Page 1 of 596

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 follow	ving items must be included in the closure report.
A scaled site and sampling diagram as described in 19.1:	5.29.11 NMAC
Photographs of the remediated site prior to backfill or pumust be notified 2 days prior to liner inspection)	hotos of the liner integrity if applicable (Note: appropriate OCD District office
■ Laboratory analyses of final sampling (Note: appropriate	e ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file may endanger public health or the environment. The acceptar should their operations have failed to adequately investigate a human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or respectively.	complete to the best of my knowledge and understand that pursuant to OCD rules certain release notifications and perform corrective actions for releases which are of a C-141 report by the OCD does not relieve the operator of liability and remediate contamination that pose a threat to groundwater, surface water, ce of a C-141 report does not relieve the operator of responsibility for regulations. The responsible party acknowledges they must substantially the conditions that existed prior to the release or their final land use in the OCD when reclamation and re-vegetation are complete.
Printed Name: Sam Widmer  DocuSigned by:	Title: Principal Program Manager
Signature: Sam Widmer	Date:Apr-05-2022
email:sam.Widmer@conocophillips.com	Telephone:281-206-5298
OCD Only	
Received by: Robert Hamlet	Date: 9/14/2022
	party of liability should their operations have failed to adequately investigate and rface water, human health, or the environment nor does not relieve the responsible s and/or regulations.
Closure Approved by: Robert Hamlet	Date: 9/14/2022
Printed Name: Robert Hamlet	Title: 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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ConocoPhillips

#### **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.

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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 KLNY0-210202-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

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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 NMOCD 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-feet 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

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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.

#### REMEDIATION 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

ConocoPhillips

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.

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 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 NMOCD request.

#### RECLAMATION

As prescribed in the Work Plan, the excavated areas were backfilled with topsoil form 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

