.72		
Total Xylenes*	<0.150	0.150	12/23/2021	ND	5.83	97.2	6.00	3.85		
Total BTX	<0.300	0.300	12/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	12/23/2021	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	12/23/2021	ND	194	96.8	200	16.2	
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	212	106	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 96.3 % 62-130

Surrogate: 1-Chlorooctadecane 83.8 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/22/2021	Sampling Date:	12/22/2021
Reported:	12/28/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 31 (H213699-04)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/23/2021	ND	2.09	104	2.00	3.72		
Toluene*	<0.050	0.050	12/23/2021	ND	2.01	101	2.00	3.20		
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	1.92	96.0	2.00	3.72		
Total Xylenes*	<0.150	0.150	12/23/2021	ND	5.83	97.2	6.00	3.85		
Total BTX	<0.300	0.300	12/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3760	16.0	12/23/2021	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	12/23/2021	ND	194	96.8	200	16.2	
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	212	106	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 96.5 % 62-130

Surrogate: 1-Chlorooctadecane 84.2 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/22/2021	Sampling Date:	12/22/2021
Reported:	12/28/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 37 (H213699-05)

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	12/23/2021	ND	2.09	104	2.00	3.72		
Toluene*	<0.050	0.050	12/23/2021	ND	2.01	101	2.00	3.20		
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	1.92	96.0	2.00	3.72		
Total Xylenes*	<0.150	0.150	12/23/2021	ND	5.83	97.2	6.00	3.85		
Total BTEX	<0.300	0.300	12/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3240	16.0	12/23/2021	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	12/23/2021	ND	194	96.8	200	16.2	
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	212	106	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 98.9 % 62-130

Surrogate: 1-Chlorooctadecane 84.0 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/22/2021	Sampling Date:	12/22/2021
Reported:	12/28/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 39 (H213699-06)

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	12/23/2021	ND	2.09	104	2.00	3.72		
Toluene*	<0.050	0.050	12/23/2021	ND	2.01	101	2.00	3.20		
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	1.92	96.0	2.00	3.72		
Total Xylenes*	<0.150	0.150	12/23/2021	ND	5.83	97.2	6.00	3.85		
Total BTEX	<0.300	0.300	12/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	12/23/2021	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	12/23/2021	ND	194	96.8	200	16.2	
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	212	106	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 88.3 % 62-130

Surrogate: 1-Chlorooctadecane 75.5 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/22/2021	Sampling Date:	12/22/2021
Reported:	12/28/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 40 (H213699-07)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/23/2021	ND	2.09	104	2.00	3.72		
Toluene*	<0.050	0.050	12/23/2021	ND	2.01	101	2.00	3.20		
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	1.92	96.0	2.00	3.72		
Total Xylenes*	<0.150	0.150	12/23/2021	ND	5.83	97.2	6.00	3.85		
Total BTX	<0.300	0.300	12/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1620	16.0	12/23/2021	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	12/23/2021	ND	194	96.8	200	16.2	
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	212	106	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 90.7 % 62-130

Surrogate: 1-Chlorooctadecane 77.4 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/22/2021	Sampling Date:	12/22/2021
Reported:	12/28/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 41 (H213699-08)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/23/2021	ND	2.13	107	2.00	4.98		
Toluene*	<0.050	0.050	12/23/2021	ND	2.02	101	2.00	5.41		
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	1.99	99.4	2.00	5.32		
Total Xylenes*	<0.150	0.150	12/23/2021	ND	6.17	103	6.00	5.59		
Total BTX	<0.300	0.300	12/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/23/2021	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	12/23/2021	ND	194	96.8	200	16.2	
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	212	106	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 93.6 % 62-130

Surrogate: 1-Chlorooctadecane 80.3 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/22/2021	Sampling Date:	12/22/2021
Reported:	12/28/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 42 (H213699-09)

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	12/23/2021	ND	2.13	107	2.00	4.98		
Toluene*	<0.050	0.050	12/23/2021	ND	2.02	101	2.00	5.41		
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	1.99	99.4	2.00	5.32		
Total Xylenes*	<0.150	0.150	12/23/2021	ND	6.17	103	6.00	5.59		
Total BTEx	<0.300	0.300	12/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/23/2021	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	12/23/2021	ND	194	96.8	200	16.2	
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	212	106	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 95.8 % 62-130

Surrogate: 1-Chlorooctadecane 83.3 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/22/2021	Sampling Date:	12/22/2021
Reported:	12/28/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 43 (H213699-10)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/23/2021	ND	2.13	107	2.00	4.98	
Toluene*	<0.050	0.050	12/23/2021	ND	2.02	101	2.00	5.41	
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	1.99	99.4	2.00	5.32	
Total Xylenes*	<0.150	0.150	12/23/2021	ND	6.17	103	6.00	5.59	
Total BTX	<0.300	0.300	12/23/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1820	16.0	12/23/2021	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	12/23/2021	ND	194	96.8	200	16.2	
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	212	106	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 92.7 % 62-130

Surrogate: 1-Chlorooctadecane 78.9 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/22/2021	Sampling Date:	12/22/2021
Reported:	12/28/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 45 (H213699-11)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/23/2021	ND	2.13	107	2.00	4.98		
Toluene*	<0.050	0.050	12/23/2021	ND	2.02	101	2.00	5.41		
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	1.99	99.4	2.00	5.32		
Total Xylenes*	<0.150	0.150	12/23/2021	ND	6.17	103	6.00	5.59		
Total BTEx	<0.300	0.300	12/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1580	16.0	12/23/2021	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	12/23/2021	ND	194	96.8	200	16.2	
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	212	106	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 88.4 % 62-130

Surrogate: 1-Chlorooctadecane 77.6 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/22/2021	Sampling Date:	12/22/2021
Reported:	12/28/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 46 (H213699-12)

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	12/23/2021	ND	2.13	107	2.00	4.98		
Toluene*	<0.050	0.050	12/23/2021	ND	2.02	101	2.00	5.41		
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	1.99	99.4	2.00	5.32		
Total Xylenes*	<0.150	0.150	12/23/2021	ND	6.17	103	6.00	5.59		
Total BTEx	<0.300	0.300	12/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	12/23/2021	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	12/23/2021	ND	208	104	200	2.37	
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	219	109	200	3.58	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 93.3 % 62-130

Surrogate: 1-Chlorooctadecane 97.4 % 54.5-135

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 01 of 02

Company Name: <u>Cavero Phillips</u> Project Manager: <u>Christina Hull</u> Address: <u>Christina Hull @ tetra-tech.com</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: <u>NA</u> Project #: <u>212C-MD-03099</u> Project Owner: _____ Project Name: <u>VEU 2801-03 Flashing Release</u> Project Location: <u>Lea County, New Mexico</u> Sampler Name: <u>Joe Tyler</u> FOR LAB USE ONLY		P.O. #: _____ Company: <u>Tetra Tech</u> Attn: <u>Christina Hull</u> Address: <u>by email</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. Sample I.D.		BILL TO	
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Relinquished By: <u>Joe Tyler</u> Date: <u>12-22-21</u> Time: <u>1420</u> Received By: <u>Christina Hull</u> Date: _____ Time: _____		Delivered By: (Circle One) <u>22.8°C-0.5%</u> Sampler - UPS - Bus - Other: <u>22.3°C #113</u> Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> No <input type="checkbox"/> Yes CHECKED BY: <u>Joe</u> Phone Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Fax Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: _____ Email Results to: <u>Christina Hull</u>	
Lab I.D. Sample I.D.		Matrix GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: _____ ACID/BASE: _____ ICE / COOL: _____ OTHER: _____	
Lab I.D. Sample I.D.		DATE TIME	
Lab I.D. Sample I.D.		TPH BTEX Chlorides Hold	



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 02 of 02

Company Name: <u>Conoco Phillips</u> Project Manager: <u>Christina Hull</u> Address: <u>christina.hull@tetatech.com</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: NA Project #: <u>212C-MD-03099</u> Project Owner: _____ Project Name: <u>UGEL 2801-02 Future Release</u> Project Location: <u>Lea County, New Mexico</u> Sampler Name: <u>Steve Taylor</u> FOR LAB USE ONLY		P.O. #: _____ Company: <u>Tetra Tech</u> Attn: <u>Christina Hull</u> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. <u>212/3699</u> Sample I.D. <u>11</u> <u>ES-45</u> <u>12</u> <u>ES-46</u>		BILL TO ANALYSIS REQUEST	
Relinquished By: <u>Steve Taylor</u> Date: <u>11-22-21</u> Time: <u>1420</u> Received By: <u>Monica Alvarado</u> Date: _____ Time: _____		DELIVERED BY: (Circle One) <u>22.85 C-0.52</u> Sampler: <u>UPS</u> - Bus - Other: _____ Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: (Initials) <u>YB</u>	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		Phone Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Fax Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: _____ Email Results to: <u>Christina Hull</u>	
Matrix: (G)RAB OR (C)OMP. _____ # CONTAINERS _____ GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ ICE / COOL _____ OTHER: _____		SAMPLING: DATE TIME <u>11-22-21</u> <u>1300</u> <u>11-22-21</u> <u>1400</u>	
TPH <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> Chlorides <input checked="" type="checkbox"/> Hold _____		ANALYSIS REQUEST	



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

January 04, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: VGEU 2801-02 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 12/29/21 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Celey D. Keene
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 1 (4') (H213748-01)

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	12/30/2021	ND	2.00	99.9	2.00	6.40	
Toluene*	<0.050	0.050	12/30/2021	ND	2.05	103	2.00	4.44	
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	2.07	104	2.00	4.53	
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.48	108	6.00	4.77	
Total BTEX	<0.300	0.300	12/30/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/30/2021	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	12/30/2021	ND	165	82.5	200	26.2	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	204	102	200	10.6	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					

Surrogate: 1-Chlorooctane 89.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.6 % 59.5-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Celey D. Keene
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 2 (4') (H213748-02)

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	12/30/2021	ND	2.00	99.9	2.00	6.40		
Toluene*	<0.050	0.050	12/30/2021	ND	2.05	103	2.00	4.44		
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	2.07	104	2.00	4.53		
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.48	108	6.00	4.77		
Total BTEx	<0.300	0.300	12/30/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/30/2021	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	12/30/2021	ND	165	82.5	200	26.2	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	204	102	200	10.6	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					

Surrogate: 1-Chlorooctane 91.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.3 % 59.5-142

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Analytical Results For:

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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Celey D. Keene
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 3 (4') (H213748-03)

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	12/30/2021	ND	2.00	99.9	2.00	6.40		
Toluene*	<0.050	0.050	12/30/2021	ND	2.05	103	2.00	4.44		
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	2.07	104	2.00	4.53		
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.48	108	6.00	4.77		
Total BTEx	<0.300	0.300	12/30/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/30/2021	ND	432	108	400	3.64		

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	01/03/2022	ND	165	82.5	200	26.2	
DRO >C10-C28*	<10.0	10.0	01/03/2022	ND	204	102	200	10.6	
EXT DRO >C28-C36	<10.0	10.0	01/03/2022	ND					

Surrogate: 1-Chlorooctane 67.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 59.2 % 59.5-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Celey D. Keene
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 4 (4') (H213748-04)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/30/2021	ND	2.00	99.9	2.00	6.40		
Toluene*	<0.050	0.050	12/30/2021	ND	2.05	103	2.00	4.44		
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	2.07	104	2.00	4.53		
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.48	108	6.00	4.77		
Total BTX	<0.300	0.300	12/30/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/30/2021	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	12/30/2021	ND	191	95.6	200	1.56	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	204	102	200	0.231	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					

Surrogate: 1-Chlorooctane 89.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.3 % 59.5-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Celey D. Keene
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 5 (4') (H213748-05)

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	12/30/2021	ND	2.09	104	2.00	1.03		
Toluene*	<0.050	0.050	12/30/2021	ND	2.00	100	2.00	1.79		
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	1.97	98.3	2.00	0.564		
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.01	100	6.00	0.111		
Total BTEX	<0.300	0.300	12/30/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/30/2021	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	12/30/2021	ND	191	95.6	200	1.56	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	204	102	200	0.231	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					

Surrogate: 1-Chlorooctane 99.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.5 % 59.5-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Celey D. Keene
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 6 (4') (H213748-06)

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	12/30/2021	ND	2.09	104	2.00	1.03	
Toluene*	<0.050	0.050	12/30/2021	ND	2.00	100	2.00	1.79	
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	1.97	98.3	2.00	0.564	
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.01	100	6.00	0.111	
Total BTEx	<0.300	0.300	12/30/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	12/30/2021	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	12/30/2021	ND	191	95.6	200	1.56	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	204	102	200	0.231	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					

Surrogate: 1-Chlorooctane 97.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.8 % 59.5-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Celey D. Keene
Project Location:	COP - LEA CO NM		

Sample ID: NSW - 13 (4') (H213748-07)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2021	ND	2.09	104	2.00	1.03	
Toluene*	<0.050	0.050	12/30/2021	ND	2.00	100	2.00	1.79	
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	1.97	98.3	2.00	0.564	
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.01	100	6.00	0.111	
Total BTX	<0.300	0.300	12/30/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/30/2021	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	12/30/2021	ND	191	95.6	200	1.56	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	204	102	200	0.231	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					

Surrogate: 1-Chlorooctane 91.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.1 % 59.5-142

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Analytical Results For:

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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Celey D. Keene
Project Location:	COP - LEA CO NM		

Sample ID: NSW - 14 (4') (H213748-08)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2021	ND	2.09	104	2.00	1.03	
Toluene*	<0.050	0.050	12/30/2021	ND	2.00	100	2.00	1.79	
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	1.97	98.3	2.00	0.564	
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.01	100	6.00	0.111	
Total BTX	<0.300	0.300	12/30/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/30/2021	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	12/30/2021	ND	191	95.6	200	1.56	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	204	102	200	0.231	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					

Surrogate: 1-Chlorooctane 97.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.0 % 59.5-142

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Analytical Results For:

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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Celey D. Keene
Project Location:	COP - LEA CO NM		

Sample ID: NSW - 15 (4') (H213748-09)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2021	ND	2.09	104	2.00	1.03	
Toluene*	<0.050	0.050	12/30/2021	ND	2.00	100	2.00	1.79	
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	1.97	98.3	2.00	0.564	
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.01	100	6.00	0.111	
Total BTX	<0.300	0.300	12/30/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/30/2021	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	12/30/2021	ND	191	95.6	200	1.56	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	204	102	200	0.231	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					

Surrogate: 1-Chlorooctane 90.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.7 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Celey D. Keene
Project Location:	COP - LEA CO NM		

Sample ID: NSW - 16 (4') (H213748-10)

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	12/30/2021	ND	2.09	104	2.00	1.03		
Toluene*	<0.050	0.050	12/30/2021	ND	2.00	100	2.00	1.79		
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	1.97	98.3	2.00	0.564		
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.01	100	6.00	0.111		
Total BTEX	<0.300	0.300	12/30/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 69.9-140

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	12/30/2021	ND	432	108	400	3.64		

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	01/03/2022	ND	191	95.6	200	1.56	
DRO >C10-C28*	<10.0	10.0	01/03/2022	ND	204	102	200	0.231	
EXT DRO >C28-C36	<10.0	10.0	01/03/2022	ND					

Surrogate: 1-Chlorooctane 66.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 63.7 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 01 of 01

Company Name: <u>Coraco Phillips</u>		P.O. #:		BILL TO							
Project Manager: <u>Christina Hull</u>		Company: <u>Tetra Tech</u>		ANALYSIS REQUEST							
Address: <u>christina.hull@tetra-tech.com</u>		Attn: <u>Christina Hull</u>									
City: _____		Address: <u>by email</u>									
State: _____		City: _____									
Phone #: _____		State: _____									
Fax #: NA		Zip: _____									
Project #: <u>213C-MD-0309</u>		Project Owner: _____									
Project Name: <u>WGEU 2001-03 Finalize Release</u>		City: _____									
Project Location: <u>Lee County, New Mexico</u>		State: _____									
Sample Name: <u>Sta Tyler</u>		Phone #: _____									
Fax #: _____		Zip: _____									

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH	BTEX	Chlorides	Hold	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
<u>H213748</u>	<u>ESL-1 (4')</u>	<u>G</u>	<u>1</u>			<u>X</u>				<u>X</u>	<u>13-29-21</u>	<u>1100</u>	<u>X</u>	<u>X</u>	<u>X</u>	
	<u>ESL-2 (4')</u>											<u>1130</u>				
	<u>ESL-3 (4')</u>											<u>1140</u>				
	<u>ESL-4 (4')</u>											<u>1200</u>				
	<u>ESL-5 (4')</u>											<u>1330</u>				
	<u>ESL-6 (4')</u>											<u>1340</u>				
	<u>NSL-13 (4')</u>											<u>1300</u>				
	<u>NSL-14 (4')</u>											<u>1330</u>				
	<u>NSL-15 (4')</u>											<u>1340</u>				
	<u>NSL-16 (4')</u>											<u>1400</u>				

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

Relinquished By: <u>Joe Tyler</u>	Date: <u>12-29-2021</u>	Received By: <u>Christina Hull</u>	Date: <u>12-29-2021</u>
Time: <u>15:30</u>		Time: _____	

Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)
<input checked="" type="radio"/> UPS - Bus <input type="radio"/> Other: _____	<input type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Phone Results: ☐ Yes ☐ No ☐ Add'l Phone #:

Fax Results: ☐ Yes ☐ No ☐ Add'l Fax #:

Email Results to: Christina Hull

Call #113 * taken & brought directly to lab. CD



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

January 13, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: VGEU 2801-02 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/12/22 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/12/2022	Sampling Date:	01/12/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 6 (6') (H220123-01)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2022	ND	2.04	102	2.00	5.24	
Toluene*	<0.050	0.050	01/12/2022	ND	1.97	98.5	2.00	6.27	
Ethylbenzene*	<0.050	0.050	01/12/2022	ND	1.92	96.1	2.00	6.14	
Total Xylenes*	<0.150	0.150	01/12/2022	ND	5.88	98.0	6.00	5.69	
Total BTX	<0.300	0.300	01/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12000	16.0	01/13/2022	ND	416	104	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	01/13/2022	ND	196	97.8	200	0.476	
DRO >C10-C28*	<10.0	10.0	01/13/2022	ND	197	98.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	01/13/2022	ND					

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/12/2022	Sampling Date:	01/12/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 8 (6') (H220123-02)

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	01/12/2022	ND	2.04	102	2.00	5.24		
Toluene*	<0.050	0.050	01/12/2022	ND	1.97	98.5	2.00	6.27		
Ethylbenzene*	<0.050	0.050	01/12/2022	ND	1.92	96.1	2.00	6.14		
Total Xylenes*	<0.150	0.150	01/12/2022	ND	5.88	98.0	6.00	5.69		
Total BTEx	<0.300	0.300	01/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13400	16.0	01/13/2022	ND	416	104	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	01/13/2022	ND	196	97.8	200	0.476	
DRO >C10-C28*	<10.0	10.0	01/13/2022	ND	197	98.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	01/13/2022	ND					

Surrogate: 1-Chlorooctane 96.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 100 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/12/2022	Sampling Date:	01/12/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 12 (6') (H220123-03)

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	01/12/2022	ND	2.04	102	2.00	5.24		
Toluene*	<0.050	0.050	01/12/2022	ND	1.97	98.5	2.00	6.27		
Ethylbenzene*	<0.050	0.050	01/12/2022	ND	1.92	96.1	2.00	6.14		
Total Xylenes*	<0.150	0.150	01/12/2022	ND	5.88	98.0	6.00	5.69		
Total BTEx	<0.300	0.300	01/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	15600	16.0	01/13/2022	ND	416	104	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	01/13/2022	ND	196	97.8	200	0.476	
DRO >C10-C28*	<10.0	10.0	01/13/2022	ND	197	98.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	01/13/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 61 of 71

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

BILL TO

ANALYSIS REQUEST

Company Name: <u>Caraco Phillips</u>				P.O. #:			
Project Manager: <u>Christian Lull</u>				Company: <u>Tetra Tech</u>			
Address: <u>Chickadee, WI @ Tetra Tech, car</u>				Attn: <u>Christian Lull</u>			
City: <u>State: ZIP:</u>				Address: <u>Cell</u>			
Phone #: <u>Fax #: NA</u>				City: <u>State: ZIP:</u>			
Project #: <u>2120-MD-00099</u> Project Owner:				State: ZIP:			
Project Name: <u>VGEU 2001-02 Fluoride Release</u>				Phone #:			
Project Location: <u>Lee County, NY</u>				Fax #:			
Sample Name: <u>SR Tyler</u>				PRESERV:			
FOR LAB USE ONLY				SAMPLING			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH	BTEX	Chlorides	Hold
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:						
H200123	FS-6 (6')	G	1	X							1-12-22	1000	X	X	X	
	FS-8 (6')	G	1	X								1100	X	X	X	
	FS-12 (6')	G	1	X								1200	X	X	X	

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Relinquished By: <u>for Tyler</u>	Date: <u>1-12-22</u>	Received By: <u>Christian Lull</u>
Relinquished By:	Date:	Received By:
Delivered By: (Circle One) <u>25.2°C-0.5°C</u>	Sample Condition: <u>COOL</u>	CHECKED BY: <u>24-hr</u>
Sampler - UPS - Bus - Other:	Cool Intact: <u>Yes</u>	(Initials)

Phone Results: ☐ Yes ☐ No Add'l Phone #: 24-hr

Fax Results: ☐ Yes ☐ No Add'l Fax #: 24-hr

Email Results to: Christian Lull



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

January 13, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: VGEU 2801-02 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/12/22 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/12/2022	Sampling Date:	01/12/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 28 (6') (H220124-01)

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	01/12/2022	ND	2.04	102	2.00	5.24		
Toluene*	<0.050	0.050	01/12/2022	ND	1.97	98.5	2.00	6.27		
Ethylbenzene*	<0.050	0.050	01/12/2022	ND	1.92	96.1	2.00	6.14		
Total Xylenes*	<0.150	0.150	01/12/2022	ND	5.88	98.0	6.00	5.69		
Total BTEx	<0.300	0.300	01/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 69.9-140

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	01/13/2022	ND	416	104	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	01/13/2022	ND	196	97.8	200	0.476	
DRO >C10-C28*	<10.0	10.0	01/13/2022	ND	197	98.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	01/13/2022	ND					

Surrogate: 1-Chlorooctane 98.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/12/2022	Sampling Date:	01/12/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 29 (6') (H220124-02)

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	01/12/2022	ND	2.04	102	2.00	5.24		
Toluene*	<0.050	0.050	01/12/2022	ND	1.97	98.5	2.00	6.27		
Ethylbenzene*	<0.050	0.050	01/12/2022	ND	1.92	96.1	2.00	6.14		
Total Xylenes*	<0.150	0.150	01/12/2022	ND	5.88	98.0	6.00	5.69		
Total BTEx	<0.300	0.300	01/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	01/13/2022	ND	416	104	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	01/13/2022	ND	196	97.8	200	0.476	
DRO >C10-C28*	<10.0	10.0	01/13/2022	ND	197	98.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	01/13/2022	ND					

Surrogate: 1-Chlorooctane 93.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/12/2022	Sampling Date:	01/12/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 31 (6') (H220124-03)

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	01/12/2022	ND	2.04	102	2.00	5.24		
Toluene*	<0.050	0.050	01/12/2022	ND	1.97	98.5	2.00	6.27		
Ethylbenzene*	<0.050	0.050	01/12/2022	ND	1.92	96.1	2.00	6.14		
Total Xylenes*	<0.150	0.150	01/12/2022	ND	5.88	98.0	6.00	5.69		
Total BTEx	<0.300	0.300	01/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	01/13/2022	ND	416	104	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	01/13/2022	ND	196	97.8	200	0.476	
DRO >C10-C28*	<10.0	10.0	01/13/2022	ND	197	98.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	01/13/2022	ND					

Surrogate: 1-Chlorooctane 98.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 01 of 01

Company Name: <u>Conoco Phillips</u>		BILL TO		ANALYSIS REQUEST																			
Project Manager: <u>Christina Lull</u>		P.O. #:																					
Address: <u>Christina Lull @ tetra tech, co</u>		Company: <u>Tetra Tech</u>																					
City: <u>State: NA</u>		Attn: <u>Christina Lull</u>																					
Phone #: <u>Fax #: NA</u>		Address: <u>email</u>																					
Project #: <u>210C-MD-02099</u>		City: <u>State: NA</u>																					
Project Name: <u>VEEL 2801-03 Etanol Release</u>		State: <u>Zip:</u>																					
Project Location: <u>Lea County, NM</u>		Phone #: <u>Fax #:</u>																					
Sampler Name: <u>Joe Tyler</u>																							
FOR LAB USE ONLY																							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV	SAMPLING													
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH	BTEX	Chlorides	Hold					
<u>H220124</u>	<u>FS-28 (6')</u>	<u>G</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>1-12-22</u>	<u>1300</u>	<u>X</u>	<u>X</u>	<u>X</u>						
<u>2</u>	<u>FS-29 (6')</u>	<u>G</u>	<u>1</u>			<u>X</u>					<u>X</u>			<u>1400</u>	<u>X</u>	<u>X</u>	<u>X</u>						
<u>3</u>	<u>FS-31 (6')</u>	<u>G</u>	<u>1</u>			<u>X</u>					<u>X</u>			<u>1430</u>	<u>X</u>	<u>X</u>	<u>X</u>						

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Relinquished By: Joe Tyler Date: 1-12-22 Time: 1400

Received By: Christina Lull Date: 1-12-22 Time: 1400

Delivered By: (Circle One) 25.2e CC-0.5e Sample Condition: Cool Intact Yes Yes No No CHECKED BY: JD (Initials)

Sampler - UPS - Bus - Other: 24.7e #113 Yes Yes No No

Phone Results: ☐ Yes ☐ No ☐ Add'l Phone #: 24-hour rush

Fax Results: ☐ Yes ☐ No ☐ Add'l Fax #: Christina Lull

Email Results to: Christina Lull

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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

January 19, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: VGEU 2801-02 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/18/22 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/18/2022	Sampling Date:	01/18/2022
Reported:	01/19/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 7 (H220201-01)

BTX 8021B			mg/kg		Analyzed By: MS/				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2022	ND	1.94	96.9	2.00	4.94	QR-03
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.7	2.00	6.37	QR-03
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.82	90.9	2.00	7.27	QR-03
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.52	92.0	6.00	6.63	
Total BTX	<0.300	0.300	01/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/19/2022	ND	400	100	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2022	ND	209	104	200	0.500	
DRO >C10-C28*	31.0	10.0	01/18/2022	ND	218	109	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	01/18/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.1 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/18/2022	Sampling Date:	01/18/2022
Reported:	01/19/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 8 (H220201-02)

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	01/19/2022	ND	1.94	96.9	2.00	4.94		
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.7	2.00	6.37		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.82	90.9	2.00	7.27		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.52	92.0	6.00	6.63		
Total BTEx	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/19/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2022	ND	209	104	200	0.500	
DRO >C10-C28*	<10.0	10.0	01/18/2022	ND	218	109	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	01/18/2022	ND					

Surrogate: 1-Chlorooctane 87.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/18/2022	Sampling Date:	01/18/2022
Reported:	01/19/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 9 (H220201-03)

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	01/19/2022	ND	1.94	96.9	2.00	4.94		
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.7	2.00	6.37		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.82	90.9	2.00	7.27		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.52	92.0	6.00	6.63		
Total BTEx	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/19/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2022	ND	209	104	200	0.500	
DRO >C10-C28*	<10.0	10.0	01/18/2022	ND	218	109	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	01/18/2022	ND					

Surrogate: 1-Chlorooctane 90.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/18/2022	Sampling Date:	01/18/2022
Reported:	01/19/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: SSW - 1 (H220201-04)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2022	ND	1.94	96.9	2.00	4.94		
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.7	2.00	6.37		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.82	90.9	2.00	7.27		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.52	92.0	6.00	6.63		
Total BTX	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	01/19/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2022	ND	209	104	200	0.500	
DRO >C10-C28*	<10.0	10.0	01/18/2022	ND	218	109	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	01/18/2022	ND					

Surrogate: 1-Chlorooctane 93.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/18/2022	Sampling Date:	01/18/2022
Reported:	01/19/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: SSW - 2 (H220201-05)

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	01/19/2022	ND	1.94	96.9	2.00	4.94		
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.7	2.00	6.37		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.82	90.9	2.00	7.27		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.52	92.0	6.00	6.63		
Total BTEx	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	01/19/2022	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	01/18/2022	ND	209	104	200	0.500	
DRO >C10-C28*	<10.0	10.0	01/18/2022	ND	218	109	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	01/18/2022	ND					

Surrogate: 1-Chlorooctane 94.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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Analytical Results For:

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

Received:	01/18/2022	Sampling Date:	01/18/2022
Reported:	01/19/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: SSW - 3 (H220201-06)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2022	ND	1.94	96.9	2.00	4.94		
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.7	2.00	6.37		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.82	90.9	2.00	7.27		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.52	92.0	6.00	6.63		
Total BTX	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	01/19/2022	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	01/18/2022	ND	209	104	200	0.500	
DRO >C10-C28*	<10.0	10.0	01/18/2022	ND	218	109	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	01/18/2022	ND					

Surrogate: 1-Chlorooctane 94.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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Analytical Results For:

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

Received:	01/18/2022	Sampling Date:	01/18/2022
Reported:	01/19/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: SSW - 4 (H220201-07)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2022	ND	1.94	96.9	2.00	4.94		
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.7	2.00	6.37		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.82	90.9	2.00	7.27		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.52	92.0	6.00	6.63		
Total BTX	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/19/2022	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	01/18/2022	ND	209	104	200	0.500	
DRO >C10-C28*	<10.0	10.0	01/18/2022	ND	218	109	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	01/18/2022	ND					

Surrogate: 1-Chlorooctane 88.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/18/2022	Sampling Date:	01/18/2022
Reported:	01/19/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: SSW - 5 (H220201-08)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2022	ND	1.94	96.9	2.00	4.94		
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.7	2.00	6.37		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.82	90.9	2.00	7.27		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.52	92.0	6.00	6.63		
Total BTX	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	01/19/2022	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	01/19/2022	ND	207	104	200	6.94	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	200	100	200	14.7	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 78.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 75.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/18/2022	Sampling Date:	01/18/2022
Reported:	01/19/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 80 (H220201-09)

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	01/19/2022	ND	1.94	96.9	2.00	4.94		
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.7	2.00	6.37		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.82	90.9	2.00	7.27		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.52	92.0	6.00	6.63		
Total BTEx	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	01/19/2022	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	01/19/2022	ND	207	104	200	6.94	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	200	100	200	14.7	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 78.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.1 % 59.5-142

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Analytical Results For:

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

Received:	01/18/2022	Sampling Date:	01/18/2022
Reported:	01/19/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 81 (H220201-10)

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	01/19/2022	ND	1.94	96.9	2.00	4.94		
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.7	2.00	6.37		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.82	90.9	2.00	7.27		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.52	92.0	6.00	6.63		
Total BTEx	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	01/19/2022	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	01/19/2022	ND	207	104	200	6.94	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	200	100	200	14.7	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 88.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.9 % 59.5-142

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Analytical Results For:

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

Received:	01/18/2022	Sampling Date:	01/18/2022
Reported:	01/19/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 84 (H220201-11)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2022	ND	1.94	96.9	2.00	4.94		
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.7	2.00	6.37		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.82	90.9	2.00	7.27		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.52	92.0	6.00	6.63		
Total BTEX	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	01/19/2022	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	01/19/2022	ND	207	104	200	6.94	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	200	100	200	14.7	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.1 % 59.5-142

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Analytical Results For:

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

Received:	01/18/2022	Sampling Date:	01/18/2022
Reported:	01/19/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 85 (H220201-12)

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	01/19/2022	ND	1.94	96.9	2.00	4.94		
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.7	2.00	6.37		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.82	90.9	2.00	7.27		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.52	92.0	6.00	6.63		
Total BTEx	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	01/19/2022	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	01/19/2022	ND	207	104	200	6.94	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	200	100	200	14.7	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 95.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/18/2022	Sampling Date:	01/18/2022
Reported:	01/19/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 6 (8') (H220201-13)

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	01/19/2022	ND	1.94	96.9	2.00	4.94		
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.7	2.00	6.37		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.82	90.9	2.00	7.27		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.52	92.0	6.00	6.63		
Total BTEX	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10900	16.0	01/19/2022	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	01/19/2022	ND	207	104	200	6.94	
DRO >C10-C28*	97.2	10.0	01/19/2022	ND	200	100	200	14.7	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 87.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.3 % 59.5-142

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Analytical Results For:

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

Received:	01/18/2022	Sampling Date:	01/18/2022
Reported:	01/19/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 8 (8') (H220201-14)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2022	ND	1.94	96.9	2.00	4.94		
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.7	2.00	6.37		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.82	90.9	2.00	7.27		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.52	92.0	6.00	6.63		
Total BTEx	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6640	16.0	01/19/2022	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	01/19/2022	ND	207	104	200	6.94	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	200	100	200	14.7	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 84.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/18/2022	Sampling Date:	01/18/2022
Reported:	01/19/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: NSW - 18 (H220201-15)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2022	ND	1.94	96.9	2.00	4.94		
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.7	2.00	6.37		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.82	90.9	2.00	7.27		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.52	92.0	6.00	6.63		
Total BTEx	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	01/19/2022	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	01/19/2022	ND	207	104	200	6.94	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	200	100	200	14.7	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 87.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/18/2022	Sampling Date:	01/18/2022
Reported:	01/19/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: NSW - 19 (H220201-16)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2022	ND	1.94	96.9	2.00	4.94		
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.7	2.00	6.37		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.82	90.9	2.00	7.27		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.52	92.0	6.00	6.63		
Total BTEx	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/19/2022	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	01/19/2022	ND	207	104	200	6.94	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	200	100	200	14.7	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 79.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 77.2 % 59.5-142

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Analytical Results For:

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

Received:	01/18/2022	Sampling Date:	01/18/2022
Reported:	01/19/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: NSW - 20 (H220201-17)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2022	ND	1.94	96.9	2.00	4.94		
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.7	2.00	6.37		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.82	90.9	2.00	7.27		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.52	92.0	6.00	6.63		
Total BTEx	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/19/2022	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	01/19/2022	ND	207	104	200	6.94	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	200	100	200	14.7	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/18/2022	Sampling Date:	01/18/2022
Reported:	01/19/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: NSW - 21 (H220201-18)

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	01/19/2022	ND	1.94	96.9	2.00	4.94		
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.7	2.00	6.37		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.82	90.9	2.00	7.27		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.52	92.0	6.00	6.63		
Total BTEx	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	01/19/2022	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	01/19/2022	ND	207	104	200	6.94	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	200	100	200	14.7	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 80.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.8 % 59.5-142

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 2

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

Company Name: <u>Canoe Pumps</u>		P.O. #:					
Project Manager: <u>Christian Linn</u>		Company: <u>Tetra Tech</u>					
Address: <u>Christian.Linn@tetra-tech.com</u>		Attn: <u>Christian Linn</u>					
City:		Address: <u>by email</u>					
State:		City:					
Zip:		State:					
Phone #:		Zip:					
Project #: <u>212L-AD-02099</u>		Project Owner:					
Project Name: <u>UGEN 2801-02 FL Release</u>		Phone #:					
Project Location: <u>Lee County, NM</u>		Fax #:					
Sample Name: <u>Colton Bixler/Andrew Garcia</u>		PRESERV					
FOR LAB USE ONLY		SAMPLING					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.					
		# CONTAINERS					
<u>H300301</u> <u>1 ESU-7</u> <u>2 ESU-8</u> <u>3 ESU-9</u> <u>4 SSU-1</u> <u>5 SSU-2</u> <u>6 SSU-3</u> <u>7 SSU-4</u> <u>8 SSU-5</u> <u>9 ES-80</u> <u>10 ES-81</u>	<u>61</u> <u>11/8/22</u>	GROUNDWATER	<u>11/8/22</u>	DATE	<u>11/8/22</u>	TIME	<u>TPH</u> <u>BTEX</u> <u>Chlorides</u> <u>Hold</u>
		WASTEWATER		DATE		TIME	
		SOIL		DATE		TIME	
		OIL		DATE		TIME	
		SLUDGE		DATE		TIME	
		OTHER :		DATE		TIME	
		ACID/BASE:		DATE		TIME	
		ICE / COOL		DATE		TIME	
		OTHER :		DATE		TIME	
		DATE		TIME		DATE	

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Relinquished By: Colton Bixler Date: 11/8/22 Received By: Joanna Chalkley

Time: 11:00

Delivered By: (Circle One) 24.65 C-0.50 Sample Condition Yes ☒ Cool ☐ Intact ☐ Yes ☐ No

Sampler - UPS - Bus - Other: 24.10 #113 ☒ No ☐ Yes

CHECKED BY: VP (Initials)

Phone Results: ☐ Yes ☐ No Add'l Phone #: Christian Linn

Email Results to: Pushi: 24he

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 2

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

Company Name: <i>ConocoPhillips</i>		P.O. #:
Project Manager: <i>Christen Hull</i>		Company: <i>Tetra Tech</i>
Address: <i>Christen.Hull@tetra.tech.com</i>		Attn: <i>Christen Hull</i>
City:	State:	Zip:
Phone #:	Fax #: <i>NA</i>	Address: <i>by email</i>
Project #: <i>2405-MD-02099</i>	Project Owner:	City:
Project Name: <i>VISEU 2301-02 FL Release</i>		State:
Project Location: <i>Lea County, NM</i>		Zip:
		Phone #:
		Fax #:
Sampler Name:		
FOR LAB USE ONLY	P	MATRIX
		PRESERV
		SAMPLING

Lab I.D.		Sample I.D.		MATRIX		PRESERVATION		DATE		TIME		TPH		BTEX		Chlorides		Hold	
H220201		ES-84		GROUNDWATER		ACID/BASE:		11/8/02				X		X		X			
11		ES-85		WASTEWATER		ICE / COOL						X		X		X			
12		ES-86 (8')		SOIL		OTHER :						X		X		X			
13		ES-8 (8')		OIL								X		X		X			
14		ES-8 (8')		SLUDGE								X		X		X			
15		NSW-18		OTHER :								X		X		X			
16		NSW-19										X		X		X			
17		NSW-20										X		X		X			
18		NSW-21										X		X		X			

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Relinquished By:		Date: 11/8/22	Received By:
Colton Bizerd		Time: 11:00	Matthew Delaney
Relinquished By:		Date:	Received By:
		Time:	
Delivered By: (Circle One)		Sample Condition	
2466 C-D-5c		Cool	Intact
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sampler - UPS - Bus - Other:		CHECKED BY:	
241c #113		(Initials)	
		V	

Phone Results: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Fax Results: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Email Results to:	
Christian Lin	
Push! 241c	

† Cardinal cannot accept verbal changes. Please fax written changes to 202-541-8700.