ConocoPhillips

#### **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

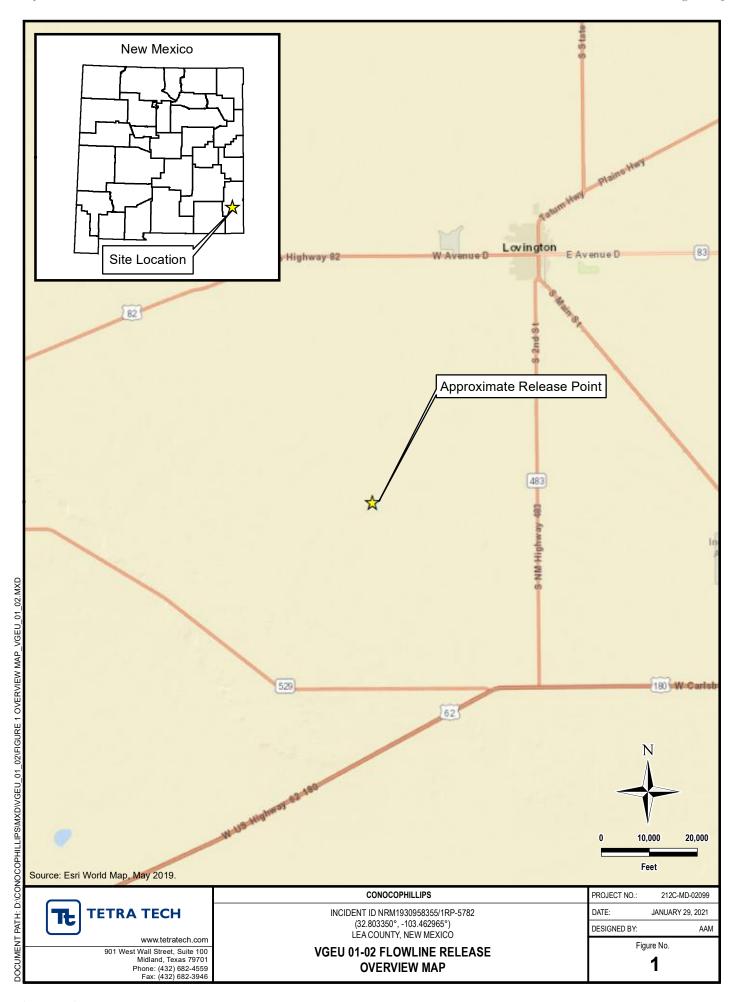
Appendix B - Site Characterization Data

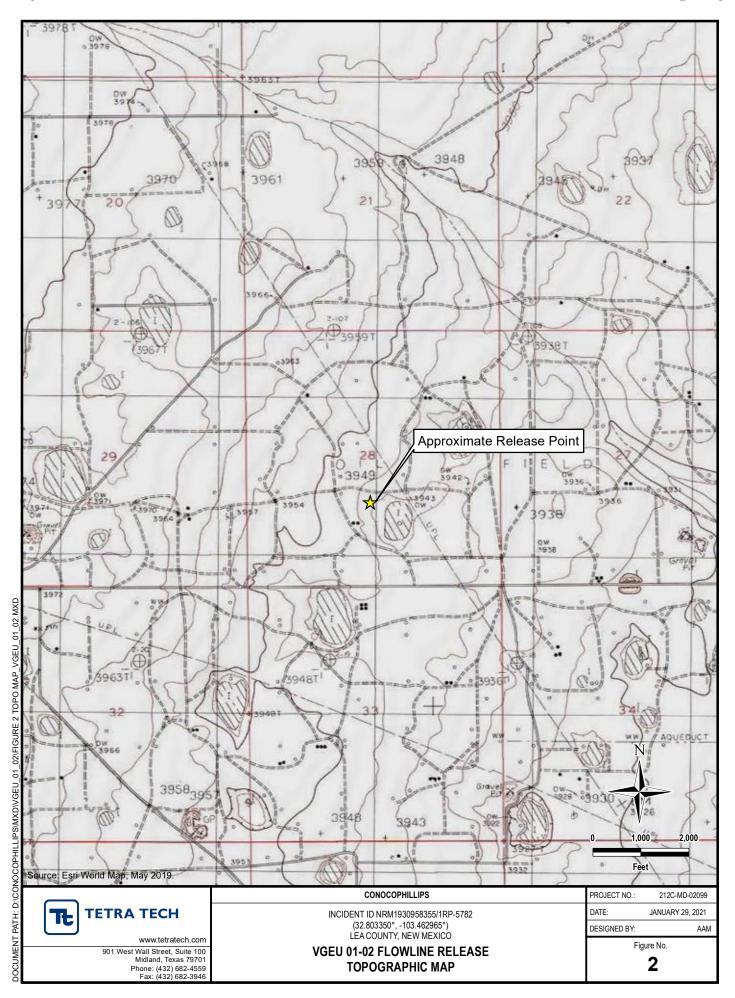
Appendix C – Regulatory Correspondence

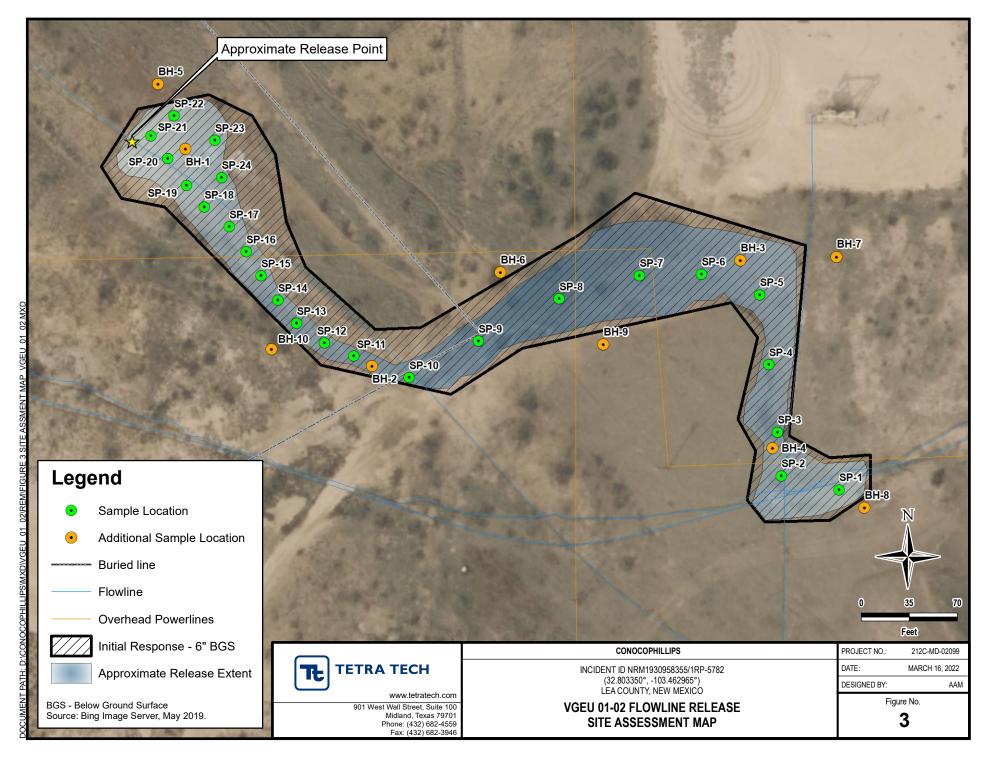
Appendix D - Laboratory Analytical Data

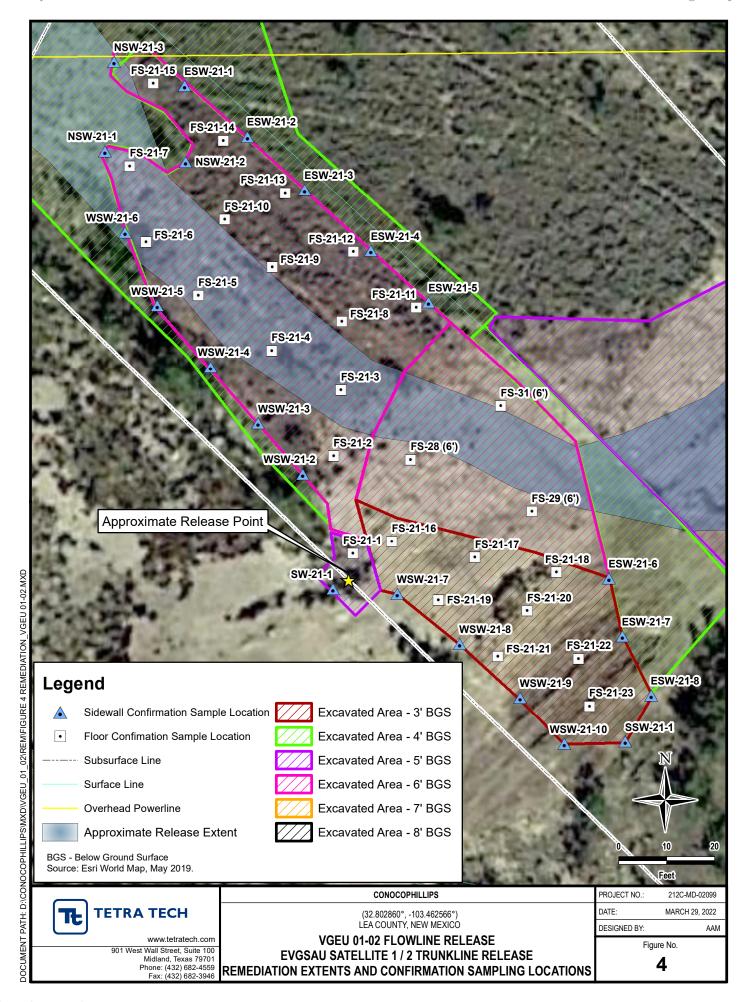
Appendix E – Photographic Documentation

## **FIGURES**

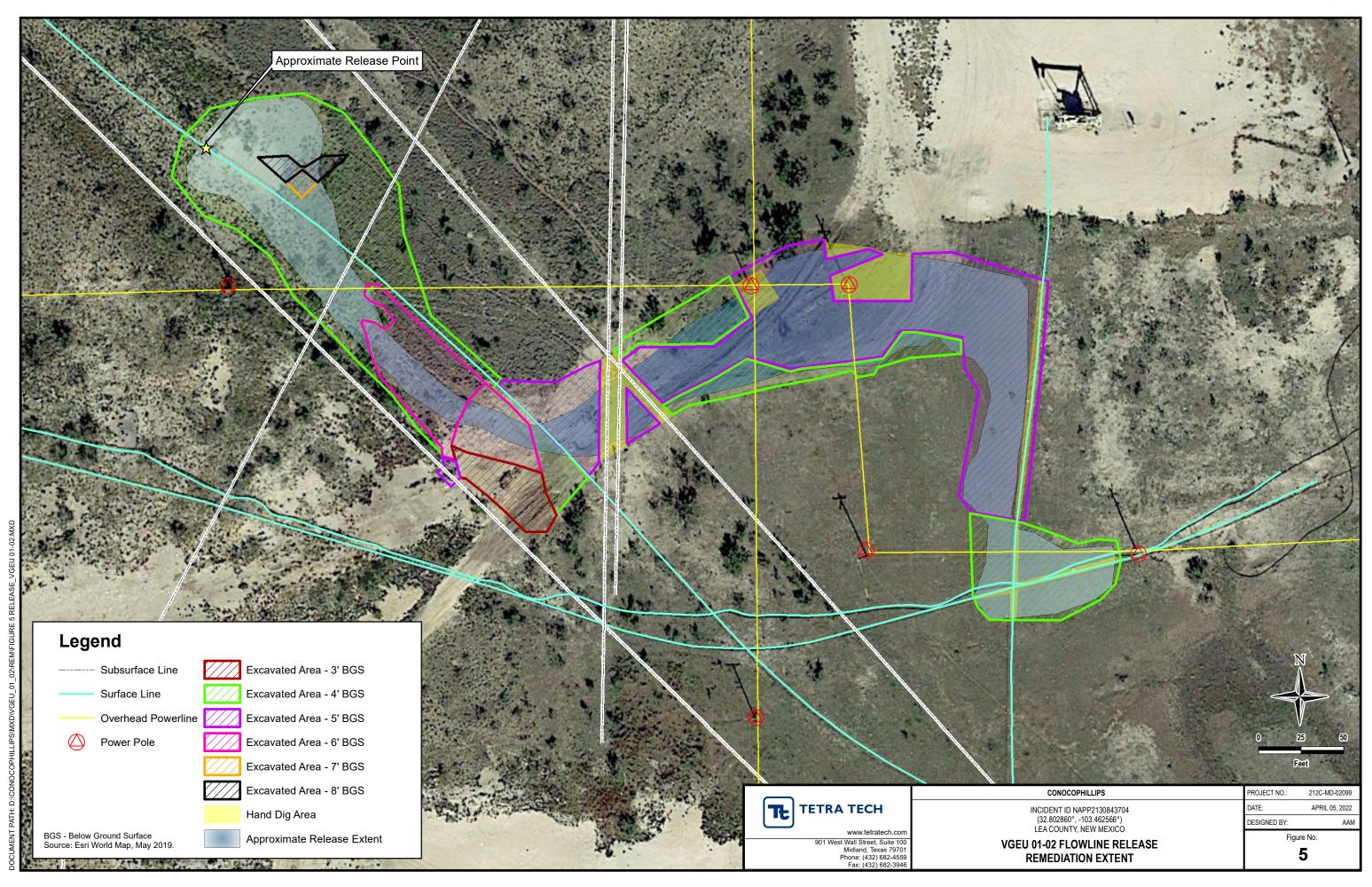


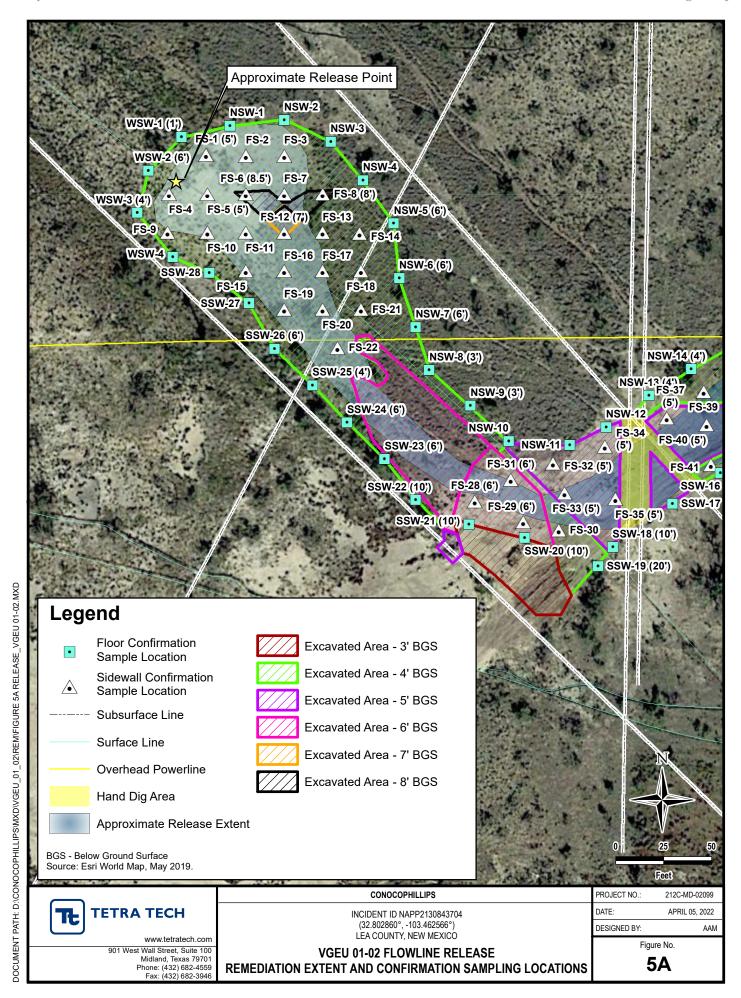


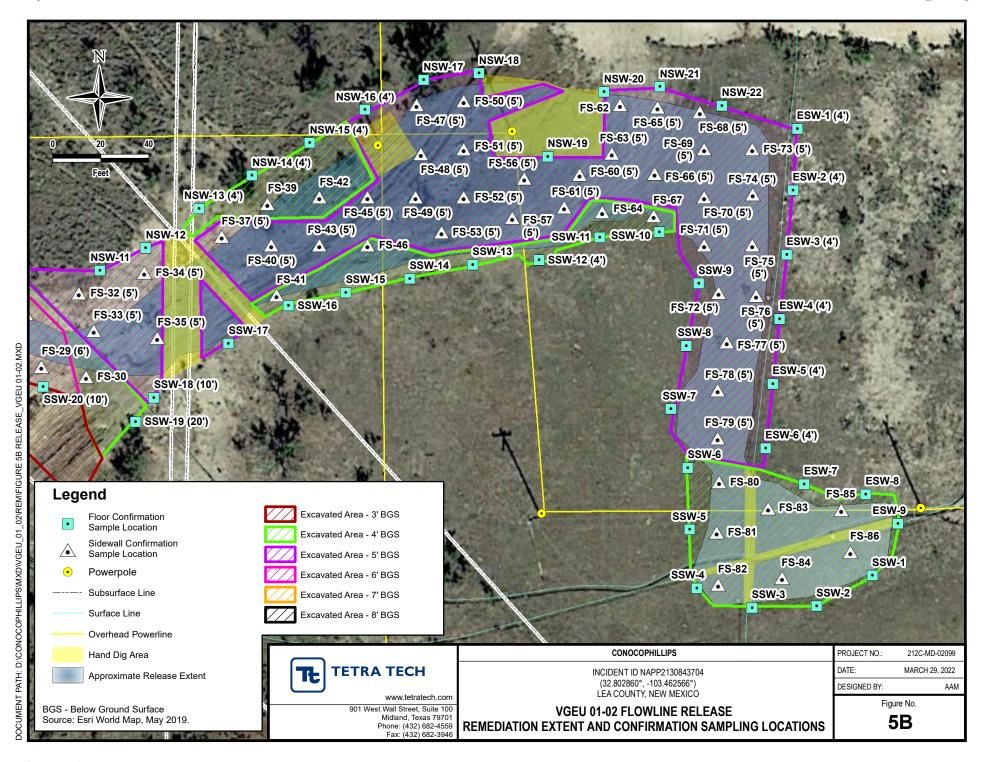




Received by OCD: 4/6/2022 3:06:55 PM







# 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 SM45000Cl-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.

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

											BTEX <sup>2</sup>								1	TPH <sup>3</sup>		
Sample ID	Sample Date	Sample Depth Interval	Field Screen	ning Results	Chloride <sup>1</sup>		Benzene		Toluene		Ethylbenzen		Total Xylene		Total BTEX	GRO <sup>4</sup>		DRO		ORO		Total TPH
Sample 15	Sample Date		Chloride	PID			Delizene		Toluene		Luiyibenzen		Total Aylene	3	TOTAL DIEX	C <sub>3</sub> - C <sub>10</sub>		C <sub>10</sub> - C <sub>28</sub>		C <sub>28</sub> - C <sub>40</sub>		(GRO+DRO+ORO
		ft. bgs	pp	om	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
		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	-		-		-		-		-		-	-		-		-		=
BH-1	3/25/2020	9-10	-	1.6	-		=		-		-		-		-	=		=		-		=
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	14-15	6620	1.8	-		=		-		-		-		-	=		=		-		=
		19-20	5770	2.1	-		=		-		-		-		-	=		=		-		=
		24-25	4310	2.3	-	<u> </u>	-		-		-		-	ш	-	-		-		-		-
		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	Ш	0.306	J	0.306
		0-1	1420	2.3	1580	T	< 0.00111		< 0.00557		< 0.00279		< 0.00725		ND	< 0.111		998	П	1830	Т	2828
		2-3	1380	4.5	1600	1	0.00205	J	0.00842	J	0.00535	J	< 0.0296		0.01582	< 0.114		850		1510	1	2360
BH-2 3/25	3/25/2020	3-4	1170	6.1	1890	1	< 0.00114		< 0.00570		< 0.00285		< 0.00741		ND	< 0.114		115		187	1	302
		4-5	1210	4.1	-		-		-		-		-		-	-		=		-	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
		0-1	>15000	8.2	22500	<del></del>	< 0.00117	Т	< 0.00583	Т	0.000641		< 0.00758		0.000641	0.0266		343	1 1	242	_	585
		2-3	11340	3.2	19900	+	< 0.00117		< 0.00587	-	< 0.00293	,	< 0.00758		ND	< 0.117	,	201		124	+	325
		3-4	1710	1.6	14100	+	< 0.00117		< 0.00587		< 0.00293		< 0.00703	$\blacksquare$	ND ND	< 0.117		283		184	+-	467
BH-3	3/25/2020	4-5	1210	1.6	-	+				-					-			-		-	+	-
		6-7	727	1.5	_	+	_		_	-	_		-			_		_			+	-
		19-20	220	1.8	108	+	< 0.00104		< 0.00522		< 0.00261		< 0.00679	H	ND	< 0.104		< 4.18		< 4.18	+	ND
	1			1	•	<del>+-</del>	•	<u>.                                    </u>	I.		I.					I.			1 1		<del>+-</del>	
		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
BH-4	3/25/2020	3-4	1560	1.1	1730	1	< 0.00111	<u> </u>	< 0.00557	_	< 0.00279	Ш	< 0.00725	Ш	ND	0.0346	BJ	8.09		6.13		14.3
		4-5	1210	1.1	-		-		-	_	-		-		-	-		-		-		-
	<u> </u>	6-7	489	1.2	23.8		< 0.00105		< 0.00523		< 0.00262		< 0.00680	Щ	ND	0.0239	ВJ	7.23	Ш	4.09	J	11.3
		0-1	98.1	1.2	17.1	В	< 0.00123		< 0.00613		< 0.00306		< 0.00797		ND	0.0501	ВJ	13.2		19.9		33.2
BU 5	2/25/2026	2-3	106	0.9	25.6	В	< 0.00123		< 0.00614		< 0.00307		< 0.00798		ND	0.0647	ВЈ	8.00	J3	17.8		25.9
BH-5	3/25/2020	3-4	121	0.9	25.7	В	< 0.00125		< 0.00623		< 0.00312		< 0.00810		ND	0.0437	ВЈ	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	ВЈ	2.52	J	4.07	J	6.69
		0-1	177	0.4	37.5	T	< 0.00107	T	< 0.00536	Г	< 0.00268		< 0.00697		ND	0.0404	ВЈ	5.66	TI	6.94	Ť	12.6
		2-3	184	0.4	10.3	ВЈ	< 0.00107	-	< 0.00536	1	< 0.00268	H	< 0.00697	H	ND ND	0.0404	BJ	4.77	+	4.43	-	9.23
BH-6	3/25/2020	3-4	124	0.9	7.52	BJ	< 0.00108	<u> </u>	< 0.00540	1	< 0.00270	H	< 0.00703	Н	ND ND	< 0.107	l l	3.15	+	2.16	BI	5.31
	I	4-5	117	1.1	7.52	6.1	< 0.00107	├	- 0.00555	+-	- 0.00266	$\vdash$	- 0.00093	$\vdash$	-		1	3.13	,	2.10	0.1	5.51

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#### TABLE 2