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

January 20, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: VGEU 2801-02 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/19/22 15:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/19/2022	Sampling Date:	01/19/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 6 (8.5') (H220217-01)

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	01/19/2022	ND	1.92	95.9	2.00	8.19		
Toluene*	<0.050	0.050	01/19/2022	ND	1.86	93.1	2.00	7.76		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.89	94.5	2.00	8.28		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.72	95.4	6.00	8.03		
Total BTEX	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7280	16.0	01/20/2022	ND	416	104	400	3.92		

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	01/20/2022	ND	233	117	200	0.608	
DRO >C10-C28*	<10.0	10.0	01/20/2022	ND	199	99.6	200	0.127	
EXT DRO >C28-C36	<10.0	10.0	01/20/2022	ND					

Surrogate: 1-Chlorooctane 61.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 55.5 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/19/2022	Sampling Date:	01/19/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 71 (5') (H220217-02)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2022	ND	1.92	95.9	2.00	8.19	
Toluene*	<0.050	0.050	01/19/2022	ND	1.86	93.1	2.00	7.76	
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.89	94.5	2.00	8.28	
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.72	95.4	6.00	8.03	
Total BTX	<0.300	0.300	01/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/20/2022	ND	416	104	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	01/20/2022	ND	233	117	200	0.608	
DRO >C10-C28*	<10.0	10.0	01/20/2022	ND	199	99.6	200	0.127	
EXT DRO >C28-C36	<10.0	10.0	01/20/2022	ND					

Surrogate: 1-Chlorooctane 72.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 64.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/19/2022	Sampling Date:	01/19/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 72 (5') (H220217-03)

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	01/19/2022	ND	1.92	95.9	2.00	8.19		
Toluene*	<0.050	0.050	01/19/2022	ND	1.86	93.1	2.00	7.76		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.89	94.5	2.00	8.28		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.72	95.4	6.00	8.03		
Total BTEx	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	01/20/2022	ND	416	104	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	01/20/2022	ND	233	117	200	0.608	
DRO >C10-C28*	<10.0	10.0	01/20/2022	ND	199	99.6	200	0.127	
EXT DRO >C28-C36	<10.0	10.0	01/20/2022	ND					

Surrogate: 1-Chlorooctane 69.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 62.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/19/2022	Sampling Date:	01/19/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 75 (5') (H220217-04)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2022	ND	1.92	95.9	2.00	8.19	
Toluene*	<0.050	0.050	01/19/2022	ND	1.86	93.1	2.00	7.76	
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.89	94.5	2.00	8.28	
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.72	95.4	6.00	8.03	
Total BTX	<0.300	0.300	01/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/20/2022	ND	416	104	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	01/20/2022	ND	233	117	200	0.608	
DRO >C10-C28*	<10.0	10.0	01/20/2022	ND	199	99.6	200	0.127	
EXT DRO >C28-C36	<10.0	10.0	01/20/2022	ND					

Surrogate: 1-Chlorooctane 78.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 70.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/19/2022	Sampling Date:	01/19/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 76 (5') (H202017-05)

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	01/19/2022	ND	1.99	99.7	2.00	6.98		
Toluene*	<0.050	0.050	01/19/2022	ND	1.96	97.8	2.00	6.92		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.93	96.7	2.00	7.28		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.91	98.5	6.00	5.98		
Total BTEx	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/20/2022	ND	416	104	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	01/20/2022	ND	233	117	200	0.608	
DRO >C10-C28*	<10.0	10.0	01/20/2022	ND	199	99.6	200	0.127	
EXT DRO >C28-C36	<10.0	10.0	01/20/2022	ND					

Surrogate: 1-Chlorooctane 70.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 64.8 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/19/2022	Sampling Date:	01/19/2022
Reported:	01/20/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 79 (5') (H220217-06)

BTX 8021B			mg/kg							
			Analyzed By: MS/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2022	ND	1.99	99.7	2.00	6.98		
Toluene*	<0.050	0.050	01/19/2022	ND	1.96	97.8	2.00	6.92		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.93	96.7	2.00	7.28		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.91	98.5	6.00	5.98		
Total BTX	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	01/20/2022	ND	416	104	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	01/20/2022	ND	233	117	200	0.608		
DRO >C10-C28*	<10.0	10.0	01/20/2022	ND	199	99.6	200	0.127		
EXT DRO >C28-C36	<10.0	10.0	01/20/2022	ND						

Surrogate: 1-Chlorooctane 72.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 68.7 % 59.5-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

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

Celey D. Keene, Lab Director/Quality Manager



Page 1 of 1

Page 9 of 9

Released to Imaging: 9/14/2022 2:31:25 PM



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

January 21, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: VGEU 2801-02 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/20/22 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/20/2022	Sampling Date:	01/20/2022
Reported:	01/21/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: SSW - 12 (4') (H220236-01)

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	01/20/2022	ND	2.23	112	2.00	1.08	
Toluene*	<0.050	0.050	01/20/2022	ND	2.16	108	2.00	1.73	
Ethylbenzene*	<0.050	0.050	01/20/2022	ND	2.14	107	2.00	1.60	
Total Xylenes*	<0.150	0.150	01/20/2022	ND	6.48	108	6.00	1.72	
Total BTEX	<0.300	0.300	01/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/21/2022	ND	416	104	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	01/20/2022	ND	206	103	200	12.3	QM-07
DRO >C10-C28*	11.1	10.0	01/20/2022	ND	197	98.7	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	01/20/2022	ND					

Surrogate: 1-Chlorooctane 73.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 71.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/20/2022	Sampling Date:	01/20/2022
Reported:	01/21/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: NSW - 22 (H220236-02)

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	01/20/2022	ND	2.23	112	2.00	1.08		
Toluene*	<0.050	0.050	01/20/2022	ND	2.16	108	2.00	1.73		
Ethylbenzene*	<0.050	0.050	01/20/2022	ND	2.14	107	2.00	1.60		
Total Xylenes*	<0.150	0.150	01/20/2022	ND	6.48	108	6.00	1.72		
Total BTEx	<0.300	0.300	01/20/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/21/2022	ND	416	104	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	01/20/2022	ND	206	103	200	12.3	
DRO >C10-C28*	32.1	10.0	01/20/2022	ND	197	98.7	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	01/20/2022	ND					

Surrogate: 1-Chlorooctane 83.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/20/2022	Sampling Date:	01/20/2022
Reported:	01/21/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 86 (H220236-03)

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	01/20/2022	ND	2.23	112	2.00	1.08	
Toluene*	<0.050	0.050	01/20/2022	ND	2.16	108	2.00	1.73	
Ethylbenzene*	<0.050	0.050	01/20/2022	ND	2.14	107	2.00	1.60	
Total Xylenes*	<0.150	0.150	01/20/2022	ND	6.48	108	6.00	1.72	
Total BTEx	<0.300	0.300	01/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	01/21/2022	ND	416	104	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	01/20/2022	ND	206	103	200	12.3	
DRO >C10-C28*	<10.0	10.0	01/20/2022	ND	197	98.7	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	01/20/2022	ND					

Surrogate: 1-Chlorooctane 83.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/20/2022	Sampling Date:	01/20/2022
Reported:	01/21/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 83 (H220236-04)

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	01/20/2022	ND	2.23	112	2.00	1.08	
Toluene*	<0.050	0.050	01/20/2022	ND	2.16	108	2.00	1.73	
Ethylbenzene*	<0.050	0.050	01/20/2022	ND	2.14	107	2.00	1.60	
Total Xylenes*	<0.150	0.150	01/20/2022	ND	6.48	108	6.00	1.72	
Total BTEx	<0.300	0.300	01/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	01/21/2022	ND	416	104	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	01/20/2022	ND	206	103	200	12.3	
DRO >C10-C28*	<10.0	10.0	01/20/2022	ND	197	98.7	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	01/20/2022	ND					

Surrogate: 1-Chlorooctane 98.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/20/2022	Sampling Date:	01/20/2022
Reported:	01/21/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 82 (H220236-05)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/20/2022	ND	2.23	112	2.00	1.08		
Toluene*	<0.050	0.050	01/20/2022	ND	2.16	108	2.00	1.73		
Ethylbenzene*	<0.050	0.050	01/20/2022	ND	2.14	107	2.00	1.60		
Total Xylenes*	<0.150	0.150	01/20/2022	ND	6.48	108	6.00	1.72		
Total BTX	<0.300	0.300	01/20/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	01/21/2022	ND	416	104	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	01/20/2022	ND	206	103	200	12.3	
DRO >C10-C28*	<10.0	10.0	01/20/2022	ND	197	98.7	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	01/20/2022	ND					

Surrogate: 1-Chlorooctane 85.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name: <u>Cardinal Labs</u> Project Manager: <u>Christen Lull</u> Address: <u>Christen Lull @tetatech.com</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: NA Project #: <u>2HC-MD-02099</u> Project Owner: _____ Project Name: <u>VGEU 2801-02 PL Release</u> Project Location: <u>Lee County, NY</u> Sampler Name: <u>Colton Burkhardt</u> FOR LAB USE ONLY		BILL TO P.O. #: _____ Company: <u>Tetra Tech</u> Attn: <u>Christen Lull</u> Address: <u>by email</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. Sample I.D. <u>H20036</u> <u>SW-12 (4)</u> <u>1 SW-22</u> <u>2 ES-86</u> <u>3 ES-83</u> <u>4 ES-82</u> <u>5</u>		MATRIX (G)RAB OR (C)OMP. _____ # CONTAINERS _____ GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER : _____ ACID/BASE: _____ ICE / COOL _____ OTHER : _____	
DATE <u>1/20/22</u> TIME _____ TPH _____ BTEX _____ Chlorides _____ Hold _____		ANALYSIS REQUEST	
Relinquished By: <u>Colton Burkhardt</u> Date: <u>1/20/22</u> Time: <u>1555</u> Received By: <u>Christen Lull</u> Date: _____ Time: _____		Delivered By: (Circle One) <u>7.5° C-0.5°</u> Sampler - UPS - Bus - Other: <u>6.9° #113</u> Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact Checked By: <u>78</u> Phone Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Fax Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: _____ Email Results to: <u>Christen Lull / 24h RUSH TAT</u>	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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

January 25, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: VGEU 2801-02 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/24/22 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/24/2022	Sampling Date:	01/24/2022
Reported:	01/25/2022	Sampling Type:	Sludge
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 37 (5') (H220270-01)

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	01/25/2022	ND	2.10	105	2.00	8.79	
Toluene*	<0.050	0.050	01/25/2022	ND	2.03	101	2.00	8.09	
Ethylbenzene*	<0.050	0.050	01/25/2022	ND	2.01	100	2.00	8.43	
Total Xylenes*	<0.150	0.150	01/25/2022	ND	6.09	101	6.00	6.51	
Total BTEX	<0.300	0.300	01/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/25/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2022	ND	204	102	200	1.40	
DRO >C10-C28*	<10.0	10.0	01/25/2022	ND	205	103	200	0.697	
EXT DRO >C28-C36	<10.0	10.0	01/25/2022	ND					

Surrogate: 1-Chlorooctane 92.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/24/2022	Sampling Date:	01/24/2022
Reported:	01/25/2022	Sampling Type:	Sludge
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 40 (5') (H220270-02)

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	01/25/2022	ND	2.10	105	2.00	8.79		
Toluene*	<0.050	0.050	01/25/2022	ND	2.03	101	2.00	8.09		
Ethylbenzene*	<0.050	0.050	01/25/2022	ND	2.01	100	2.00	8.43		
Total Xylenes*	<0.150	0.150	01/25/2022	ND	6.09	101	6.00	6.51		
Total BTEX	<0.300	0.300	01/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/25/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2022	ND	204	102	200	1.40	
DRO >C10-C28*	<10.0	10.0	01/25/2022	ND	205	103	200	0.697	
EXT DRO >C28-C36	<10.0	10.0	01/25/2022	ND					

Surrogate: 1-Chlorooctane 90.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/24/2022	Sampling Date:	01/24/2022
Reported:	01/25/2022	Sampling Type:	Sludge
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 43 (5') (H220270-03)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/25/2022	ND	2.10	105	2.00	8.79		
Toluene*	<0.050	0.050	01/25/2022	ND	2.03	101	2.00	8.09		
Ethylbenzene*	<0.050	0.050	01/25/2022	ND	2.01	100	2.00	8.43		
Total Xylenes*	<0.150	0.150	01/25/2022	ND	6.09	101	6.00	6.51		
Total BTX	<0.300	0.300	01/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/25/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2022	ND	204	102	200	1.40	
DRO >C10-C28*	<10.0	10.0	01/25/2022	ND	205	103	200	0.697	
EXT DRO >C28-C36	<10.0	10.0	01/25/2022	ND					

Surrogate: 1-Chlorooctane 83.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/24/2022	Sampling Date:	01/24/2022
Reported:	01/25/2022	Sampling Type:	Sludge
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 45 (5') (H220270-04)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/25/2022	ND	2.10	105	2.00	8.79	
Toluene*	<0.050	0.050	01/25/2022	ND	2.03	101	2.00	8.09	
Ethylbenzene*	<0.050	0.050	01/25/2022	ND	2.01	100	2.00	8.43	
Total Xylenes*	<0.150	0.150	01/25/2022	ND	6.09	101	6.00	6.51	
Total BTX	<0.300	0.300	01/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/25/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2022	ND	204	102	200	1.40	
DRO >C10-C28*	<10.0	10.0	01/25/2022	ND	205	103	200	0.697	
EXT DRO >C28-C36	<10.0	10.0	01/25/2022	ND					

Surrogate: 1-Chlorooctane 88.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/24/2022	Sampling Date:	01/24/2022
Reported:	01/25/2022	Sampling Type:	Sludge
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 47 (5') (H220270-05)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/25/2022	ND	2.10	105	2.00	8.79		
Toluene*	<0.050	0.050	01/25/2022	ND	2.03	101	2.00	8.09		
Ethylbenzene*	<0.050	0.050	01/25/2022	ND	2.01	100	2.00	8.43		
Total Xylenes*	<0.150	0.150	01/25/2022	ND	6.09	101	6.00	6.51		
Total BTX	<0.300	0.300	01/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/25/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2022	ND	204	102	200	1.40	
DRO >C10-C28*	<10.0	10.0	01/25/2022	ND	205	103	200	0.697	
EXT DRO >C28-C36	<10.0	10.0	01/25/2022	ND					

Surrogate: 1-Chlorooctane 87.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/24/2022	Sampling Date:	01/24/2022
Reported:	01/25/2022	Sampling Type:	Sludge
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 48 (5') (H220270-06)

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	01/25/2022	ND	2.10	105	2.00	8.79		
Toluene*	<0.050	0.050	01/25/2022	ND	2.03	101	2.00	8.09		
Ethylbenzene*	<0.050	0.050	01/25/2022	ND	2.01	100	2.00	8.43		
Total Xylenes*	<0.150	0.150	01/25/2022	ND	6.09	101	6.00	6.51		
Total BTEx	<0.300	0.300	01/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/25/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2022	ND	204	102	200	1.40	
DRO >C10-C28*	<10.0	10.0	01/25/2022	ND	205	103	200	0.697	
EXT DRO >C28-C36	<10.0	10.0	01/25/2022	ND					

Surrogate: 1-Chlorooctane 88.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/24/2022	Sampling Date:	01/24/2022
Reported:	01/25/2022	Sampling Type:	Sludge
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 77 (5') (H220270-07)

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	01/25/2022	ND	2.10	105	2.00	8.79		
Toluene*	<0.050	0.050	01/25/2022	ND	2.03	101	2.00	8.09		
Ethylbenzene*	<0.050	0.050	01/25/2022	ND	2.01	100	2.00	8.43		
Total Xylenes*	<0.150	0.150	01/25/2022	ND	6.09	101	6.00	6.51		
Total BTEx	<0.300	0.300	01/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/25/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2022	ND	204	102	200	1.40	
DRO >C10-C28*	<10.0	10.0	01/25/2022	ND	205	103	200	0.697	
EXT DRO >C28-C36	<10.0	10.0	01/25/2022	ND					

Surrogate: 1-Chlorooctane 79.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/24/2022	Sampling Date:	01/24/2022
Reported:	01/25/2022	Sampling Type:	Sludge
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 78 (5') (H220270-08)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/25/2022	ND	2.10	105	2.00	8.79		
Toluene*	<0.050	0.050	01/25/2022	ND	2.03	101	2.00	8.09		
Ethylbenzene*	<0.050	0.050	01/25/2022	ND	2.01	100	2.00	8.43		
Total Xylenes*	<0.150	0.150	01/25/2022	ND	6.09	101	6.00	6.51		
Total BTX	<0.300	0.300	01/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/25/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2022	ND	204	102	200	1.40	
DRO >C10-C28*	<10.0	10.0	01/25/2022	ND	205	103	200	0.697	
EXT DRO >C28-C36	<10.0	10.0	01/25/2022	ND					

Surrogate: 1-Chlorooctane 88.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 1 of 1

Company Name: <u>Conoco Phillips</u>		P.O. #:	
Project Manager: <u>Christopher Wall</u>		Company: <u>Extra Tech</u>	
Address: <u>christian.wall@extratech.com</u>		Attn: <u>Christopher Wall</u>	
City: _____ State: _____ Zip: _____		Address: <u>by email</u>	
Phone #: _____ Fax #: NA		City: _____	
Project #: <u>21ACMD-02019</u> Project Owner: _____		State: _____ Zip: _____	
Project Name: <u>UGEL 2801-02 FL Release</u>		Phone #: _____	
Project Location: <u>Lea County, NM</u>		Fax #: _____	
Sampler Name: <u>Andrew Garcia</u>		FOR LAB USE ONLY	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						DATE	TIME	TPH	BTX	Chlorides	Hold	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER							
<u>4300310</u>	<u>FS-37</u>	<u>(5')</u>	<u>1</u>							<u>2022</u>	<u>1/24</u>	<u>1000</u>	<u>X</u>	<u>X</u>	<u>X</u>	
	<u>FS-40</u>	<u>(5')</u>		<u>X</u>								<u>1030</u>				
	<u>FS-43</u>	<u>(5')</u>										<u>1100</u>				
	<u>FS-45</u>	<u>(5')</u>										<u>1130</u>				
	<u>FS-47</u>	<u>(5')</u>										<u>1200</u>				
	<u>FS-48</u>	<u>(5')</u>										<u>1230</u>				
	<u>FS-77</u>	<u>(5')</u>										<u>1300</u>				
	<u>FS-78</u>	<u>(5')</u>										<u>1330</u>				