## SUMMARY OF ANALYTICAL RESULTS ADDITIONAL SOIL ASSESSMENT - 1RP-5782

#### CONOCOPHILLIPS

#### VGEU 01-02 FLOWLINE RELEASE LEA COUNTY, NM

											BTEX <sup>2</sup>								1	PH <sup>3</sup>		
Sample ID	Sample Date	Sample Depth Interval	Field Scree	ning Results	Chloride <sup>1</sup>		Benzene		Toluene		Ethylbenzen	•	Total Xvlene	,	Total BTEX	GRO⁴		DRO		ORO		Total TPH
Sample ID	Sample Date		Chloride	PID			Belizelle		Toluelle		Ethylbenzen	-	Total Aylene	3	TOTAL BIEN	C <sub>3</sub> - C <sub>10</sub>		C <sub>10</sub> - C <sub>28</sub>		C <sub>28</sub> - C <sub>40</sub>		(GRO+DRO+ORO)
		ft. bgs	pp	om	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
		0-1	206	1.2	62.6		< 0.00114		< 0.00568		< 0.00284		< 0.00739		ND	0.246	В	18.1		38.5		56.8
BH-7	3/25/2020	2-3	193	1.4	45.4		< 0.00114		< 0.00571		< 0.00286		< 0.00743		ND	0.0599	ВJ	15.0		24.9		40.0
ВП-7	3/23/2020	3-4	184	1.2	152		< 0.00114		< 0.00568		< 0.00284		< 0.00738		ND	0.0369	ВJ	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
		0-1	270	1.1	114		< 0.00115		< 0.00576	T	< 0.00288		< 0.00749	П	ND	0.0316	ВЈ	5.08	П	5.50		10.6
		2-3	262	0.9	295		< 0.00115		< 0.00573		< 0.00287		< 0.00745		ND	0.0315	ВЈ	6.67		7.58		14.3
BH-8	3/25/2020	3-4	257	1.0	69.9		< 0.00116		< 0.00579		< 0.00289		< 0.00752		ND	0.0326	ВJ	15.2		27.9		43.1
		4-5	156	1.3	25.2		< 0.00109		< 0.00546		< 0.00273		< 0.00709		ND	0.0679	ВЈ	3.55	J	6.84		10.5
	Ī	0-1	110	1.1	9.92	ВЈ	< 0.00111		< 0.00556	Τ	< 0.00278	П	< 0.00723	П	ND	0.0534	ВЈ	15.5	П	30.8	П	46.4
	0/05/0000	2-3	146	1.1	7.66	ВЈ	< 0.00105		< 0.00523		< 0.00261		< 0.00679		ND	0.0265	ВJ	4.21		6.41		10.6
BH-9	3/25/2020	3-4	137	0.9	7.52	ВЈ	< 0.00104		< 0.00522		< 0.00261		< 0.00679		ND	0.0306	ВJ	3.83	J	3.55	J	7.41
		4-5	123	0.8	7.88	ВЈ	< 0.00122		< 0.00612		< 0.00306		< 0.00795		ND	< 0.122		3.54	J	0.688	J	4.23
BU 40	2/25/2020	0-1	320	1.1	39.6		< 0.00107		< 0.00535	T	< 0.00267		< 0.00695	П	ND	0.0461	J	7.41	П	4.16	J	11.6
BH-10	3/25/2020	2-3	350	1.7	7.20	ВЈ	< 0.00108		< 0.00541		< 0.00271		< 0.00704		ND	0.0258	J	3.84	J	1.35	J	5.22

#### NOTES:

Feet Bold and italicized values indicate exceedance of proposed RRALs

 bgs
 Below ground surface
 1
 EPA Method 300.0

 ppm
 Parts per million
 2
 EPA Method 8260B

 mg/kg
 Milligrams per kilogram
 3
 EPA Method 8015

 HOLD
 Hold on sample analysis
 4
 EPA Method 8015D/GRO

Total Petroleum Hydrocarbons QUALIFIERS:

GRO Gasoline range organics B The same analyte is found in the associated blank.

DRO Diesel range organics J The identification of the analyte is acceptable; the reported value is an estimate.

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

ND Non-detect

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#### TABLE 3

## SUMMARY OF ANALYTICAL RESULTS SOIL REMEDIATION - NAPP2130843704

#### CONOCOPHILLIPS

#### EVGSAU SATELLITE 1/2 TRUNKLINE RELEASE LEA COUNTY, NM

			Field							BTEX <sup>2</sup>									TP	H³		
Sample ID	Sample Date	Sample Depth Interval	Screening Results	Chlorid	e¹	Renzer	ıe.	Toluene	,	Ethylbenz	ene	Total Xyle	nes	Total BTE	×	GRO		DRO		EXT DRO	)	Total TPH
			Chloride				_	10.00								C <sub>6</sub> - C <sub>10</sub>	_	> C <sub>10</sub> - C	_	> C <sub>28</sub> - C <sub>2</sub>	_	(GRO+DRO+EXT DRO
		ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
FS-21-1	11/10/2021	3		7,730		3.67		30.9		34.8		55.1		124		876		4,650		887		6,413
FS-21-1 (5')	11/18/2021	5		416		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.1		295		214		509
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	<del>                                     </del>	< 0.050		< 0.050	+-	< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		_
	12/2/2021	-	411			< 0.050							-									-
ESW-21-2		-	_	112				< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
ESW-21-3 ESW-21-4	12/2/2021		199	176		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		
	12/2/2021	-	264	192 160		< 0.050		< 0.050		< 0.050	-	< 0.150	-	< 0.300		< 10.0		< 10.0		< 10.0 < 10.0		-
ESW-21-5	12/2/2021	-	431			< 0.050		< 0.050		< 0.050	-	< 0.150	-	< 0.300		< 10.0		< 10.0				-
ESW-21-6	12/2/2021		333	160	+	< 0.050	-	< 0.050		< 0.050	1	< 0.150	-	< 0.300		< 10.0		< 10.0		< 10.0		
ESW-21-7	12/2/2021	-	326	160	-	< 0.050	1	< 0.050		< 0.050	1	< 0.150	-	< 0.300		< 10.0		< 10.0		< 10.0		-
ESW-21-8	12/2/2021		400	192	<u> </u>	< 0.050	<u> </u>	< 0.050		< 0.050	<u> </u>	< 0.150	<u> </u>	< 0.300		< 10.0		< 10.0	<u> </u>	< 10.0	<u> </u>	-
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		1,741
SW-21-1 (2')*	11/18/2021	-		352		< 0.050		< 0.050		< 0.050		< 0.150				< 10.0		312		222		534
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		47.6
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	1	< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
WSW-21-5	12/2/2021	-	330	48	1	< 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	1	< 0.050		< 0.050	1	< 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	1	< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
WSW-21-9	12/2/2021	-	491	160	1	< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
WSW-21-10	12/2/2021	_	480	192	1	< 0.050		< 0.050		< 0.050		< 0.150	<b>†</b>	< 0.300		< 10.0		< 10.0		< 10.0		_

NOTES:

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-B

2 EPA Method 8021B

EPA Method 8021B
 EPA Method 8015

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

 $\label{lem:condition} \textbf{Gold highlight represents soil horizons that were removed during deepening of excavation floors.}$ 

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

QUALIFIERS: QR-03

## SUMMARY OF ANALYTICAL RESULTS CONFIRMATION SAMPLING - NRM1930958355 CONOCOPHILLIPS

#### VGEU (28)01-02 FLOWLINE RELEASE LEA COUNTY, NM

											ВТЕХ	3,4								TPH <sup>5,</sup>	5		
		Sample Depth Interval	Field Screen	ning Results	Chlorid	e <sup>1,2</sup>											GR	0	DRO		OR	0	
Sample ID	Sample Date	Interval	Chloride	PID			Benze	ene	Ethylbe	nzene	Tolue	ene	Total X	lenes	Total E	STEX	C <sub>6</sub> -	C <sub>10</sub>	> C <sub>10</sub> -	C <sub>28</sub>	> C <sub>28</sub>	- C <sub>36</sub>	Total Ti
		ft. bgs	рр	om	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
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 < 0.050		< 0.0062 < 0.050		< 0.0062 < 0.050		< 0.0186 < 0.150		-		< 12.4 < 10.0		< 10.9 < 10.0		< 10.9 < 10.0		-
FS-6 (6') FS-6 (7')	1/12/2022	6 7	-	-	12,000		< 0.050		< 0.050		< 0.050		< 0.150		-		< 10.0		< 10.0		< 10.0		-
FS-6 (8')	1/13/2022	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		< 0.300		< 10.0		< 10.0		< 10.0		37.2
FS-7	10/7/2022	4	4,140	17.7	1,770		< 0.0051		< 0.0051		< 0.0051		< 0.0152				< 10.0		< 10.6		< 10.6		-
FS-8	10/15/2021	4	-,1-10	27.7	10,300		< 0.0056		< 0.0051		< 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.
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	QM-07.	< 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	08-03	< 0.050	QR-03	< 0.050	QR-03	< 0.150	QR-03	< 0.300		< 10.0		< 10.0		< 10.0		-
FS-28 (6') FS-29	1/12/2022	6	-	-	224 3.600		< 0.050		< 0.050 < 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 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		/3.:
FS-30	1/12/2022	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		₹ 0.030		. 0.030		₹0.030		C 0.130		₹0.300		₹ 10.0		10.0		₹ 10.0		
FS-32 (5')	1/28/2022	5	<u> </u>		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	1 1	< 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	4			1,580		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
FS-45 (5')	1/24/2022	5			48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
FS-46	12/22/2021	4			288		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
FS-47	12/16/2021	4			2,120		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
FS-47 (5')	1/24/2022	5			48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		
FS-48	12/16/2021	4			1,650		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		120		85.7		200
FS-48 (5')	1/24/2022	5			32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		1 -