Relinquished By: <u>Andrew Garcia</u>		Date: <u>4/24/22</u>	Time: <u>4:40</u>	Received By: <u>Christina Steele</u>
Relinquished By: _____		Date: _____	Time: _____	Received By: _____
Delivered By: (Circle One) <u>3.42</u> <u>C.O.S</u>		Sample Condition: <u>Cool</u> <u>Intact</u>		
Sampler - UPS - Bus - Other: <u>2.92</u> <u>#113</u>		CHECKED BY: <u>TS</u>		
Phone Results: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: _____		
Fax Results: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #: _____		
Email Results to: <u>christian.wall</u>		24 Hr Rush TAT		



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

January 26, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: VGEU 2801-02 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/25/22 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/25/2022	Sampling Date:	01/25/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 49 (5') (H220290-01)

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	01/26/2022	ND	2.06	103	2.00	5.75		
Toluene*	<0.050	0.050	01/26/2022	ND	1.98	99.0	2.00	6.15		
Ethylbenzene*	<0.050	0.050	01/26/2022	ND	1.97	98.7	2.00	5.35		
Total Xylenes*	<0.150	0.150	01/26/2022	ND	5.97	99.5	6.00	5.22		
Total BTEX	<0.300	0.300	01/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

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	01/26/2022	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	01/26/2022	ND	203	102	200	3.24	
DRO >C10-C28*	<10.0	10.0	01/26/2022	ND	196	98.1	200	7.27	
EXT DRO >C28-C36	<10.0	10.0	01/26/2022	ND					

Surrogate: 1-Chlorooctane 79.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 74.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/25/2022	Sampling Date:	01/25/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 50 (5') (H220290-02)

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	01/26/2022	ND	2.06	103	2.00	5.75	
Toluene*	<0.050	0.050	01/26/2022	ND	1.98	99.0	2.00	6.15	
Ethylbenzene*	<0.050	0.050	01/26/2022	ND	1.97	98.7	2.00	5.35	
Total Xylenes*	<0.150	0.150	01/26/2022	ND	5.97	99.5	6.00	5.22	
Total BTEX	<0.300	0.300	01/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	01/26/2022	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	01/26/2022	ND	203	102	200	3.24	
DRO >C10-C28*	<10.0	10.0	01/26/2022	ND	196	98.1	200	7.27	
EXT DRO >C28-C36	<10.0	10.0	01/26/2022	ND					

Surrogate: 1-Chlorooctane 85.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.2 % 59.5-142

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Analytical Results For:

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

Received:	01/25/2022	Sampling Date:	01/25/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 51 (5') (H220290-03)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2022	ND	2.06	103	2.00	5.75		
Toluene*	<0.050	0.050	01/26/2022	ND	1.98	99.0	2.00	6.15		
Ethylbenzene*	<0.050	0.050	01/26/2022	ND	1.97	98.7	2.00	5.35		
Total Xylenes*	<0.150	0.150	01/26/2022	ND	5.97	99.5	6.00	5.22		
Total BTX	<0.300	0.300	01/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	01/26/2022	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	01/26/2022	ND	203	102	200	3.24	
DRO >C10-C28*	<10.0	10.0	01/26/2022	ND	196	98.1	200	7.27	
EXT DRO >C28-C36	<10.0	10.0	01/26/2022	ND					

Surrogate: 1-Chlorooctane 81.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 75.5 % 59.5-142

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Analytical Results For:

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

Received:	01/25/2022	Sampling Date:	01/25/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 52 (5') (H220290-04)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2022	ND	2.06	103	2.00	5.75	
Toluene*	<0.050	0.050	01/26/2022	ND	1.98	99.0	2.00	6.15	
Ethylbenzene*	<0.050	0.050	01/26/2022	ND	1.97	98.7	2.00	5.35	
Total Xylenes*	<0.150	0.150	01/26/2022	ND	5.97	99.5	6.00	5.22	
Total BTX	<0.300	0.300	01/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	01/26/2022	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	01/26/2022	ND	203	102	200	3.24	
DRO >C10-C28*	<10.0	10.0	01/26/2022	ND	196	98.1	200	7.27	
EXT DRO >C28-C36	<10.0	10.0	01/26/2022	ND					

Surrogate: 1-Chlorooctane 91.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.6 % 59.5-142

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Analytical Results For:

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

Received:	01/25/2022	Sampling Date:	01/25/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 53 (5') (H220290-05)

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	01/26/2022	ND	2.06	103	2.00	5.75		
Toluene*	<0.050	0.050	01/26/2022	ND	1.98	99.0	2.00	6.15		
Ethylbenzene*	<0.050	0.050	01/26/2022	ND	1.97	98.7	2.00	5.35		
Total Xylenes*	<0.150	0.150	01/26/2022	ND	5.97	99.5	6.00	5.22		
Total BTEX	<0.300	0.300	01/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/26/2022	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	01/26/2022	ND	203	102	200	3.24	
DRO >C10-C28*	<10.0	10.0	01/26/2022	ND	196	98.1	200	7.27	
EXT DRO >C28-C36	<10.0	10.0	01/26/2022	ND					

Surrogate: 1-Chlorooctane 73.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 65.7 % 59.5-142

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Analytical Results For:

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

Received:	01/25/2022	Sampling Date:	01/25/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 56 (5') (H220290-06)

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	01/26/2022	ND	2.06	103	2.00	5.75		
Toluene*	<0.050	0.050	01/26/2022	ND	1.98	99.0	2.00	6.15		
Ethylbenzene*	<0.050	0.050	01/26/2022	ND	1.97	98.7	2.00	5.35		
Total Xylenes*	<0.150	0.150	01/26/2022	ND	5.97	99.5	6.00	5.22		
Total BTEX	<0.300	0.300	01/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	01/26/2022	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	01/26/2022	ND	203	102	200	3.24	
DRO >C10-C28*	<10.0	10.0	01/26/2022	ND	196	98.1	200	7.27	
EXT DRO >C28-C36	<10.0	10.0	01/26/2022	ND					

Surrogate: 1-Chlorooctane 88.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.7 % 59.5-142

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Analytical Results For:

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

Received:	01/25/2022	Sampling Date:	01/25/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 60 (5') (H220290-07)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2022	ND	2.06	103	2.00	5.75		
Toluene*	<0.050	0.050	01/26/2022	ND	1.98	99.0	2.00	6.15		
Ethylbenzene*	<0.050	0.050	01/26/2022	ND	1.97	98.7	2.00	5.35		
Total Xylenes*	<0.150	0.150	01/26/2022	ND	5.97	99.5	6.00	5.22		
Total BTX	<0.300	0.300	01/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	01/26/2022	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	01/26/2022	ND	203	102	200	3.24	
DRO >C10-C28*	<10.0	10.0	01/26/2022	ND	196	98.1	200	7.27	
EXT DRO >C28-C36	<10.0	10.0	01/26/2022	ND					

Surrogate: 1-Chlorooctane 77.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 70.4 % 59.5-142

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Analytical Results For:

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

Received:	01/25/2022	Sampling Date:	01/25/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 65 (5') (H220290-08)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2022	ND	2.06	103	2.00	5.75		
Toluene*	<0.050	0.050	01/26/2022	ND	1.98	99.0	2.00	6.15		
Ethylbenzene*	<0.050	0.050	01/26/2022	ND	1.97	98.7	2.00	5.35		
Total Xylenes*	<0.150	0.150	01/26/2022	ND	5.97	99.5	6.00	5.22		
Total BTX	<0.300	0.300	01/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	01/26/2022	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	01/26/2022	ND	203	102	200	3.24	
DRO >C10-C28*	<10.0	10.0	01/26/2022	ND	196	98.1	200	7.27	
EXT DRO >C28-C36	<10.0	10.0	01/26/2022	ND					

Surrogate: 1-Chlorooctane 87.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.6 % 59.5-142

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Analytical Results For:

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

Received:	01/25/2022	Sampling Date:	01/25/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 66 (5') (H220290-09)

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	01/26/2022	ND	2.06	103	2.00	5.75		
Toluene*	<0.050	0.050	01/26/2022	ND	1.98	99.0	2.00	6.15		
Ethylbenzene*	<0.050	0.050	01/26/2022	ND	1.97	98.7	2.00	5.35		
Total Xylenes*	<0.150	0.150	01/26/2022	ND	5.97	99.5	6.00	5.22		
Total BTEX	<0.300	0.300	01/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	01/26/2022	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	01/26/2022	ND	203	102	200	3.24	
DRO >C10-C28*	<10.0	10.0	01/26/2022	ND	196	98.1	200	7.27	
EXT DRO >C28-C36	<10.0	10.0	01/26/2022	ND					

Surrogate: 1-Chlorooctane 78.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 73.0 % 59.5-142

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Analytical Results For:

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

Received:	01/25/2022	Sampling Date:	01/25/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 70 (5') (H220290-10)

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	01/26/2022	ND	2.06	103	2.00	5.75		
Toluene*	<0.050	0.050	01/26/2022	ND	1.98	99.0	2.00	6.15		
Ethylbenzene*	<0.050	0.050	01/26/2022	ND	1.97	98.7	2.00	5.35		
Total Xylenes*	<0.150	0.150	01/26/2022	ND	5.97	99.5	6.00	5.22		
Total BTEX	<0.300	0.300	01/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	01/26/2022	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	01/26/2022	ND	203	102	200	3.24	
DRO >C10-C28*	<10.0	10.0	01/26/2022	ND	196	98.1	200	7.27	
EXT DRO >C28-C36	<10.0	10.0	01/26/2022	ND					

Surrogate: 1-Chlorooctane 82.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 76.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



Page 1 of 1

Page 13 of 13

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

January 31, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: VGEU 2801-02 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/28/22 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: VGEU 2801-02 FLOWLINE RELEASE
Project Number: 212C-MD-02099
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
31-Jan-22 12:40

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS - 32 (5')	H220344-01	Soil	28-Jan-22 09:30	28-Jan-22 14:25
FS - 33 (5')	H220344-02	Soil	28-Jan-22 10:00	28-Jan-22 14:25
FS - 34 (5')	H220344-03	Soil	28-Jan-22 10:30	28-Jan-22 14:25
FS - 35 (5')	H220344-04	Soil	28-Jan-22 11:00	28-Jan-22 14:25
FS - 73 (5')	H220344-05	Soil	28-Jan-22 11:30	28-Jan-22 14:25
SSW - 18 (10')	H220344-06	Soil	28-Jan-22 12:00	28-Jan-22 14:25
SSW - 19 (20')	H220344-07	Soil	28-Jan-22 12:30	28-Jan-22 14:25

01/31/22 - Client changed the sample IDs of -01 through -05. This is the revised report and will replace the one sent earlier 01/31/22.

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: VGEU 2801-02 FLOWLINE RELEASE
Project Number: 212C-MD-02099
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
31-Jan-22 12:40

FS - 32 (5')
H220344-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	320		16.0	mg/kg	4	2013108	GM	31-Jan-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2012814	MS/	28-Jan-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140 2012814 MS/ 28-Jan-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2012811	MS	28-Jan-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2012811	MS	28-Jan-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2012811	MS	28-Jan-22	8015B	

Surrogate: 1-Chlorooctane 87.6 % 66.9-136 2012811 MS 28-Jan-22 8015B

Surrogate: 1-Chlorooctadecane 79.9 % 59.5-142 2012811 MS 28-Jan-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: VGEU 2801-02 FLOWLINE RELEASE
Project Number: 212C-MD-02099
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
31-Jan-22 12:40

FS - 33 (5')
H220344-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	288		16.0	mg/kg	4	2013108	GM	31-Jan-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2012814	MS/	28-Jan-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			100 %		69.9-140	2012814	MS/	28-Jan-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2012811	MS	28-Jan-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2012811	MS	28-Jan-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2012811	MS	28-Jan-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			91.2 %		66.9-136	2012811	MS	28-Jan-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			84.4 %		59.5-142	2012811	MS	28-Jan-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: VGEU 2801-02 FLOWLINE RELEASE
Project Number: 212C-MD-02099
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
31-Jan-22 12:40

FS - 34 (5')
H220344-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	320		16.0	mg/kg	4	2013108	GM	31-Jan-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2012814	MS/	28-Jan-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	69.9-140		2012814	MS/	28-Jan-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2012811	MS	28-Jan-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2012811	MS	28-Jan-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2012811	MS	28-Jan-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			86.2 %	66.9-136		2012811	MS	28-Jan-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			79.2 %	59.5-142		2012811	MS	28-Jan-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: VGEU 2801-02 FLOWLINE RELEASE
Project Number: 212C-MD-02099
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
31-Jan-22 12:40

FS - 35 (5')
H220344-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	272		16.0	mg/kg	4	2013108	GM	31-Jan-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2012814	MS/	28-Jan-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.9 %		69.9-140	2012814	MS/	28-Jan-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2012811	MS	28-Jan-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2012811	MS	28-Jan-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2012811	MS	28-Jan-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			89.8 %		66.9-136	2012811	MS	28-Jan-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			82.4 %		59.5-142	2012811	MS	28-Jan-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: VGEU 2801-02 FLOWLINE RELEASE
Project Number: 212C-MD-02099
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
31-Jan-22 12:40

FS - 73 (5')
H220344-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	2013108	GM	31-Jan-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2012814	MS/	28-Jan-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %		69.9-140	2012814	MS/	28-Jan-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2012811	MS	28-Jan-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2012811	MS	28-Jan-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2012811	MS	28-Jan-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			86.2 %		66.9-136	2012811	MS	28-Jan-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			78.9 %		59.5-142	2012811	MS	28-Jan-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: VGEU 2801-02 FLOWLINE RELEASE
Project Number: 212C-MD-02099
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
31-Jan-22 12:40

SSW - 18 (10')**H220344-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	320		16.0	mg/kg	4	2013109	GM	31-Jan-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2012814	MS/	28-Jan-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	101 %		69.9-140			2012814	MS/	28-Jan-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2012811	MS	28-Jan-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2012811	MS	28-Jan-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2012811	MS	28-Jan-22	8015B	

Surrogate: 1-Chlorooctane	85.3 %		66.9-136			2012811	MS	28-Jan-22	8015B	
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Surrogate: 1-Chlorooctadecane	78.4 %		59.5-142			2012811	MS	28-Jan-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: VGEU 2801-02 FLOWLINE RELEASE
Project Number: 212C-MD-02099
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
31-Jan-22 12:40

SSW - 19 (20')**H220344-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	320		16.0	mg/kg	4	2013109	GM	31-Jan-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2012814	MS/	28-Jan-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2012814	MS/	28-Jan-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %		69.9-140	2012814	MS/	28-Jan-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2012811	MS	28-Jan-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2012811	MS	28-Jan-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2012811	MS	28-Jan-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			86.7 %		66.9-136	2012811	MS	28-Jan-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			79.8 %		59.5-142	2012811	MS	28-Jan-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: VGEU 2801-02 FLOWLINE RELEASE
Project Number: 212C-MD-02099
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
31-Jan-22 12:40

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 2013108 - 1:4 DI Water**Blank (2013108-BLK1)**

Prepared & Analyzed: 31-Jan-22

Chloride	ND	16.0	mg/kg						
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LCS (2013108-BS1)

Prepared & Analyzed: 31-Jan-22

Chloride	416	16.0	mg/kg	400	104	80-120			
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LCS Dup (2013108-BSD1)

Prepared & Analyzed: 31-Jan-22

Chloride	400	16.0	mg/kg	400	100	80-120	3.92	20	
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Batch 2013109 - 1:4 DI Water**Blank (2013109-BLK1)**

Prepared & Analyzed: 31-Jan-22

Chloride	ND	16.0	mg/kg						
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LCS (2013109-BS1)

Prepared & Analyzed: 31-Jan-22

Chloride	416	16.0	mg/kg	400	104	80-120			
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LCS Dup (2013109-BSD1)

Prepared & Analyzed: 31-Jan-22

Chloride	416	16.0	mg/kg	400	104	80-120	0.00	20	
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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: VGEU 2801-02 FLOWLINE RELEASE
Project Number: 212C-MD-02099
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
31-Jan-22 12:40

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2012814 - Volatiles**Blank (2012814-BLK1)**

Prepared & Analyzed: 28-Jan-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0507		mg/kg	0.0500		101	69.9-140			

LCS (2012814-BS1)

Prepared & Analyzed: 28-Jan-22

Benzene	2.07	0.050	mg/kg	2.00		103	85.1-114			
Toluene	1.99	0.050	mg/kg	2.00		99.7	88.6-116			
Ethylbenzene	1.96	0.050	mg/kg	2.00		97.9	84.4-115			
m,p-Xylene	3.96	0.100	mg/kg	4.00		99.1	85.5-116			
o-Xylene	1.94	0.050	mg/kg	2.00		97.2	85.2-111			
Total Xylenes	5.91	0.150	mg/kg	6.00		98.5	86.2-113			
Surrogate: 4-Bromofluorobenzene (PID)	0.0488		mg/kg	0.0500		97.5	69.9-140			

LCS Dup (2012814-BSD1)

Prepared & Analyzed: 28-Jan-22

Benzene	2.15	0.050	mg/kg	2.00		108	85.1-114	4.05	12.6	
Toluene	2.08	0.050	mg/kg	2.00		104	88.6-116	4.23	13.3	
Ethylbenzene	2.03	0.050	mg/kg	2.00		102	84.4-115	3.73	13.9	
m,p-Xylene	4.14	0.100	mg/kg	4.00		103	85.5-116	4.25	13.6	
o-Xylene	2.03	0.050	mg/kg	2.00		102	85.2-111	4.54	14.1	
Total Xylenes	6.17	0.150	mg/kg	6.00		103	86.2-113	4.34	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0494		mg/kg	0.0500		98.7	69.9-140			

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Analytical Results For:

TETRA TECH
901 WEST WALL STREET, STE 100
MIDLAND TX, 79701

Project: VGEU 2801-02 FLOWLINE RELEASE
Project Number: 212C-MD-02099
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
31-Jan-22 12:40

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2012811 - General Prep - Organics**Blank (2012811-BLK1)**

Prepared & Analyzed: 28-Jan-22

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	52.9		mg/kg	50.0		106	66.9-136			
Surrogate: 1-Chlorooctadecane	53.5		mg/kg	50.0		107	59.5-142			

LCS (2012811-BS1)

Prepared & Analyzed: 28-Jan-22

GRO C6-C10	212	10.0	mg/kg	200		106	81.6-129			
DRO >C10-C28	220	10.0	mg/kg	200		110	83-129			
Total TPH C6-C28	431	10.0	mg/kg	400		108	84.5-127			
Surrogate: 1-Chlorooctane	56.0		mg/kg	50.0		112	66.9-136			
Surrogate: 1-Chlorooctadecane	62.6		mg/kg	50.0		125	59.5-142			

LCS Dup (2012811-BSD1)

Prepared & Analyzed: 28-Jan-22

GRO C6-C10	203	10.0	mg/kg	200		102	81.6-129	4.05	21.4	
DRO >C10-C28	192	10.0	mg/kg	200		96.0	83-129	13.4	17.9	
Total TPH C6-C28	395	10.0	mg/kg	400		98.8	84.5-127	8.72	17.6	
Surrogate: 1-Chlorooctane	57.3		mg/kg	50.0		115	66.9-136			
Surrogate: 1-Chlorooctadecane	65.5		mg/kg	50.0		131	59.5-142			