## SUMMARY OF ANALYTICAL RESULTS CONFIRMATION SAMPLING - NRM1930958355

#### CONOCOPHILLIPS

#### VGEU (28)01-02 FLOWLINE RELEASE

LEA COUNTY, NM

									LEA CC	JOINT	BTEX	3,4								TPH <sup>5,6</sup>			
		Sample Depth	Field Screen	ning Results	Chloride	1,2											GRO	<u> </u>	DRO		OR	<u> </u>	
Sample ID	Sample Date	Interval	Chloride	PID			Benze	ene	Ethylbe	nzene	Tolue	ne	Total Xy	lenes	Total E	BTEX	C <sub>6</sub> - C		> C <sub>10</sub> -		> C <sub>28</sub> -	C <sub>36</sub>	Total TPH
		ft. bgs	рр	m	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
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') FS-52	1/25/2022	5			272 5.440		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0 < 10.0		< 10.0		-
FS-52 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') FS-62	1/31/2022	5			80 416		< 0.050 < 0.050		< 0.050 < 0.050	-	< 0.050 0.073		< 0.150 < 0.150		< 0.300		< 10.0 < 10.0		< 10.0 < 10.0		< 10.0 < 10.0		-
FS-62 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				224		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
FS-69 FS-69 (5')	12/16/2021	4			<b>9,200</b> 80.0		< 0.050		< 0.050		< 0.050		< 0.150 < 0.150		< 0.300		< 10.0		< 10.0		< 10.0		18.0
FS-70	1/31/2022	4			3,800		< 0.050		< 0.050 < 0.050		< 0.050 < 0.050		< 0.150		< 0.300		< 10.0 < 10.0		18.0		< 10.0		18.0
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																		
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') FS-75	1/31/2022	5			176 <b>4,560</b>		< 0.050		< 0.050 < 0.050		< 0.050		< 0.150 < 0.150		< 0.300		< 10.0 < 10.0		20.2 < 10.0		< 10.0		20.2
FS-75 (5')	1/19/2022	5			96.0		< 0.050		< 0.050		< 0.051		< 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				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 FS-81	1/18/2022 1/18/2022	4			304 320		< 0.050 < 0.050		< 0.050 < 0.050		< 0.050 < 0.050		< 0.150 < 0.150		< 0.300		< 10.0 < 10.0		< 10.0 < 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	4			320		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
FS-86	1/20/2022	4			288		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
NSW-1	10/4/2021		561	14.8	404		< 0.0055		< 0.0055		< 0.0055		< 0.0156				< 11.1		12.3		20.1		32.4
NSW-2	10/4/2021	-	771	7.6	425		< 0.0059		< 0.0059		< 0.0059		< 0.0176		-		< 11.7		38.6		50.6		89.2
NSW-3	10/4/2021		225	12.1	300		< 0.0047		< 0.0047		< 0.0047		< 0.0142		-		< 9.5		38.1		20.2		58.3

## SUMMARY OF ANALYTICAL RESULTS CONFIRMATION SAMPLING - NRM1930958355

#### CONOCOPHILLIPS

#### VGEU (28)01-02 FLOWLINE RELEASE

LEA COUNTY, NM

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		Sample Depth	Field Screen	ing Results		1.2			1		BTEX	( <sup>3,4</sup>	1		1		GRO		DRO	TPH <sup>5,6</sup>	OR		ı
Sample ID	Sample Date	Interval	Chloride	PID	Chloride	e**	Benze	ene	Ethylbe	nzene	Tolue	ene	Total Xy	lenes	Total E	STEX	C <sub>6</sub> - C		> C <sub>10</sub> -		> C <sub>28</sub> -		Total TPH
		ft. bgs	pp		mg/kg	0	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	0	mg/kg	Q	mg/kg	Q Q	mg/kg	Q.	mg/kg	Q.	mg/kg
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')* NSW-8	10/6/2021	-	430 585	0.1 5.9	342 1,120		< 0.0055		< 0.0055 < 0.0055		< 0.0055		< 0.0165		0.0367		< 11.0 < 11.1		22.8 < 59.6		45.9 < 59.6		68.7
NSW-8 (3')*	10/13/2021		331	5.9	237		< 0.0055		< 0.0055		< 0.0088		< 0.0279		0.0367		< 11.1		< 59.6 11.1		< 59.6 14.1		25.2
NSW-9	10/13/2021		2,240	0.1	927		< 0.0052		< 0.0052		< 0.0052		< 0.0151		-		< 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')* NSW-15	12/29/2021		170	15.3	48.0		< 0.050		< 0.050 < 0.0050		< 0.050		< 0.150		< 0.300		< 10.0 < 9.9		< 10.0 68.2		< 10.0 116		184
NSW-15 NSW-15 (4')*	10/21/2021	-	176	15.2	< 104 48.0		< 0.0050 < 0.050		< 0.0050		< 0.0064		< 0.0149 < 0.150		< 0.300		< 9.9		68.2 < 10.0		< 10.0		184
NSW-15 (4 )**	10/21/2021		573	32.9	48.0 < 110		0.0057		< 0.050		0.0356		0.0162		0.0575		< 10.0		< 10.0 45.3		< 10.0		107
NSW-16 (4')*	12/29/2021		3,3	32.3	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')* ESW-3	12/29/2022	-			16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
ESW-3 (4')*	12/16/2021		-	-	<b>4,960</b>		< 0.050		< 0.050 < 0.050		< 0.050		< 0.150 < 0.150		< 0.300		< 10.0 < 10.0		< 10.0 < 10.0		< 10.0		-
ESW-4	12/25/2022	-	-	-	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 ESW-9	1/18/2022	-			112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
	1/18/2022		1		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 SSW-3	1/18/2022	•			160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SSW-3 SSW-4	1/18/2022	-			304 80.0		< 0.050		< 0.050		< 0.050 < 0.050		< 0.150 < 0.150		< 0.300		< 10.0 < 10.0		< 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		< 0.150		< 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') SSW-13	1/20/2022	-			128 64.0		< 0.050		< 0.050		< 0.050 < 0.050		< 0.150 < 0.150		< 0.300		< 10.0 < 10.0		11.1		< 10.0		11.1
SSW-14	12/16/2021	:	76.4	16.9	109		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0 < 11.1		< 10.0 11.1		< 10.0		25.7
SSW-14 SSW-15	10/19/2021		293	11.2	246		< 0.0055		< 0.0056		< 0.0056		< 0.0167		-		< 11.1		17.4		22.0		39.4
SSW-16	10/19/2021		148	6.7	< 104		< 0.0054		< 0.0054		< 0.0054		< 0.0161		-		< 10.8		< 9.9		< 9.9		-
SSW-17	10/19/2021		107	14.0	117		< 0.0057		< 0.0057		< 0.0057		< 0.0170		-		< 11.4		< 10.5		12.5		12.5
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#### SUMMARY OF ANALYTICAL RESULTS