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 1 of 1

Company Name: <u>Conoco Phillips</u> Project Manager: <u>Christopher Lull</u> Address: <u>christian.lull@conoco.com</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: NA Project #: <u>812C-MD-08099</u> Project Owner: _____ Project Name: <u>UGEL 1801-02 Fl Release</u> Project Location: <u>Lea County, NM</u> Sample Name: <u>Andrew Garcia</u> FOR LAB USE ONLY		P.O. #: _____ Company: <u>Testa Tech</u> Attn: <u>Christopher Lull</u> Address: <u>by email</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. <u>4220344</u> <u>OK 1/31/22</u> Sample I.D. * <u>FS-35 (5')</u> <u>FS-33 (5')</u> <u>FS-34 (5')</u> <u>FS-35 (5')</u> <u>FS-73 (5')</u> <u>SSV-18 (10')</u> <u>SSV-19 (20')</u>		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: _____ ACID/BASE: _____ ICE / COOL OTHER: _____	MATRIX PRESERV SAMPLING
DATE <u>2022</u> TIME <u>9:30</u> TPH <u>X</u> BTEX <u>X</u> Chlorides <u>X</u> Hold _____		ANALYSIS REQUEST	

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Relinquished By: <u>Andrew Garcia</u> Date: <u>1/29/22</u> Time: <u>4:25</u> Received By: <u>Christopher Lull</u> Date: _____ Time: _____	Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____
---	--

Delivered By: (Circle One) <u>1.3e</u> C-O-S Sampler - UPS - Bus - Other: <u>0.8e #113</u> Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> CHECKED BY: <u>TD</u> (Initials)	Phone Results: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ Fax Results: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #: _____ Email Results to: <u>Christopher Lull</u> <u>24 Hr. Rush TAT</u> <u>*Sample IDs revised per Christian. 1/31/22</u> <u>Ch</u>
--	--

+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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

February 01, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: VGEU 2801-02 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/31/22 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/31/2022	Sampling Date:	01/31/2022
Reported:	02/01/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 57 (5') (H220365-01)

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	02/01/2022	ND	1.98	99.0	2.00	8.49		
Toluene*	<0.050	0.050	02/01/2022	ND	1.92	95.9	2.00	7.76		
Ethylbenzene*	<0.050	0.050	02/01/2022	ND	1.89	94.3	2.00	8.45		
Total Xylenes*	<0.150	0.150	02/01/2022	ND	5.69	94.9	6.00	8.73		
Total BTEX	<0.300	0.300	02/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	02/01/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2022	ND	197	98.5	200	7.48	
DRO >C10-C28*	10.5	10.0	02/01/2022	ND	234	117	200	6.01	
EXT DRO >C28-C36	<10.0	10.0	02/01/2022	ND					

Surrogate: 1-Chlorooctane 94.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/31/2022	Sampling Date:	01/31/2022
Reported:	02/01/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 61 (5') (H220365-02)

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	02/01/2022	ND	1.98	99.0	2.00	8.49		
Toluene*	<0.050	0.050	02/01/2022	ND	1.92	95.9	2.00	7.76		
Ethylbenzene*	<0.050	0.050	02/01/2022	ND	1.89	94.3	2.00	8.45		
Total Xylenes*	<0.150	0.150	02/01/2022	ND	5.69	94.9	6.00	8.73		
Total BTEx	<0.300	0.300	02/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/01/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2022	ND	197	98.5	200	7.48	
DRO >C10-C28*	<10.0	10.0	02/01/2022	ND	234	117	200	6.01	
EXT DRO >C28-C36	<10.0	10.0	02/01/2022	ND					

Surrogate: 1-Chlorooctane 92.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/31/2022	Sampling Date:	01/31/2022
Reported:	02/01/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 63 (5') (H220365-03)

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	02/01/2022	ND	1.98	99.0	2.00	8.49		
Toluene*	<0.050	0.050	02/01/2022	ND	1.92	95.9	2.00	7.76		
Ethylbenzene*	<0.050	0.050	02/01/2022	ND	1.89	94.3	2.00	8.45		
Total Xylenes*	<0.150	0.150	02/01/2022	ND	5.69	94.9	6.00	8.73		
Total BTEx	<0.300	0.300	02/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/01/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2022	ND	197	98.5	200	7.48	
DRO >C10-C28*	<10.0	10.0	02/01/2022	ND	234	117	200	6.01	
EXT DRO >C28-C36	<10.0	10.0	02/01/2022	ND					

Surrogate: 1-Chlorooctane 88.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/31/2022	Sampling Date:	01/31/2022
Reported:	02/01/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 68 (5') (H220365-04)

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	02/01/2022	ND	1.98	99.0	2.00	8.49		
Toluene*	<0.050	0.050	02/01/2022	ND	1.92	95.9	2.00	7.76		
Ethylbenzene*	<0.050	0.050	02/01/2022	ND	1.89	94.3	2.00	8.45		
Total Xylenes*	<0.150	0.150	02/01/2022	ND	5.69	94.9	6.00	8.73		
Total BTEx	<0.300	0.300	02/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	02/01/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2022	ND	197	98.5	200	7.48	
DRO >C10-C28*	<10.0	10.0	02/01/2022	ND	234	117	200	6.01	
EXT DRO >C28-C36	<10.0	10.0	02/01/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 116 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/31/2022	Sampling Date:	01/31/2022
Reported:	02/01/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 69 (5') (H220365-05)

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	02/01/2022	ND	1.98	99.0	2.00	8.49		
Toluene*	<0.050	0.050	02/01/2022	ND	1.92	95.9	2.00	7.76		
Ethylbenzene*	<0.050	0.050	02/01/2022	ND	1.89	94.3	2.00	8.45		
Total Xylenes*	<0.150	0.150	02/01/2022	ND	5.69	94.9	6.00	8.73		
Total BTEx	<0.300	0.300	02/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-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	02/01/2022	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	02/01/2022	ND	197	98.5	200	7.48	
DRO >C10-C28*	18.0	10.0	02/01/2022	ND	234	117	200	6.01	
EXT DRO >C28-C36	<10.0	10.0	02/01/2022	ND					

Surrogate: 1-Chlorooctane 92.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/31/2022	Sampling Date:	01/31/2022
Reported:	02/01/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 74 (5') (H220365-06)

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	02/01/2022	ND	1.98	99.0	2.00	8.49		
Toluene*	<0.050	0.050	02/01/2022	ND	1.92	95.9	2.00	7.76		
Ethylbenzene*	<0.050	0.050	02/01/2022	ND	1.89	94.3	2.00	8.45		
Total Xylenes*	<0.150	0.150	02/01/2022	ND	5.69	94.9	6.00	8.73		
Total BTEx	<0.300	0.300	02/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	02/01/2022	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	02/01/2022	ND	197	98.5	200	7.48	
DRO >C10-C28*	20.2	10.0	02/01/2022	ND	234	117	200	6.01	
EXT DRO >C28-C36	<10.0	10.0	02/01/2022	ND					

Surrogate: 1-Chlorooctane 86.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 1 of 1

Company Name: Corco Phillips		P.O. #:													
Project Manager: Christian Llull		Company: TetraTech													
Address: Christian.Llull@tetra.tech.com		Attn: Christian Llull													
City:		Address:													
State:		City:													
Phone #:		State:													
Fax #: NA		Zip:													
Project #: 212C-MD-0209		Project Owner:													
Project Name: VGEN 2801-02 FL Release		State:													
Project Location: Lea County, NM		Phone #:													
Sample Name: Andrea Garcia		Fax #:													
FOR LAB USE ONLY		BILL TO													
Lab I.D.	Sample I.D.	MATRIX		PRESERV		SAMPLING									
		(G)RAB OR (C)OMP.		DATE		TIME									
H20305 1 2 3 4 5 6	FS-57 (5')	G	1	2022	1/31	0900	X	TPH	X	BTEX	X	Chlorides	X	Hold	
	FS-61 (5')														
	FS-63 (5')														
	FS-68 (5')														
	FS-69 (5')														
	FS-74 (5')														
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Relinquished By: Andrea Garcia		Date: 31 Jan 22		Received By: Tamara Chubb		Date: 16 Feb 22		Time:		Sample Condition		CHECKED BY: (Initials)		Phone Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Date:		Received By:		Date:		Time:		Sample Condition		CHECKED BY:		Phone Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Delivered By: (Circle One) 5.92 C-0.52		Sample Condition		CHECKED BY:		Phone Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:		Time:		Sample Condition		CHECKED BY:		Phone Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Sampler - UPS - Bus - Other: 5.42 #113		Sample Condition		CHECKED BY:		Phone Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:		Time:		Sample Condition		CHECKED BY:		Phone Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

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

November 16, 2021

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU SATELLITE 1-2 TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 11/10/21 11:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MIDLAND BP 22
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
16-Nov-21 09:32

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW - 21 - 1	H213199-01	Soil	10-Nov-21 10:45	10-Nov-21 11:45
FS - 21 - 1	H213199-02	Soil	10-Nov-21 10:50	10-Nov-21 11:45

11/16/21 - Client changed the project name and number. This is the revised report and will replace the one sent on 11/15/21.

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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MIDLAND BP 22
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
16-Nov-21 09:32

SW - 21 - 1
H213199-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	640		16.0	mg/kg	4	1111107	AC	11-Nov-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1111113	MS	11-Nov-21	8021B	
Toluene*	0.069		0.050	mg/kg	50	1111113	MS	11-Nov-21	8021B	
Ethylbenzene*	0.050		0.050	mg/kg	50	1111113	MS	11-Nov-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1111113	MS	11-Nov-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1111113	MS	11-Nov-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			93.4 %		69.9-140	1111113	MS	11-Nov-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1111114	MS	12-Nov-21	8015B	
DRO >C10-C28*	1040		10.0	mg/kg	1	1111114	MS	12-Nov-21	8015B	
EXT DRO >C28-C36	701		10.0	mg/kg	1	1111114	MS	12-Nov-21	8015B	

Surrogate: 1-Chlorooctane			91.1 %		44.3-133	1111114	MS	12-Nov-21	8015B	
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Surrogate: 1-Chlorooctadecane			131 %		38.9-142	1111114	MS	12-Nov-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MIDLAND BP 22
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
16-Nov-21 09:32

FS - 21 - 1
H213199-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	7730		16.0	mg/kg	4	1111107	AC	11-Nov-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	3.67		0.200	mg/kg	200	1111113	MS	11-Nov-21	8021B	
Toluene*	30.9		0.200	mg/kg	200	1111113	MS	11-Nov-21	8021B	
Ethylbenzene*	34.8		0.200	mg/kg	200	1111113	MS	11-Nov-21	8021B	
Total Xylenes*	55.1		0.600	mg/kg	200	1111113	MS	11-Nov-21	8021B	
Total BTEX	124		1.20	mg/kg	200	1111113	MS	11-Nov-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			128 %	69.9-140		1111113	MS	11-Nov-21	8021B	
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Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	876		50.0	mg/kg	5	1111114	MS	12-Nov-21	8015B	
DRO >C10-C28*	4650		50.0	mg/kg	5	1111114	MS	12-Nov-21	8015B	
EXT DRO >C28-C36	887		50.0	mg/kg	5	1111114	MS	12-Nov-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			160 %	44.3-133		1111114	MS	12-Nov-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			144 %	38.9-142		1111114	MS	12-Nov-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MIDLAND BP 22
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
16-Nov-21 09:32

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1111107 - 1:4 DI Water									
Blank (1111107-BLK1)					Prepared & Analyzed: 11-Nov-21				
Chloride	ND	16.0	mg/kg						
LCS (1111107-BS1)					Prepared & Analyzed: 11-Nov-21				
Chloride	432	16.0	mg/kg	400	108	80-120			
LCS Dup (1111107-BSD1)					Prepared & Analyzed: 11-Nov-21				
Chloride	432	16.0	mg/kg	400	108	80-120	0.00	20	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MIDLAND BP 22
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
16-Nov-21 09:32

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 111113 - Volatiles**Blank (111113-BLK1)**

Prepared & Analyzed: 11-Nov-21

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		93.2	69.9-140			

LCS (111113-BS1)

Prepared & Analyzed: 11-Nov-21

Benzene	2.09	0.050	mg/kg	2.00		104	85.1-114			
Toluene	1.98	0.050	mg/kg	2.00		99.0	88.6-116			
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.4	84.4-115			
m,p-Xylene	4.07	0.100	mg/kg	4.00		102	85.5-116			
o-Xylene	1.95	0.050	mg/kg	2.00		97.5	85.2-111			
Total Xylenes	6.02	0.150	mg/kg	6.00		100	86.2-113			
Surrogate: 4-Bromofluorobenzene (PID)	0.0462		mg/kg	0.0500		92.4	69.9-140			

LCS Dup (111113-BSD1)

Prepared & Analyzed: 11-Nov-21

Benzene	2.15	0.050	mg/kg	2.00		107	85.1-114	2.90	12.6	
Toluene	2.02	0.050	mg/kg	2.00		101	88.6-116	1.92	13.3	
Ethylbenzene	2.02	0.050	mg/kg	2.00		101	84.4-115	2.67	13.9	
m,p-Xylene	4.19	0.100	mg/kg	4.00		105	85.5-116	2.91	13.6	
o-Xylene	2.02	0.050	mg/kg	2.00		101	85.2-111	3.57	14.1	
Total Xylenes	6.21	0.150	mg/kg	6.00		104	86.2-113	3.13	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0461		mg/kg	0.0500		92.2	69.9-140			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MIDLAND BP 22
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
16-Nov-21 09:32

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 111114 - General Prep - Organics**Blank (111114-BLK1)**

Prepared & Analyzed: 11-Nov-21

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	52.1		mg/kg	50.0		104	44.3-133			
Surrogate: 1-Chlorooctadecane	54.0		mg/kg	50.0		108	38.9-142			

LCS (111114-BS1)

Prepared & Analyzed: 11-Nov-21

GRO C6-C10	231	10.0	mg/kg	200		116	83.4-129			
DRO >C10-C28	227	10.0	mg/kg	200		114	79.3-136			
Total TPH C6-C28	459	10.0	mg/kg	400		115	85.3-130			
Surrogate: 1-Chlorooctane	56.1		mg/kg	50.0		112	44.3-133			
Surrogate: 1-Chlorooctadecane	57.2		mg/kg	50.0		114	38.9-142			

LCS Dup (111114-BSD1)

Prepared & Analyzed: 11-Nov-21

GRO C6-C10	221	10.0	mg/kg	200		110	83.4-129	4.75	12.6	
DRO >C10-C28	208	10.0	mg/kg	200		104	79.3-136	8.67	12.1	
Total TPH C6-C28	429	10.0	mg/kg	400		107	85.3-130	6.67	11.6	
Surrogate: 1-Chlorooctane	55.0		mg/kg	50.0		110	44.3-133			
Surrogate: 1-Chlorooctadecane	56.5		mg/kg	50.0		113	38.9-142			

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 1 of 1

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

November 19, 2021

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: VGFU 01-02 SATELLITE 1,2

Enclosed are the results of analyses for samples received by the laboratory on 11/18/21 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/18/2021	Sampling Date:	11/18/2021
Reported:	11/19/2021	Sampling Type:	Soil
Project Name:	VGFU 01-02 SATELLITE 1,2	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	LEA CO NM		

Sample ID: SW - 21 - 1 (2') (H213320-01)

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	11/19/2021	ND	2.06	103	2.00	0.531	
Toluene*	<0.050	0.050	11/19/2021	ND	1.95	97.3	2.00	0.251	
Ethylbenzene*	<0.050	0.050	11/19/2021	ND	1.92	95.9	2.00	0.200	
Total Xylenes*	<0.150	0.150	11/19/2021	ND	5.84	97.4	6.00	0.720	
Total BTEX	<0.300	0.300	11/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 69.9-140

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	11/19/2021	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	11/19/2021	ND	191	95.6	200	6.50	
DRO >C10-C28*	312	10.0	11/19/2021	ND	216	108	200	5.29	
EXT DRO >C28-C36	222	10.0	11/19/2021	ND					

Surrogate: 1-Chlorooctane 84.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/18/2021	Sampling Date:	11/18/2021
Reported:	11/19/2021	Sampling Type:	Soil
Project Name:	VGFU 01-02 SATELLITE 1,2	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02099	Sample Received By:	Jodi Henson
Project Location:	LEA CO NM		

Sample ID: FS - 21 - 1 (5') (H213320-02)

BTX 8021B			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/19/2021	ND	2.06	103	2.00	0.531		
Toluene*	<0.050	0.050	11/19/2021	ND	1.95	97.3	2.00	0.251		
Ethylbenzene*	<0.050	0.050	11/19/2021	ND	1.92	95.9	2.00	0.200		
Total Xylenes*	<0.150	0.150	11/19/2021	ND	5.84	97.4	6.00	0.720		
Total BTX	<0.300	0.300	11/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 69.9-140

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	11/19/2021	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	11/19/2021	ND	191	95.6	200	6.50		
DRO >C10-C28*	295	10.0	11/19/2021	ND	216	108	200	5.29		
EXT DRO >C28-C36	214	10.0	11/19/2021	ND						

Surrogate: 1-Chlorooctane 92.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 106 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

KLUS#

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Tetra Tech</u>		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Christina Hull</u>		Company: <u>Tetra Tech</u>					
Address: <u>901 W. Wall St Ste 100</u>		Attn: <u>Christina Hull</u>					
City: <u>Midland</u>		Address:					
State: <u>TX</u> Zip: <u>79701</u>		City:					
Phone #: <u>512 565 0190</u> Fax #:		State:					
Project #: <u>2120-MO-02099</u> Project Owner: <u>Tetra Tech</u>		Zip:					
Project Name: <u>VGETU 01-02 Satellite 1,2</u>		Phone #:					
Project Location: <u>Lea County NM</u>		Fax #:					
Sampler Name: <u>John Thurston</u>		PRESERV.					
FOR LAB USE ONLY		SAMPLING					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	DATE	TIME	
<u>H213320</u>	<u>SW-21-1 (2)</u>	<u>G 1</u>	<u>1</u>	GROUNDWATER	<u>11/14/21</u>	<u>1300</u>	<u>Chloride 300</u>
	<u>FS-21-1 (5)</u>	<u>G 1</u>	<u>1</u>	WASTEWATER	<u>11/14/21</u>	<u>1305</u>	<u>BTEX 80210</u>
				SOIL			<u>TPH 8015M</u>
				OIL			
				SLUDGE			
				OTHER:			
				ACID/BASE:			
				ICE / COOL			
				OTHER:			
Relinquished By: <u>John Thurston</u>		Received By: <u>Debi Skennerson</u>					
Date: <u>11/14/21</u>		Time: <u>1600</u>					
Relinquished By: <u>John Thurston</u>		Received By: <u>Debi Skennerson</u>					
Date: <u>11/14/21</u>		Time: <u>1600</u>					
Delivered By: (Circle One)		Observed Temp. °C: <u>6.2</u>		Sample Condition		CHECKED BY: <u>[Signature]</u>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: <u>5.7</u>		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
				Bacteria (only) Sample Condition		Thermometer ID #113 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Correction Factor -0.5°C <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
				Observed Temp. °C		Corrected Temp. °C	

FORM-0007-3.2-10/07/21

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

November 23, 2021

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: VGFU 01-02

Enclosed are the results of analyses for samples received by the laboratory on 11/22/21 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/22/2021
 Reported: 11/23/2021
 Project Name: VGFU 01-02
 Project Number: 212C-MD-02099.991
 Project Location: COP - LEA CO NM

Sampling Date: 11/22/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 21 - 1 (4') (H213356-01)

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	11/22/2021	ND	2.04	102	2.00	3.68	
Toluene*	<0.050	0.050	11/22/2021	ND	1.93	96.7	2.00	4.29	
Ethylbenzene*	<0.050	0.050	11/22/2021	ND	1.91	95.3	2.00	4.29	
Total Xylenes*	<0.150	0.150	11/22/2021	ND	5.83	97.2	6.00	4.24	
Total BTEX	<0.300	0.300	11/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/23/2021	ND	416	104	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	11/22/2021	ND	229	115	200	1.97	
DRO >C10-C28*	25.8	10.0	11/22/2021	ND	231	116	200	6.86	
EXT DRO >C28-C36	21.8	10.0	11/22/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 107 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

December 06, 2021

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU SATELLITE 1-2 TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 12/03/21 10:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS - 21 - 2	H213474-01	Soil	02-Dec-21 09:00	03-Dec-21 10:45
FS - 21 - 3	H213474-02	Soil	02-Dec-21 09:05	03-Dec-21 10:45
FS - 21 - 4	H213474-03	Soil	02-Dec-21 09:10	03-Dec-21 10:45
FS - 21 - 5	H213474-04	Soil	02-Dec-21 09:15	03-Dec-21 10:45
FS - 21 - 6	H213474-05	Soil	02-Dec-21 09:20	03-Dec-21 10:45
FS - 21 - 7	H213474-06	Soil	02-Dec-21 09:25	03-Dec-21 10:45
FS - 21 - 8	H213474-07	Soil	02-Dec-21 09:30	03-Dec-21 10:45
FS - 21 - 9	H213474-08	Soil	02-Dec-21 09:35	03-Dec-21 10:45
FS - 21 - 10	H213474-09	Soil	02-Dec-21 09:40	03-Dec-21 10:45
FS - 21 - 11	H213474-10	Soil	02-Dec-21 09:45	03-Dec-21 10:45
FS - 21 - 13	H213474-11	Soil	02-Dec-21 09:50	03-Dec-21 10:45
FS - 21 - 14	H213474-12	Soil	02-Dec-21 09:55	03-Dec-21 10:45
FS - 21 - 15	H213474-13	Soil	02-Dec-21 10:00	03-Dec-21 10:45
FS - 21 - 16	H213474-14	Soil	02-Dec-21 10:05	03-Dec-21 10:45
FS - 21 - 17	H213474-15	Soil	02-Dec-21 10:10	03-Dec-21 10:45
FS - 21 - 18	H213474-16	Soil	02-Dec-21 10:15	03-Dec-21 10:45
FS - 21 - 19	H213474-17	Soil	02-Dec-21 10:20	03-Dec-21 10:45
FS - 21 - 20	H213474-18	Soil	02-Dec-21 10:25	03-Dec-21 10:45
FS - 21 - 21	H213474-19	Soil	02-Dec-21 10:30	03-Dec-21 10:45
FS - 21 - 12	H213474-20	Soil	02-Dec-21 10:35	03-Dec-21 10:45
FS - 21 - 22	H213474-21	Soil	02-Dec-21 10:40	03-Dec-21 10:45
FS - 21 - 23	H213474-22	Soil	02-Dec-21 10:45	03-Dec-21 10:45
NSW - 21 - 1	H213474-23	Soil	02-Dec-21 10:50	03-Dec-21 10:45
NSW - 21 - 2	H213474-24	Soil	02-Dec-21 10:55	03-Dec-21 10:45
NSW - 21 - 3	H213474-25	Soil	02-Dec-21 11:00	03-Dec-21 10:45
ESW - 21 - 1	H213474-26	Soil	02-Dec-21 11:05	03-Dec-21 10:45
ESW - 21 - 2	H213474-27	Soil	02-Dec-21 11:10	03-Dec-21 10:45

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

ESW - 21 - 3	H213474-28	Soil	02-Dec-21 11:15	03-Dec-21 10:45
ESW - 21 - 4	H213474-29	Soil	02-Dec-21 11:20	03-Dec-21 10:45
ESW - 21 - 5	H213474-30	Soil	02-Dec-21 11:25	03-Dec-21 10:45
ESW - 21 - 6	H213474-31	Soil	02-Dec-21 11:30	03-Dec-21 10:45
ESW - 21 - 7	H213474-32	Soil	02-Dec-21 11:35	03-Dec-21 10:45
ESW - 21 - 8	H213474-33	Soil	02-Dec-21 11:40	03-Dec-21 10:45
SSW - 21 - 1	H213474-34	Soil	02-Dec-21 11:45	03-Dec-21 10:45
WSW - 21 - 2	H213474-35	Soil	02-Dec-21 11:50	03-Dec-21 10:45
WSW - 21 - 3	H213474-36	Soil	02-Dec-21 11:55	03-Dec-21 10:45
WSW - 21 - 4	H213474-37	Soil	02-Dec-21 12:00	03-Dec-21 10:45
WSW - 21 - 5	H213474-38	Soil	02-Dec-21 12:05	03-Dec-21 10:45
WSW - 21 - 6	H213474-39	Soil	02-Dec-21 12:10	03-Dec-21 10:45
WSW - 21 - 7	H213474-40	Soil	02-Dec-21 12:15	03-Dec-21 10:45
WSW - 21 - 8	H213474-41	Soil	02-Dec-21 12:20	03-Dec-21 10:45
WSW - 21 - 9	H213474-42	Soil	02-Dec-21 12:25	03-Dec-21 10:45
WSW - 21 - 10	H213474-43	Soil	02-Dec-21 12:30	03-Dec-21 10:45

12/06/21 - Project name was changed as per the client. This is the revised report and will replace the one sent earlier 12/06/21.

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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 2
H213474-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.9-140 1120314 MS/ 03-Dec-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	

Surrogate: 1-Chlorooctane 111 % 44.3-133 1120310 MS 03-Dec-21 8015B

Surrogate: 1-Chlorooctadecane 116 % 38.9-142 1120310 MS 03-Dec-21 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 3
H213474-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.5 %		69.9-140	1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			112 %		44.3-133	1120310	MS	03-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			110 %		38.9-142	1120310	MS	03-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 4
H213474-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 69.9-140 1120314 MS/ 03-Dec-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	

Surrogate: 1-Chlorooctane 110 % 44.3-133 1120310 MS 03-Dec-21 8015B

Surrogate: 1-Chlorooctadecane 110 % 38.9-142 1120310 MS 03-Dec-21 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 5
H213474-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			96.4 %		69.9-140	1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			115 %		44.3-133	1120310	MS	03-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			115 %		38.9-142	1120310	MS	03-Dec-21	8015B	
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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 6
H213474-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 69.9-140 1120314 MS/ 03-Dec-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	

Surrogate: 1-Chlorooctane 107 % 44.3-133 1120310 MS 03-Dec-21 8015B

Surrogate: 1-Chlorooctadecane 110 % 38.9-142 1120310 MS 03-Dec-21 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 7
H213474-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.9 %		69.9-140	1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	03-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			116 %		44.3-133	1120310	MS	03-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			121 %		38.9-142	1120310	MS	03-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 8
H213474-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.7 %		69.9-140	1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			93.1 %		44.3-133	1120310	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			101 %		38.9-142	1120310	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 9
H213474-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 69.9-140 1120314 MS/ 03-Dec-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

Surrogate: 1-Chlorooctane 117 % 44.3-133 1120310 MS 04-Dec-21 8015B

Surrogate: 1-Chlorooctadecane 117 % 38.9-142 1120310 MS 04-Dec-21 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 10
H213474-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>		94.4 %		69.9-140	1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>		120 %		44.3-133	1120310	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>		121 %		38.9-142	1120310	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 11
H213474-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.4 %		69.9-140	1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			107 %		44.3-133	1120310	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			108 %		38.9-142	1120310	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 13
H213474-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	112		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.0 %		69.9-140	1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			103 %		44.3-133	1120310	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			106 %		38.9-142	1120310	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 14
H213474-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B
Toluene*	<0.050	0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B
Ethylbenzene*	<0.050	0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B
Total Xylenes*	<0.150	0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B
Total BTEX	<0.300	0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B

Surrogate: 4-Bromofluorobenzene (PID)	94.2 %	69.9-140	1120314	MS/	03-Dec-21	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B

Surrogate: 1-Chlorooctane	108 %	44.3-133	1120310	MS	04-Dec-21	8015B
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Surrogate: 1-Chlorooctadecane	114 %	38.9-142	1120310	MS	04-Dec-21	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 15
H213474-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			93.6 %		69.9-140	1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			110 %		44.3-133	1120310	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			114 %		38.9-142	1120310	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 16
H213474-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 69.9-140 1120314 MS/ 03-Dec-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

Surrogate: 1-Chlorooctane 109 % 44.3-133 1120310 MS 04-Dec-21 8015B

Surrogate: 1-Chlorooctadecane 112 % 38.9-142 1120310 MS 04-Dec-21 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 17
H213474-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	224		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.8 %		69.9-140	1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			105 %		44.3-133	1120310	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			107 %		38.9-142	1120310	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 18
H213474-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			96.0 %		69.9-140	1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			116 %		44.3-133	1120310	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			117 %		38.9-142	1120310	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 19
H213474-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.3 %		69.9-140	1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

Surrogate: 1-Chlorooctane			91.1 %		44.3-133	1120310	MS	04-Dec-21	8015B	
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Surrogate: 1-Chlorooctadecane			98.8 %		38.9-142	1120310	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 20
H213474-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	112		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	QR-03
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 69.9-140 1120314 MS/ 03-Dec-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

Surrogate: 1-Chlorooctane 115 % 44.3-133 1120310 MS 04-Dec-21 8015B

Surrogate: 1-Chlorooctadecane 131 % 38.9-142 1120310 MS 04-Dec-21 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 21
H213474-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.8 %		69.9-140	1120314	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			114 %		44.3-133	1120310	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			134 %		38.9-142	1120310	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 12
H213474-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 69.9-140 1120314 MS/ 03-Dec-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120310	MS	04-Dec-21	8015B	

Surrogate: 1-Chlorooctane 107 % 44.3-133 1120310 MS 04-Dec-21 8015B

Surrogate: 1-Chlorooctadecane 122 % 38.9-142 1120310 MS 04-Dec-21 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 22
H213474-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	QR-03
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	QR-03
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	QR-03
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	QR-03
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 69.9-140 1120315 MS/ 03-Dec-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	

Surrogate: 1-Chlorooctane 89.1 % 44.3-133 1120311 MS 03-Dec-21 8015B

Surrogate: 1-Chlorooctadecane 84.9 % 38.9-142 1120311 MS 03-Dec-21 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

FS - 21 - 23
H213474-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.2 %		69.9-140	1120315	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			82.9 %		44.3-133	1120311	MS	03-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			78.9 %		38.9-142	1120311	MS	03-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

NSW - 21 - 1
H213474-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	208		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.9 %		69.9-140	1120315	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			80.6 %		44.3-133	1120311	MS	03-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			77.1 %		38.9-142	1120311	MS	03-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

NSW - 21 - 2
H213474-24 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.6 %		69.9-140	1120315	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			87.0 %		44.3-133	1120311	MS	03-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			81.8 %		38.9-142	1120311	MS	03-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

NSW - 21 - 3
H213474-25 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.9 %		69.9-140	1120315	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			89.4 %		44.3-133	1120311	MS	03-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			86.6 %		38.9-142	1120311	MS	03-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

ESW - 21 - 1
H213474-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.0 %		69.9-140	1120315	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			99.7 %		44.3-133	1120311	MS	03-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			95.5 %		38.9-142	1120311	MS	03-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

ESW - 21 - 2
H213474-27 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	112		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.2 %		69.9-140	1120315	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	03-Dec-21	8015B	

Surrogate: 1-Chlorooctane			98.4 %		44.3-133	1120311	MS	03-Dec-21	8015B	
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Surrogate: 1-Chlorooctadecane			94.6 %		38.9-142	1120311	MS	03-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

ESW - 21 - 3
H213474-28 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.2 %		69.9-140	1120315	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			92.6 %		44.3-133	1120311	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			89.1 %		38.9-142	1120311	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

ESW - 21 - 4
H213474-29 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 69.9-140 1120315 MS/ 03-Dec-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	

Surrogate: 1-Chlorooctane 81.1 % 44.3-133 1120311 MS 04-Dec-21 8015B

Surrogate: 1-Chlorooctadecane 78.0 % 38.9-142 1120311 MS 04-Dec-21 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

ESW - 21 - 5
H213474-30 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.2 %		69.9-140	1120315	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.5 %		44.3-133	1120311	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			88.0 %		38.9-142	1120311	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

ESW - 21 - 6
H213474-31 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.6 %		69.9-140	1120315	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			83.2 %		44.3-133	1120311	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			80.2 %		38.9-142	1120311	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

ESW - 21 - 7
H213474-32 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.4 %		69.9-140	1120315	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			120 %		44.3-133	1120311	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			116 %		38.9-142	1120311	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

ESW - 21 - 8
H213474-33 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.4 %		69.9-140	1120315	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			95.2 %		44.3-133	1120311	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			90.9 %		38.9-142	1120311	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

SSW - 21 - 1
H213474-34 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 69.9-140 1120315 MS/ 03-Dec-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	

Surrogate: 1-Chlorooctane 87.1 % 44.3-133 1120311 MS 04-Dec-21 8015B

Surrogate: 1-Chlorooctadecane 85.8 % 38.9-142 1120311 MS 04-Dec-21 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

WSW - 21 - 2
H213474-35 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	03-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	03-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.5 %		69.9-140	1120315	MS/	03-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.8 %		44.3-133	1120311	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			86.0 %		38.9-142	1120311	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

WSW - 21 - 3
H213474-36 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	144		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	04-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.5 %		69.9-140	1120315	MS/	04-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			73.0 %		44.3-133	1120311	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			69.9 %		38.9-142	1120311	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

WSW - 21 - 4
H213474-37 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	112		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	04-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.3 %		69.9-140	1120315	MS/	04-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			74.5 %		44.3-133	1120311	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			71.4 %		38.9-142	1120311	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

WSW - 21 - 5
H213474-38 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	1120327	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	04-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.2 %		69.9-140	1120315	MS/	04-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			111 %		44.3-133	1120311	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			110 %		38.9-142	1120311	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

WSW - 21 - 6
H213474-39 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	1120327	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	04-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.2 %		69.9-140	1120315	MS/	04-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			94.9 %		44.3-133	1120311	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			92.0 %		38.9-142	1120311	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

WSW - 21 - 7
H213474-40 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	144		16.0	mg/kg	4	1120327	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120315	MS/	04-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120315	MS/	04-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.5 %		69.9-140	1120315	MS/	04-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			83.9 %		44.3-133	1120311	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			81.4 %		38.9-142	1120311	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

WSW - 21 - 8
H213474-41 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	1120327	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120313	MS/	04-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120313	MS/	04-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120313	MS/	04-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120313	MS/	04-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120313	MS/	04-Dec-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.6 %		69.9-140	1120313	MS/	04-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120309	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120309	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120309	MS	04-Dec-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			74.9 %		44.3-133	1120309	MS	04-Dec-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			70.2 %		38.9-142	1120309	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

WSW - 21 - 9
H213474-42 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	1120327	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120313	MS/	04-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120313	MS/	04-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120313	MS/	04-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120313	MS/	04-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120313	MS/	04-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 69.9-140 1120313 MS/ 04-Dec-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120309	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120309	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120309	MS	04-Dec-21	8015B	

Surrogate: 1-Chlorooctane 124 % 44.3-133 1120309 MS 04-Dec-21 8015B

Surrogate: 1-Chlorooctadecane 117 % 38.9-142 1120309 MS 04-Dec-21 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

WSW - 21 - 10**H213474-43 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	1120327	AC	03-Dec-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1120313	MS/	04-Dec-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1120313	MS/	04-Dec-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1120313	MS/	04-Dec-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1120313	MS/	04-Dec-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1120313	MS/	04-Dec-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.0 %		69.9-140	1120313	MS/	04-Dec-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1120309	MS	04-Dec-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1120309	MS	04-Dec-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1120309	MS	04-Dec-21	8015B	

Surrogate: 1-Chlorooctane			78.2 %		44.3-133	1120309	MS	04-Dec-21	8015B	
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Surrogate: 1-Chlorooctadecane			74.1 %		38.9-142	1120309	MS	04-Dec-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1120322 - 1:4 DI Water**Blank (1120322-BLK1)**

Prepared & Analyzed: 03-Dec-21

Chloride	ND	16.0	mg/kg
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LCS (1120322-BS1)

Prepared & Analyzed: 03-Dec-21

Chloride	432	16.0	mg/kg	400	108	80-120
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LCS Dup (1120322-BSD1)

Prepared & Analyzed: 03-Dec-21

Chloride	432	16.0	mg/kg	400	108	80-120	0.00	20
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Batch 1120325 - 1:4 DI Water**Blank (1120325-BLK1)**

Prepared & Analyzed: 03-Dec-21

Chloride	ND	16.0	mg/kg
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LCS (1120325-BS1)

Prepared & Analyzed: 03-Dec-21

Chloride	416	16.0	mg/kg	400	104	80-120
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LCS Dup (1120325-BSD1)

Prepared & Analyzed: 03-Dec-21

Chloride	416	16.0	mg/kg	400	104	80-120	0.00	20
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Batch 1120327 - 1:4 DI Water**Blank (1120327-BLK1)**

Prepared & Analyzed: 03-Dec-21

Chloride	ND	16.0	mg/kg
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LCS (1120327-BS1)

Prepared & Analyzed: 03-Dec-21

Chloride	432	16.0	mg/kg	400	108	80-120
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1120327 - 1:4 DI Water**LCS Dup (1120327-BSD1)**

Prepared & Analyzed: 03-Dec-21

Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1120313 - Volatiles**Blank (1120313-BLK1)**

Prepared: 03-Dec-21 Analyzed: 04-Dec-21

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		93.3	69.9-140			

LCS (1120313-BS1)

Prepared: 03-Dec-21 Analyzed: 04-Dec-21

Benzene	2.11	0.050	mg/kg	2.00		105	85.1-114			
Toluene	2.06	0.050	mg/kg	2.00		103	88.6-116			
Ethylbenzene	2.02	0.050	mg/kg	2.00		101	84.4-115			
m,p-Xylene	4.16	0.100	mg/kg	4.00		104	85.5-116			
o-Xylene	1.96	0.050	mg/kg	2.00		98.2	85.2-111			
Total Xylenes	6.12	0.150	mg/kg	6.00		102	86.2-113			
Surrogate: 4-Bromofluorobenzene (PID)	0.0460		mg/kg	0.0500		92.1	69.9-140			

LCS Dup (1120313-BSD1)

Prepared: 03-Dec-21 Analyzed: 04-Dec-21

Benzene	2.10	0.050	mg/kg	2.00		105	85.1-114	0.603	12.6	
Toluene	2.05	0.050	mg/kg	2.00		102	88.6-116	0.585	13.3	
Ethylbenzene	2.02	0.050	mg/kg	2.00		101	84.4-115	0.118	13.9	
m,p-Xylene	4.15	0.100	mg/kg	4.00		104	85.5-116	0.0551	13.6	
o-Xylene	1.97	0.050	mg/kg	2.00		98.4	85.2-111	0.140	14.1	
Total Xylenes	6.12	0.150	mg/kg	6.00		102	86.2-113	0.00774	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0466		mg/kg	0.0500		93.2	69.9-140			