#### CONFIRMATION SAMPLING - NRM1930958355

#### CONOCOPHILLIPS

#### VGEU (28)01-02 FLOWLINE RELEASE

#### LEA COUNTY, NM

	Sample Denth Field Screening Results					BTEX <sup>3,4</sup>						TPH <sup>5,6</sup>											
Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chloride <sup>1,2</sup>		B		Este die e		Tales		T-4-1 V	Total Vulence		Total BTEX	GR	0	DR	0	OR	0	Total TPH
			Chloride	PID			Benze	Benzene Ethylbenzene		Toluene		Total Xylenes Total B		IEX	C <sub>6</sub> - 0	C <sub>6</sub> - C <sub>10</sub>		> C <sub>10</sub> - C <sub>28</sub>		> C <sub>28</sub> - C <sub>36</sub>			
		ft. bgs	рр	m	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
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

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 EPA Method 9056

Method SM4500Cl-B

EPA Method 8260B

Method 8021B

EPA Method 8015B

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:

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 Cond	ocoPhillips Con	npany	OGRID	OGRID 217817				
<u> </u>		o Fejervary		Contact	Telephone 432/2	210-7037			
Contact email g.fejervary@cop.com					Incident # (assigned by OCD)				
Contact mail	ing address	5735 SW 70		TX 79714					
		3733 344 70	oo Andrews,	17/10/14					
Location of Release Source									
Latitude 32.80340 Lo					Longitude103.46305				
Latitude			(NAD 83 in de	ecimal degrees to 5 dec	imal places)				
Site Name V	GEU 02-0	01 Flowline le	ak	Site Type	flowline				
Date Release			<u> ш</u>	API# (if ap					
		10/10/13							
Unit Letter	Section	Township	Range	Соι	inty				
K&J	28	17S	35E	Lea					
Conford Orano		Federal Tr	iibat 🖂 Deireata (	(Nama:		,			
Surface Owne	r; 🔽 State	rederal11	ioai     Private (	wame.					
			Nature an	d Volume of	Release				
	Materia	l(s) Refeased (Select al	I that apply and attac	h calculations or specif	c justification for the	volumes provided below)			
Crude Oi		Volume Release			Volume Recovered (bbls) 5.5				
✓ Produced	Water	Volume Release	d (bbls) 362		Volume Recovered (bbls) 174.5				
			ion of total disso water >10,000 m	lved solids (TDS)	lids (TDS) Yes No				
Condensa	ıte	Volume Release		5/11	Volume Recovered (bbls)				
Natural C	as	Volume Release	d (Mcf)		Volume Recovered (Mcf)				
Other (describe) Volume/Weight Released (provide units			le units)	Volume/Weig	th Recovered (provide units)				
Cause of Release Flowline rupture					······································				
		•							

Form C-14! Page 2 State of New Mexico
Oil Conservation Division

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

Was this a major	If YES, for what reason(s) does the respo	nsible party consider this a major release?					
release as defined by 19.15.29.7(A) NMAC?	it was more than 25 bbls.						
✓ Yes □ No							
M Yes   INO							
If YES, was immediate no	Lotice given to the OCD? By whom? To w	hom? When and by what means (phone, email, etc)?					
	_	·					
Yes, email sent to B	Bradford Billings, District 1 spill re	porting email address and Dylan Rose-Coss					
	Initial R	esponse					
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury							
☐ The source of the rele	ease has been stopped.						
	is been secured to protect human health and	the environment.					
Released materials ha	ave been contained via the use of berms or o	likes, absorbent pads, or other containment devices.					
All free liquids and re	ecoverable materials have been removed an	d managed appropriately.					
If all the actions described	d above have <u>not</u> been undertaken, explain	why:					
Per 19 15 29 8 B (4) NM	(AC the reconnsible party may commence t	emediation immediately after discovery of a release. If remediation					
has begun, please attach a	a narrative of actions to date. If remedial	efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation.					
		best of my knowledge and understand that pursuant to OCD rules and					
public health or the environn	ment. The acceptance of a C-141 report by the C	fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have					
		at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws					
and/or regulations.							
Printed Name: Gu	stavo Fejervary	Title: Environmental Coordinator					
Signature:	91	Date: _10/16/19					
a foionyanya	con.com						
email: g.iejervary@		Telephone: 432/210-7037					
OCD Only							
Received by: Ramona	a Marcus	Date: 11/5/2019					

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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 taler than 20 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?	☐ Yes 🗸 No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes 🗹 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)?	✓ Yes ☐ No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes 🗹 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?	☐ Yes 🗹 No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ✓ No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🗹 No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ✓ No			
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🗸 No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes 🗸 No			
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes 🗸 No			
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes 🗸 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.
<u> </u>
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
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.

Received by OCD: 4/6/2022 3:06:55 PM Form C-141 State of New Mexico Oil Conservation Division

	Page 31 of 5	90
t ID	NRM1930958355	

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. Title: Program Manager, Risk Management & Remediation Printed Name: Marvin Soriwei Date: 2/2/2021 email: marvin.soriwei@conocophillips.com Telephone: 8324862730 **OCD Only** Received by: Date: \_\_\_\_\_

	Page 32 of 59	6
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 con	firmed 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 complet rules and regulations all operators are required to report and/or file complete which may endanger public health or the environment. The accepta liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local limited Name:  Marvin Soriwei  Signature:	ertain release notifications and perform corrective actions for releases nce of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of						
email: marvin.soriwei@conocophillips.com  Telephone: 8324862730							
OCD Only							
Received by: Robert Hamlet  Approved Approved With Attached Conditions of	Date: 6/10/2021  Approval Denied Deferral Approved						
Signature: Robert Hamlet	Date: 6/10/2021						

Page 33 of 596

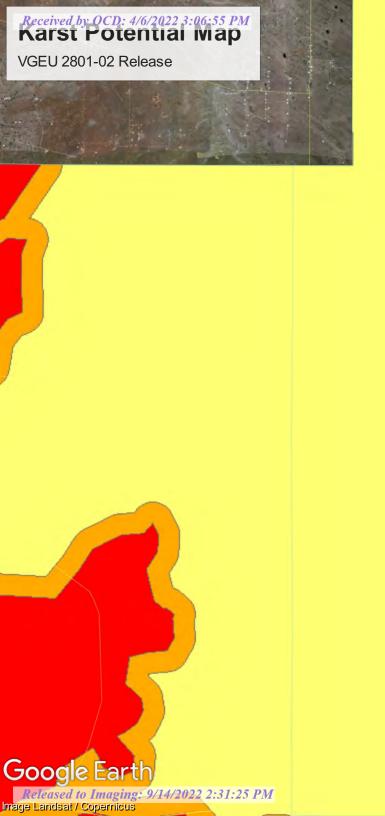
Incident ID	NRM1930958355
District RP	1RP-5782
Facility ID	fGRL0928155860
Application ID	pRM1930959194