Batch 1120314 - Volatiles**Blank (1120314-BLK1)**

Prepared & Analyzed: 03-Dec-21

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1120314 - Volatiles**Blank (1120314-BLK1)**

Prepared & Analyzed: 03-Dec-21

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		95.4	69.9-140			

LCS (1120314-BS1)

Prepared & Analyzed: 03-Dec-21

Benzene	1.87	0.050	mg/kg	2.00		93.3	85.1-114			
Toluene	1.84	0.050	mg/kg	2.00		92.0	88.6-116			
Ethylbenzene	1.83	0.050	mg/kg	2.00		91.5	84.4-115			
m,p-Xylene	3.82	0.100	mg/kg	4.00		95.5	85.5-116			
o-Xylene	1.84	0.050	mg/kg	2.00		91.9	85.2-111			
Total Xylenes	5.66	0.150	mg/kg	6.00		94.3	86.2-113			
Surrogate: 4-Bromofluorobenzene (PID)	0.0459		mg/kg	0.0500		91.7	69.9-140			

LCS Dup (1120314-BS1)

Prepared & Analyzed: 03-Dec-21

Benzene	2.08	0.050	mg/kg	2.00		104	85.1-114	10.9	12.6	
Toluene	2.03	0.050	mg/kg	2.00		102	88.6-116	10.0	13.3	
Ethylbenzene	2.01	0.050	mg/kg	2.00		100	84.4-115	9.13	13.9	
m,p-Xylene	4.12	0.100	mg/kg	4.00		103	85.5-116	7.54	13.6	
o-Xylene	1.95	0.050	mg/kg	2.00		97.4	85.2-111	5.76	14.1	
Total Xylenes	6.07	0.150	mg/kg	6.00		101	86.2-113	6.96	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0461		mg/kg	0.0500		92.2	69.9-140			

Batch 1120315 - Volatiles**Blank (1120315-BLK1)**

Prepared & Analyzed: 03-Dec-21

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		95.4	69.9-140			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 1120315 - Volatiles**LCS (1120315-BS1)**

Prepared & Analyzed: 03-Dec-21

Benzene	1.86	0.050	mg/kg	2.00		93.0	85.1-114		
Toluene	1.83	0.050	mg/kg	2.00		91.6	88.6-116		
Ethylbenzene	1.84	0.050	mg/kg	2.00		91.8	84.4-115		
m,p-Xylene	3.82	0.100	mg/kg	4.00		95.6	85.5-116		
o-Xylene	1.84	0.050	mg/kg	2.00		92.1	85.2-111		
Total Xylenes	5.66	0.150	mg/kg	6.00		94.4	86.2-113		
Surrogate: 4-Bromofluorobenzene (PID)	0.0470		mg/kg	0.0500		94.0	69.9-140		

LCS Dup (1120315-BS1)

Prepared & Analyzed: 03-Dec-21

Benzene	2.05	0.050	mg/kg	2.00		102	85.1-114	9.53	12.6
Toluene	2.00	0.050	mg/kg	2.00		99.8	88.6-116	8.58	13.3
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.3	84.4-115	7.79	13.9
m,p-Xylene	4.09	0.100	mg/kg	4.00		102	85.5-116	6.64	13.6
o-Xylene	1.96	0.050	mg/kg	2.00		98.2	85.2-111	6.45	14.1
Total Xylenes	6.05	0.150	mg/kg	6.00		101	86.2-113	6.58	13.4
Surrogate: 4-Bromofluorobenzene (PID)	0.0458		mg/kg	0.0500		91.6	69.9-140		

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 1120309 - General Prep - Organics**Blank (1120309-BLK1)**

Prepared: 03-Dec-21 Analyzed: 04-Dec-21

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	63.5		mg/kg	50.0		127	44.3-133		
Surrogate: 1-Chlorooctadecane	60.6		mg/kg	50.0		121	38.9-142		

LCS (1120309-BS1)

Prepared: 03-Dec-21 Analyzed: 04-Dec-21

GRO C6-C10	218	10.0	mg/kg	200		109	83.4-129		
DRO >C10-C28	209	10.0	mg/kg	200		104	79.3-136		
Total TPH C6-C28	427	10.0	mg/kg	400		107	85.3-130		
Surrogate: 1-Chlorooctane	46.9		mg/kg	50.0		93.7	44.3-133		
Surrogate: 1-Chlorooctadecane	45.8		mg/kg	50.0		91.5	38.9-142		

LCS Dup (1120309-BS1)

Prepared: 03-Dec-21 Analyzed: 04-Dec-21

GRO C6-C10	216	10.0	mg/kg	200		108	83.4-129	1.28	12.6
DRO >C10-C28	207	10.0	mg/kg	200		104	79.3-136	0.646	12.1
Total TPH C6-C28	423	10.0	mg/kg	400		106	85.3-130	0.968	11.6
Surrogate: 1-Chlorooctane	47.4		mg/kg	50.0		94.8	44.3-133		
Surrogate: 1-Chlorooctadecane	45.9		mg/kg	50.0		91.8	38.9-142		

Batch 1120310 - General Prep - Organics**Blank (1120310-BLK1)**

Prepared & Analyzed: 03-Dec-21

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	56.1		mg/kg	50.0		112	44.3-133		
Surrogate: 1-Chlorooctadecane	57.6		mg/kg	50.0		115	38.9-142		

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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1120310 - General Prep - Organics**LCS (1120310-BS1)**

Prepared & Analyzed: 03-Dec-21

GRO C6-C10	228	10.0	mg/kg	200		114	83.4-129			
DRO >C10-C28	230	10.0	mg/kg	200		115	79.3-136			
Total TPH C6-C28	459	10.0	mg/kg	400		115	85.3-130			
Surrogate: 1-Chlorooctane	56.5		mg/kg	50.0		113	44.3-133			
Surrogate: 1-Chlorooctadecane	58.7		mg/kg	50.0		117	38.9-142			

LCS Dup (1120310-BS1)

Prepared & Analyzed: 03-Dec-21

GRO C6-C10	226	10.0	mg/kg	200		113	83.4-129	0.892	12.6	
DRO >C10-C28	229	10.0	mg/kg	200		115	79.3-136	0.485	12.1	
Total TPH C6-C28	455	10.0	mg/kg	400		114	85.3-130	0.687	11.6	
Surrogate: 1-Chlorooctane	56.3		mg/kg	50.0		113	44.3-133			
Surrogate: 1-Chlorooctadecane	58.3		mg/kg	50.0		117	38.9-142			

Batch 1120311 - General Prep - Organics**Blank (1120311-BLK1)**

Prepared & Analyzed: 03-Dec-21

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	50.7		mg/kg	50.0		101	44.3-133			
Surrogate: 1-Chlorooctadecane	51.4		mg/kg	50.0		103	38.9-142			

LCS (1120311-BS1)

Prepared & Analyzed: 03-Dec-21

GRO C6-C10	217	10.0	mg/kg	200		109	83.4-129			
DRO >C10-C28	233	10.0	mg/kg	200		117	79.3-136			
Total TPH C6-C28	450	10.0	mg/kg	400		113	85.3-130			
Surrogate: 1-Chlorooctane	54.9		mg/kg	50.0		110	44.3-133			
Surrogate: 1-Chlorooctadecane	55.7		mg/kg	50.0		111	38.9-142			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI
Project Number: 212-MD-02099-991
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
06-Dec-21 09:37

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1120311 - General Prep - Organics**LCS Dup (1120311-BSD1)**

Prepared & Analyzed: 03-Dec-21

GRO C6-C10	197	10.0	mg/kg	200		98.6	83.4-129	9.58	12.6	
DRO >C10-C28	203	10.0	mg/kg	200		102	79.3-136	13.7	12.1	QR-04
Total TPH C6-C28	400	10.0	mg/kg	400		100	85.3-130	11.7	11.6	QR-04
Surrogate: 1-Chlorooctane	50.7		mg/kg	50.0		101	44.3-133			
Surrogate: 1-Chlorooctadecane	51.4		mg/kg	50.0		103	38.9-142			

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



Rush 24 Hour TAT

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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

Company Name: Tetra Tech		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Christian.Llud1@tetratech.com		Company: Tetra Tech					
Address: 901 W. WASH ST Ste 100		Attn: Christian Llud1					
City: Midland		Address:					
Phone #: 512-565-0190		City:					
Fax #: 512-565-0190		State:					
Project #: 212C-MD-02099-991		Zip:					
Project Name: KYGETA-01-02 EVGSAU Safe II: JE 1/2		Phone #:					
Project Location: Lea County, NM		Fax #:					
Sample Name: Thurston, John		SAMPLING					
FOR LAB USE ONLY		DATE		TIME			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL
H213474	FS-21-2	G	1	X			
1	FS-21-3						
2	FS-21-4						
3	FS-21-5						
4	FS-21-6						
5	FS-21-7						
6	FS-21-8						
7	FS-21-9						
8	FS-21-10						
9	FS-21-11						
10							
DATE: 12/3/21		RECEIVED BY: Jodi Henderson		CHECKED BY: [Signature]			
Time: 1045		Date: 12/2/21		Time: 0945			
Relinquished By: John Thurston		Relinquished By: [Signature]		Relinquished By: [Signature]			
Delivered By: (Circle One) 4.92		Sample Condition		COOL		INTACT	
Sampler - UPS - Bus - Other: 11.5		Cool		Yes		No	
Intact		Yes		No			
No		No		No			
REMARKS: * Project name changed as per Christian. 12/6/21		Phone Result: [] Yes [] No		Add'l Phone #: []		Fax Result: [] Yes [] No	
Add'l Fax #: []		Fax Result: [] Yes [] No		Add'l Fax #: []			

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



Rush 24 TAT

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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

Company Name: Tetra Tech		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Christian Lulu @tetratech.com		Company: Tetra Tech					
Address: 901 W. Wall St Ste 100		Attn: Christian Lulu					
City: Midland		Address:					
Phone #: 512-515-0190 Fax #:		City:					
Project #: 212CMB-02099-911 Project Owner: Tetra Tech		State:					
Project Name: VEET-0102 EVGSAU Satellite 1/2		Phone #:					
Project Location: Lea County, NM		Fax #:					
Sampler Name: Thurston, John		PRESERV		SAMPLING			
FOR LAB USE ONLY							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	DATE	TIME	
H23474							
11	FS-21-13	X	1	GROUNDWATER	12/2/21	0950	X TPH 8015 M
12	FS-21-14	X	1	WASTEWATER		0955	X BTEX 8021 B
13	FS-21-15	X	1	SOIL		1000	X Chlorides 300
14	FS-21-16	X	1	OIL		1005	
15	FS-21-17	X	1	SLUDGE		1010	
16	FS-21-18	X	1	OTHER :		1015	
17	FS-21-19	X	1	ACID/BASE:		1020	
18	FS-21-20	X	1	ICE / COOL		1025	
19	FS-21-21	X	1	OTHER :		1030	
20	FS-21-22	X	1			1035	

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Relinquished By: John Thurston Date: 12/8/21 Received By: Scott Menden Date: 12/8/21

Delivered By: (Circle One) 4.92 Sample Condition: Cool ☒ Intact ☐ Yes ☐ No ☐ Yes ☐ No CHECKED BY: (Signature)

Sampler - UPS - Bus - Other: -1.546 #113

Phone Result: ☐ Yes ☐ No Add'l Phone #:
 Fax Result: ☐ Yes ☐ No Add'l Fax #:
 REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



Rush 24 Hr TAT

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tetra Tech Project Manager: Christen Lundy @ TetraTech.com Address: 901 W. Wash St Ste. 100 City: Mdeland, State: TX Zip: 79701 Phone #: 512-565-0190 Fax #: Project #: 212C-MD02097-991 Project Owner: Project Name: Water at 02 EYGSAN Satellite 1/2 Project Location: Lea County, NM Trunkline Sampler Name: John Thurston		BILL TO P.O. #: Company: Tetra Tech Attn: Christen Lundy Address: City: State: Zip: Phone #: Fax #:	
FOR LAB USE ONLY Lab I.D. Sample I.D.		ANALYSIS REQUEST	
(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		MATRIX PRESERV SAMPLING	
DATE TIME		TPH 8015M BTEX 8021B Chloride 300	
12/13/14 21 22 23 24 25 26 27 28 29 30		12/21/22 1040 1045 1050 1055 1100 1105 1110 1115 1120 1125	
F3-21-22 F3-21-23 NSW-21-1 NSW-21-2 NSW-21-3 ESW-21-1 ESW-21-2 ESW-21-3 ESW-21-4 ESW-21-5		X X X X X X X X X X	
Relinquished By: John Thurston Date: 12/31/14 Time: 1245 Received By: <i>Christen Lundy</i> Date: Time: Relinquished By: Date: Time: Delivered By: (Circle One) 4.92 Sampler - UPS - Bus - Other: 4.46 #113 Sample Condition Cool Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Checked By: <i>Christen Lundy</i> Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS:		REMARKS:	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



24 Hour Rush TAT

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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

Company Name: Tetra Tech		P.O. #:		BILL TO		ANALYSIS REQUEST											
Project Manager: Christian Lundy @ Tetra Tech.com		Company: Tetra Tech															
Address: 901 W. Main St Ste 100		Attn: Christian Lundy															
City: Midland, TX State: TX Zip: 79701		Address:															
Phone #: 512-565-0190 Fax #:		City:															
Project #: 212C-MD-02099-991 Project Owner: Tetra Tech		State:															
Project Name: Freeport-02 EVGSAU Satellite 1/2		Zip:															
Project Location: Lea County, NM Truckline		Phone #:															
Sample Name: John Thurston		Fax #:															
FOR LAB USE ONLY																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.															
		# CONTAINERS															
H23474	ESW-21-6	G	1	GROUNDWATER		X	12/2/21	1130	X	TPT 8015 M	X						
				WASTEWATER													
				SOIL													
				OIL													
				SLUDGE													
				OTHER :													
				ACID/BASE:													
				ICE / COOL													
				OTHER :													
				H23474	ESW-21-7												
WASTEWATER																	
SOIL																	
OIL																	
SLUDGE																	
OTHER :																	
ACID/BASE:																	
ICE / COOL																	
OTHER :																	
H23474	ESW-21-8	G	1			GROUNDWATER		X	12/2/21	1140	X	Chloride 300	X				
				WASTEWATER													
				SOIL													
				OIL													
				SLUDGE													
				OTHER :													
				ACID/BASE:													
				ICE / COOL													
				OTHER :													
				H23474	SSW-21-1	G	1										
WASTEWATER																	
SOIL																	
OIL																	
SLUDGE																	
OTHER :																	
ACID/BASE:																	
ICE / COOL																	
OTHER :																	
H23474	WSW-21-2	G	1					GROUNDWATER		X	12/2/21	1150	X				
				WASTEWATER													
				SOIL													
				OIL													
				SLUDGE													
				OTHER :													
				ACID/BASE:													
				ICE / COOL													
				OTHER :													
				H23474	WSW-21-3	G	1	GROUNDWATER									
WASTEWATER																	
SOIL																	
OIL																	
SLUDGE																	
OTHER :																	
ACID/BASE:																	
ICE / COOL																	
OTHER :																	
H23474	WSW-21-4	G	1					GROUNDWATER		X	12/2/21	1200	X				
				WASTEWATER													
				SOIL													
				OIL													
				SLUDGE													
				OTHER :													
				ACID/BASE:													
				ICE / COOL													
				OTHER :													
				H23474	WSW-21-5	G	1	GROUNDWATER									
WASTEWATER																	
SOIL																	
OIL																	
SLUDGE																	
OTHER :																	
ACID/BASE:																	
ICE / COOL																	
OTHER :																	
H23474	WSW-21-6	G	1					GROUNDWATER		X	12/2/21	1210	X				
				WASTEWATER													
				SOIL													
				OIL													
				SLUDGE													
				OTHER :													
				ACID/BASE:													
				ICE / COOL													
				OTHER :													
				H23474	WSW-21-7	G	1	GROUNDWATER									
WASTEWATER																	
SOIL																	
OIL																	
SLUDGE																	
OTHER :																	
ACID/BASE:																	
ICE / COOL																	
OTHER :																	

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

Relinquished By: John Thurston Date: 12/3/21 Received By: Chad Barber Date: 12/4/21

Relinquished By: Date: Time: Received By: Date: Time:

Delivered By: (Circle One) 499 Sample Condition Cool Intact ☒ Yes ☐ No CHECKED BY: (Initials) #113

Sampler - UPS - Bus - Other: ☐ Yes ☐ No

+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

REMARKS: Phone Result: ☐ Yes ☐ No Add'l Phone #: Fax Result: ☐ Yes ☐ No Add'l Fax #:



Rush 29 hr TAY

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tetra Tech Project Manager: Christian.Llull@tetratech.com Address: 901 W. Wall St Ste 100 City: Midland State: TX Zip: 79701 Phone #: 512-565-0190 Fax #: Project #: 2125-MD-0289-991 Project Owner: Tetra Tech Project Name: VECTA OT-02 EVGSA Satellite 1/2 Project Location: Lea County, NM <i>Truvaline</i> Sample Name: John Thurston FOR LAB USE ONLY										P.O. #: Company: Tetra Tech Attn: Christian Llull Address: City: State: Zip: Phone #: Fax #:		BILL TO ANALYSIS REQUEST																																																																																		
Lab I.D. Sample I.D. <div style="display: flex; justify-content: space-between;"> <div> HA13494 41 42 43 44 </div> <div> WSN-21-8 WSN-21-9 WSN-21-10 </div> </div>										(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :				MATRIX PRESERV. SAMPLING																																																																																
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>DATE</th> <th>TIME</th> <th>TPH</th> <th>BTEX</th> <th>Chloride</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>12/2/12</td> <td>12:00</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>12/2/12</td> <td>12:25</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>12/2/12</td> <td>12:30</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>										DATE	TIME	TPH	BTEX	Chloride																	12/2/12	12:00	X	X	X																12/2/12	12:25	X	X	X																12/2/12	12:30	X	X	X																			
DATE	TIME	TPH	BTEX	Chloride																																																																																										
12/2/12	12:00	X	X	X																																																																																										
12/2/12	12:25	X	X	X																																																																																										
12/2/12	12:30	X	X	X																																																																																										

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Relinquished By: John Thurston **Date:** 12/3/12 **Received By:** *Speli Mendon* **Phone Result:** ☐ Yes ☐ No **Add'l Phone #:**
Relinquished By: **Date:** **Time:** **Received By:** **Fax Result:** ☐ Yes ☐ No **Add'l Fax #:**

Delivered By: (Circle One) *492* **Sample Condition:** ☐ Cool ☐ Intact ☐ Yes ☐ No **CHECKED BY:** *[Signature]* **REMARKS:**

Sampler - UPS - Bus - Other: *5113* **Sample Condition:** ☐ Cool ☐ Intact ☐ Yes ☐ No



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

December 28, 2021

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: VGEU 2801-02 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 12/22/21 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/22/2021	Sampling Date:	12/22/2021
Reported:	12/28/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 28 (H213699-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/23/2021	ND	2.00	100	2.00	3.20	QM-07, QR-03
Toluene*	<0.050	0.050	12/23/2021	ND	2.03	101	2.00	0.791	QR-03
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	2.07	104	2.00	1.35	QR-03
Total Xylenes*	<0.150	0.150	12/23/2021	ND	6.51	109	6.00	1.28	QR-03
Total BTX	<0.300	0.300	12/23/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3240	16.0	12/23/2021	ND	400	100	400	3.92	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	12/28/2021	ND	236	118	200	0.423	
DRO >C10-C28*	<10.0	10.0	12/28/2021	ND	259	130	200	2.85	
EXT DRO >C28-C36	<10.0	10.0	12/28/2021	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 130 % 54.5-135

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/22/2021	Sampling Date:	12/22/2021
Reported:	12/28/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 29 (H213699-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/23/2021	ND	2.00	100	2.00	3.20	
Toluene*	<0.050	0.050	12/23/2021	ND	2.03	101	2.00	0.791	
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	2.07	104	2.00	1.35	
Total Xylenes*	<0.150	0.150	12/23/2021	ND	6.51	109	6.00	1.28	
Total BTX	<0.300	0.300	12/23/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	12/23/2021	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	12/23/2021	ND	236	118	200	0.423	
DRO >C10-C28*	75.9	10.0	12/23/2021	ND	259	130	200	2.85	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 98.1 % 62-130

Surrogate: 1-Chlorooctadecane 98.5 % 54.5-135

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/22/2021	Sampling Date:	12/22/2021
Reported:	12/28/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 30 (H213699-03)

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	12/23/2021	ND	2.09	104	2.00	3.72		
Toluene*	<0.050	0.050	12/23/2021	ND	2.01	101	2.00	3.20		
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	1.92	96.0	2.00	3.72		
Total Xylenes*	<0.150	0.150	12/23/2021	ND	5.83	97.2	6.00	3.85		
Total BTEX	<0.300	0.300	12/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	12/23/2021	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	12/23/2021	ND	194	96.8	200	16.2	
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	212	106	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 96.3 % 62-130

Surrogate: 1-Chlorooctadecane 83.8 % 54.5-135

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/22/2021	Sampling Date:	12/22/2021
Reported:	12/28/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 31 (H213699-04)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/23/2021	ND	2.09	104	2.00	3.72		
Toluene*	<0.050	0.050	12/23/2021	ND	2.01	101	2.00	3.20		
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	1.92	96.0	2.00	3.72		
Total Xylenes*	<0.150	0.150	12/23/2021	ND	5.83	97.2	6.00	3.85		
Total BTX	<0.300	0.300	12/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3760	16.0	12/23/2021	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	12/23/2021	ND	194	96.8	200	16.2	
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	212	106	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 96.5 % 62-130

Surrogate: 1-Chlorooctadecane 84.2 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/22/2021	Sampling Date:	12/22/2021
Reported:	12/28/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 37 (H213699-05)

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	12/23/2021	ND	2.09	104	2.00	3.72		
Toluene*	<0.050	0.050	12/23/2021	ND	2.01	101	2.00	3.20		
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	1.92	96.0	2.00	3.72		
Total Xylenes*	<0.150	0.150	12/23/2021	ND	5.83	97.2	6.00	3.85		
Total BTEX	<0.300	0.300	12/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3240	16.0	12/23/2021	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	12/23/2021	ND	194	96.8	200	16.2		
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	212	106	200	1.71		
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND						

Surrogate: 1-Chlorooctane 98.9 % 62-130

Surrogate: 1-Chlorooctadecane 84.0 % 54.5-135

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Analytical Results For:

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

Received:	12/22/2021	Sampling Date:	12/22/2021
Reported:	12/28/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 39 (H213699-06)

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	12/23/2021	ND	2.09	104	2.00	3.72		
Toluene*	<0.050	0.050	12/23/2021	ND	2.01	101	2.00	3.20		
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	1.92	96.0	2.00	3.72		
Total Xylenes*	<0.150	0.150	12/23/2021	ND	5.83	97.2	6.00	3.85		
Total BTEx	<0.300	0.300	12/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	12/23/2021	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	12/23/2021	ND	194	96.8	200	16.2	
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	212	106	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 88.3 % 62-130

Surrogate: 1-Chlorooctadecane 75.5 % 54.5-135

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Analytical Results For:

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

Received:	12/22/2021	Sampling Date:	12/22/2021
Reported:	12/28/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 40 (H213699-07)

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	12/23/2021	ND	2.09	104	2.00	3.72		
Toluene*	<0.050	0.050	12/23/2021	ND	2.01	101	2.00	3.20		
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	1.92	96.0	2.00	3.72		
Total Xylenes*	<0.150	0.150	12/23/2021	ND	5.83	97.2	6.00	3.85		
Total BTEX	<0.300	0.300	12/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1620	16.0	12/23/2021	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	12/23/2021	ND	194	96.8	200	16.2	
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	212	106	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 90.7 % 62-130

Surrogate: 1-Chlorooctadecane 77.4 % 54.5-135

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Analytical Results For:

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

Received:	12/22/2021	Sampling Date:	12/22/2021
Reported:	12/28/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 41 (H213699-08)

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	12/23/2021	ND	2.13	107	2.00	4.98		
Toluene*	<0.050	0.050	12/23/2021	ND	2.02	101	2.00	5.41		
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	1.99	99.4	2.00	5.32		
Total Xylenes*	<0.150	0.150	12/23/2021	ND	6.17	103	6.00	5.59		
Total BTEx	<0.300	0.300	12/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/23/2021	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	12/23/2021	ND	194	96.8	200	16.2	
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	212	106	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 93.6 % 62-130

Surrogate: 1-Chlorooctadecane 80.3 % 54.5-135

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Analytical Results For:

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

Received:	12/22/2021	Sampling Date:	12/22/2021
Reported:	12/28/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 42 (H213699-09)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/23/2021	ND	2.13	107	2.00	4.98	
Toluene*	<0.050	0.050	12/23/2021	ND	2.02	101	2.00	5.41	
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	1.99	99.4	2.00	5.32	
Total Xylenes*	<0.150	0.150	12/23/2021	ND	6.17	103	6.00	5.59	
Total BTX	<0.300	0.300	12/23/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/23/2021	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	12/23/2021	ND	194	96.8	200	16.2	
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	212	106	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 95.8 % 62-130

Surrogate: 1-Chlorooctadecane 83.3 % 54.5-135

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Analytical Results For:

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

Received:	12/22/2021	Sampling Date:	12/22/2021
Reported:	12/28/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 43 (H213699-10)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/23/2021	ND	2.13	107	2.00	4.98	
Toluene*	<0.050	0.050	12/23/2021	ND	2.02	101	2.00	5.41	
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	1.99	99.4	2.00	5.32	
Total Xylenes*	<0.150	0.150	12/23/2021	ND	6.17	103	6.00	5.59	
Total BTX	<0.300	0.300	12/23/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1820	16.0	12/23/2021	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	12/23/2021	ND	194	96.8	200	16.2	
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	212	106	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 92.7 % 62-130

Surrogate: 1-Chlorooctadecane 78.9 % 54.5-135

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Analytical Results For:

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

Received:	12/22/2021	Sampling Date:	12/22/2021
Reported:	12/28/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 45 (H213699-11)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/23/2021	ND	2.13	107	2.00	4.98		
Toluene*	<0.050	0.050	12/23/2021	ND	2.02	101	2.00	5.41		
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	1.99	99.4	2.00	5.32		
Total Xylenes*	<0.150	0.150	12/23/2021	ND	6.17	103	6.00	5.59		
Total BTEx	<0.300	0.300	12/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1580	16.0	12/23/2021	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	12/23/2021	ND	194	96.8	200	16.2	
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	212	106	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 88.4 % 62-130

Surrogate: 1-Chlorooctadecane 77.6 % 54.5-135

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Analytical Results For:

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

Received:	12/22/2021	Sampling Date:	12/22/2021
Reported:	12/28/2021	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 46 (H213699-12)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/23/2021	ND	2.13	107	2.00	4.98	
Toluene*	<0.050	0.050	12/23/2021	ND	2.02	101	2.00	5.41	
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	1.99	99.4	2.00	5.32	
Total Xylenes*	<0.150	0.150	12/23/2021	ND	6.17	103	6.00	5.59	
Total BTX	<0.300	0.300	12/23/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	12/23/2021	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	12/23/2021	ND	208	104	200	2.37	
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	219	109	200	3.58	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 93.3 % 62-130

Surrogate: 1-Chlorooctadecane 97.4 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



Page 01 of 02

	Lab I.D.		Sample I.D.
--	-----------------	--	--------------------

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Relinquished By: _____ Received By: _____
 Date: _____

Received By:

Received By:

Sample
Coal

4/13

Fax written ch¹



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 02 of 02

Company Name: <u>Conoco Phillips</u> Project Manager: <u>Christina Hull</u> Address: <u>christina.hull@tetatech.com</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: NA Project #: <u>212C-MD-03099</u> Project Owner: _____ Project Name: <u>UGEL 2801-02 Future Release</u> Project Location: <u>Lea County, New Mexico</u> Sampler Name: <u>Steve Taylor</u> FOR LAB USE ONLY		P.O. #: _____ Company: <u>Tetra Tech</u> Attn: <u>Christina Hull</u> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. <u>212/3699</u> Sample I.D. <u>11</u> <u>ES-45</u> <u>12</u> <u>ES-46</u>		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: _____ ACID/BASE: _____ ICE / COOL OTHER: _____	
MATRIX PRESERV SAMPLING		DATE TIME <u>11-22-21</u> <u>1300</u> <u>12-22-21</u> <u>1400</u>	
TPH BTEX Chlorides Hold		ANALYSIS REQUEST	

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Relinquished By: Steve Taylor **Date:** 11-22-21 **Received By:** Christina Hull **Date:** 11-22-21
Relinquished By: _____ **Date:** _____ **Received By:** _____ **Date:** _____
Time: _____ **Time:** _____

Delivered By: (Circle One) 212.85 C-0.5c **Sample Condition**
Sampler: UPS - Bus - Other: _____ **Cool Intact**
☒ Yes ☐ No **CHECKED BY:** YB
☐ Yes ☐ No **Phone Results:** ☐ Yes ☐ No **Add'l Phone #:** _____
Fax Results: ☐ Yes ☐ No **Add'l Fax #:** _____
Email Results to: Christina Hull

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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

January 13, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: VGEU 2801-02 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/12/22 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/12/2022	Sampling Date:	01/12/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 28 (6') (H220124-01)

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	01/12/2022	ND	2.04	102	2.00	5.24		
Toluene*	<0.050	0.050	01/12/2022	ND	1.97	98.5	2.00	6.27		
Ethylbenzene*	<0.050	0.050	01/12/2022	ND	1.92	96.1	2.00	6.14		
Total Xylenes*	<0.150	0.150	01/12/2022	ND	5.88	98.0	6.00	5.69		
Total BTEX	<0.300	0.300	01/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 69.9-140

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	01/13/2022	ND	416	104	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	01/13/2022	ND	196	97.8	200	0.476	
DRO >C10-C28*	<10.0	10.0	01/13/2022	ND	197	98.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	01/13/2022	ND					

Surrogate: 1-Chlorooctane 98.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/12/2022	Sampling Date:	01/12/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 29 (6') (H220124-02)

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	01/12/2022	ND	2.04	102	2.00	5.24		
Toluene*	<0.050	0.050	01/12/2022	ND	1.97	98.5	2.00	6.27		
Ethylbenzene*	<0.050	0.050	01/12/2022	ND	1.92	96.1	2.00	6.14		
Total Xylenes*	<0.150	0.150	01/12/2022	ND	5.88	98.0	6.00	5.69		
Total BTEx	<0.300	0.300	01/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	01/13/2022	ND	416	104	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	01/13/2022	ND	196	97.8	200	0.476	
DRO >C10-C28*	<10.0	10.0	01/13/2022	ND	197	98.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	01/13/2022	ND					

Surrogate: 1-Chlorooctane 93.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/12/2022	Sampling Date:	01/12/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	VGEU 2801-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02099	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: FS - 31 (6') (H220124-03)

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	01/12/2022	ND	2.04	102	2.00	5.24		
Toluene*	<0.050	0.050	01/12/2022	ND	1.97	98.5	2.00	6.27		
Ethylbenzene*	<0.050	0.050	01/12/2022	ND	1.92	96.1	2.00	6.14		
Total Xylenes*	<0.150	0.150	01/12/2022	ND	5.88	98.0	6.00	5.69		
Total BTEx	<0.300	0.300	01/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	01/13/2022	ND	416	104	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	01/13/2022	ND	196	97.8	200	0.476	
DRO >C10-C28*	<10.0	10.0	01/13/2022	ND	197	98.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	01/13/2022	ND					

Surrogate: 1-Chlorooctane 98.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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APPENDIX E

Photographic Documentation



TETRA TECH, INC. PROJECT NO. 212C-MD-02099	DESCRIPTION	View east. Release area. Adjacent well (API # 30-025-33710) in the background.	1
	SITE NAME	VGEU 01-02 Flowline Release	3/25/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02099	DESCRIPTION	View southeast. Eastern portion of the scraped release area.	2
	SITE NAME	VGEU 01-02 Flowline Release	3/25/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02099	DESCRIPTION	View north. Release extent. Lease pad for adjacent well (API # 30-025-33710).	3
	SITE NAME	VGEU 01-02 Flowline Release	3/25/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02099	DESCRIPTION	View northwest. Release area and the source of the release on the flowline.	4
	SITE NAME	VGEU 01-02 Flowline Release	3/25/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02099	DESCRIPTION	View south. Excavation progress in northwest portion of the release footprint.	5
	SITE NAME	VGEU 01-02 Flowline Release	10/05/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02099	DESCRIPTION	View north-northeast. Incident release point and release area.	6
	SITE NAME	VGEU 01-02 Flowline Release	10/25/2021



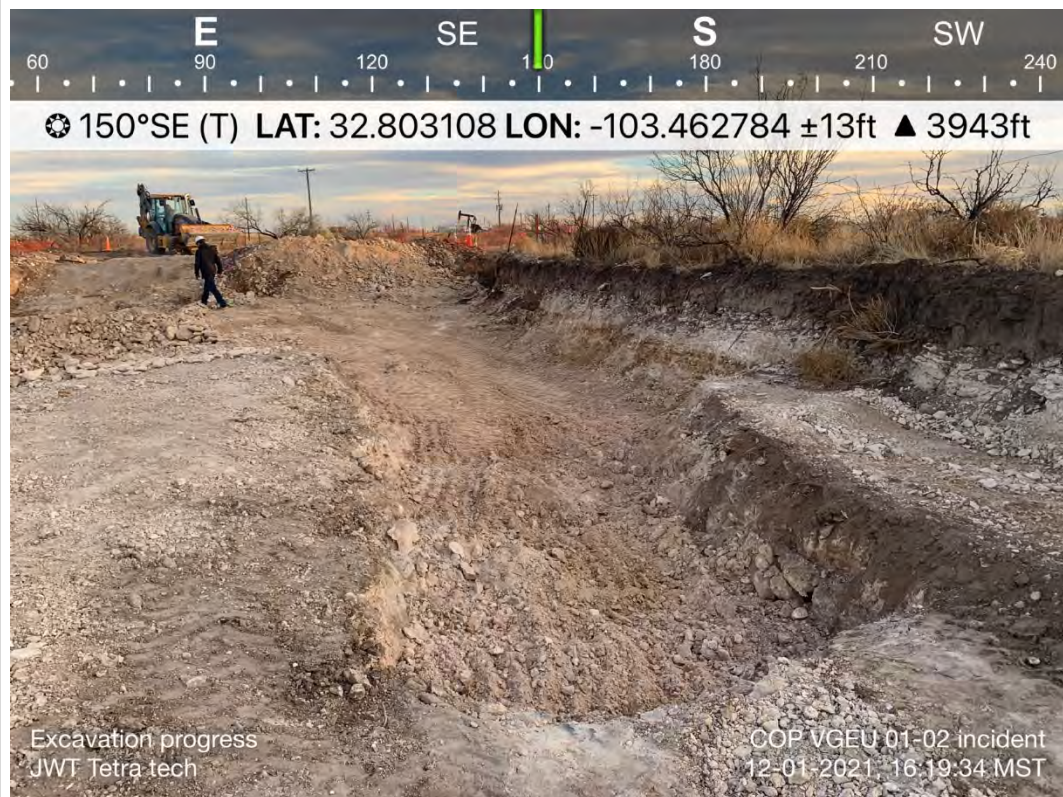
TETRA TECH, INC. PROJECT NO. 212C-MD-02099	DESCRIPTION	View northwest. Excavation progress in central portion of the release footprint.	7
	SITE NAME	VGEU 01-02 Flowline Release	10/07/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02099	DESCRIPTION	View north. Incident release footprint outside of the VGEU 01-02 release area.	8
	SITE NAME	VGEU 01-02 Flowline Release	10/25/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02099	DESCRIPTION	View south. Deeper excavation of the incident footprint in the preexisting 01-02 excavation area.	9
	SITE NAME	VGEU 01-02 Flowline Release	12/01/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02099	DESCRIPTION	View south of deeper excavation of the incident footprint in the preexisting 01-02 excavation area.	10
	SITE NAME	VGEU 01-02 Flowline Release	12/01/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02099	DESCRIPTION	View east. Repaired trunk line.	11
	SITE NAME	VGEU 01-02 Flowline Release	12/22/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02099	DESCRIPTION	View west. West portion of remediated area.	12
	SITE NAME	VGEU 01-02 Flowline Release	01/06/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02099	DESCRIPTION	View southwest. Western portion of the remediated area.	13
	SITE NAME	VGEU 01-02 Flowline Release	01/06/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02099	DESCRIPTION	View northeast. Central portion of remediated area.	14
	SITE NAME	VGEU 01-02 Flowline Release	01/06/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02099	DESCRIPTION	View east. Central portion of the remediated area.	15
	SITE NAME	VGEU 01-02 Flowline Release	01/20/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02099	DESCRIPTION	View east. Southeastern portion of the remediated area	16
	SITE NAME	VGEU 01-02 Flowline Release	01/20/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02099	DESCRIPTION	View west-northwest. Eastern portion of the remediated area.	17
	SITE NAME	VGEU 01-02 Flowline Release	01/20/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02099	DESCRIPTION	View southwest. Central portion of the remediated area.	18
	SITE NAME	VGEU 01-02 Flowline Release	02/07/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02099	DESCRIPTION	View northwest. Southwestern portion of the remediated area.	19
	SITE NAME	VGEU 01-02 Flowline Release	02/02/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02099	DESCRIPTION	View northwest. Western portion of backfilled excavation.	20
	SITE NAME	VGEU 01-02 Flowline Release	02/16/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02099	DESCRIPTION	View west. Central portion of backfilled excavation.	21
	SITE NAME	VGEU 01-02 Flowline Release	02/18/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02099	DESCRIPTION	View east-northeast. Southeastern portion of backfilled excavation.	22
	SITE NAME	VGEU 01-02 Flowline Release	02/18/2022

District I

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

District II

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

District III

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

District IV

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

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

CONDITIONS

Action 96538

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 96538
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NRM1930958355 VGEU 02-01 FLOWLINE LEAK, thank you. This closure is approved.	9/14/2022