## 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 19.15.2	29.11 NMAC	
Photographs of the remediated site prior to backfill or phomust be notified 2 days prior to liner inspection)	otos of the liner integrity if applicable (Note: appropriate OCD District office	
Laboratory analyses of final sampling (Note: appropriate C	DDC District office must be notified 2 days prior to final sampling)	
Description of remediation activities		
may endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or regrestore, reclaim, and re-vegetate the impacted surface area to the accordance with 19.15.29.13 NMAC including notification to the	c .	
	Title: Principal Program Manager	
Signature:  Sam Widner  5454CA5BAD33498  Sam.Widmer@conocophillips.com	Date:Apr-05-2022	
email: <del>Sam.Widmer@conocophillips.com</del>	Telephone: 281-206-5298	
OCD Only		
Received by:	Date:	
	arty of liability should their operations have failed to adequately investigate and ace water, human health, or the environment nor does not relieve the responsible nd/or regulations.	
Closure Approved by:	Date:	
Printed Name:	Title:	

## **APPENDIX B Site Characterization Data**





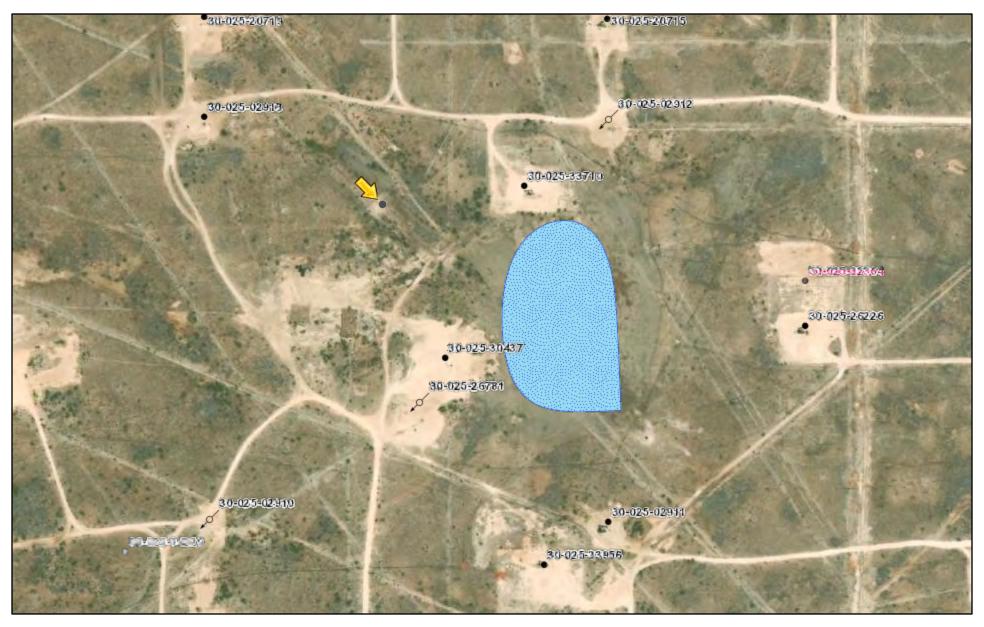
Lovington

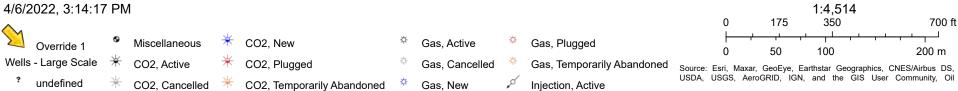
Lea

VGEU 2801-02 Release



### VGEU 01-02 FL Release





New Mexico Oil Conservation Division



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

644444

(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)

3630117\*

**POD** Sub-Depth Depth Water **POD Number** Code basin County 64 16 4 Sec Tws Rng **Distance Well Water Column** 

3 4 4 28 17S 35E

Average Depth to Water: 80 feet

614

Minimum Depth: 80 feet

140

80 feet Maximum Depth:

**Record Count: 1** 

L 05362

**UTMNAD83 Radius Search (in meters):** 

Radius: 800 Easting (X): 643947.281 Northing (Y): 3630478.162

\*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.

**USGS Home Contact USGS** Search USGS

Received by OCD: 4/6/2022 3:06:55 PM

**National Water Information System: Web Interface** 

ata Category:		Geographic Area:		
Groundwater	~	New Mexico	~	GC
				$\overline{}$

#### 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 aguifer (N100HGHPLN) national aguifer. This well is completed in the Ogallala Formation (1210GLL) local aquifer.

	)	u	to	ut	: f	or	m	ats
--	---	---	----	----	-----	----	---	-----

le of data	
-separated data	
ph of data	
select period	

Received by OCD: 4/6/2022 3:06:55 PM

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			
1961-02-17	,	D	62611		3903.26	NAVD88	1	Z			
1961-02-17	7	D	72019	46.21			1	Z			
1966-03-17	,	D	62610		3900.65	NGVD29	1	Z			
1966-03-17	,	D	62611		3902.12	NAVD88	1	Z			
.966-03-17	,	D	72019	47.35			1	Z			
971-02-12	2	D	62610		3900.61	NGVD29	1	Z			
.971-02-12	2	D	62611		3902.08	NAVD88	1	Z			
971-02-12	2	D	72019	47.39			1	Z			
976-03-17	,	D	62610		3900.40	NGVD29	1	Z			
976-03-17	,	D	62611		3901.87	NAVD88	1	Z			
976-03-17	,	D	72019	47.60			1	Z			
981-01-21		D	62610		3898.49	NGVD29	1	Z			
981-01-21		D	62611		3899.96	NAVD88	1	Z			
981-01-21		D		49.51			1	Z			
986-04-08		D	62610		3892.60	NGVD29	1	Z			
986-04-08	3	D	62611		3894.07	NAVD88	1	Z			
986-04-08	3	D		55.40			1				
990-12-20	)	D			3891.25	NGVD29	1	_			
.990-12-20		D	62611		3892.72	NAVD88	1				
.990-12-20		D	72019	56.75			1	_			
.996-02-08		D	62610		3889.70	NGVD29	1				
996-02-08		D	62611		3891.17	NAVD88	1	. S			
996-02-08		D	72019	58.30			1				
001-01-16		D			3888.03	NGVD29	1				
001-01-16		D		=0.0=	3889.50	NAVD88	1				
1001-01-16		D	72019	59.97	2007.40	NOVESS	1	. S	ucc	_	_
	23:16 UTC	m			3887.40	NGVD29	1	. S	USGS		S
	23:16 UTC			60.60	3888.87	NAVD88	1	. S	USGS		5
	23:16 UTC 17:00 UTC	m m		60.60	3885.92	NGVD29	1	. S			S S

2010-12-20 17:00 UTC	m	62611		3887.39	NAVD88	1	0	USGS	S	Α
2010-12-20 17:00 UTC	m	72019	62.08			1	0	USGS	S	Α

## 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	0	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	А	Approved for publication Processing and review completed.

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices

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?

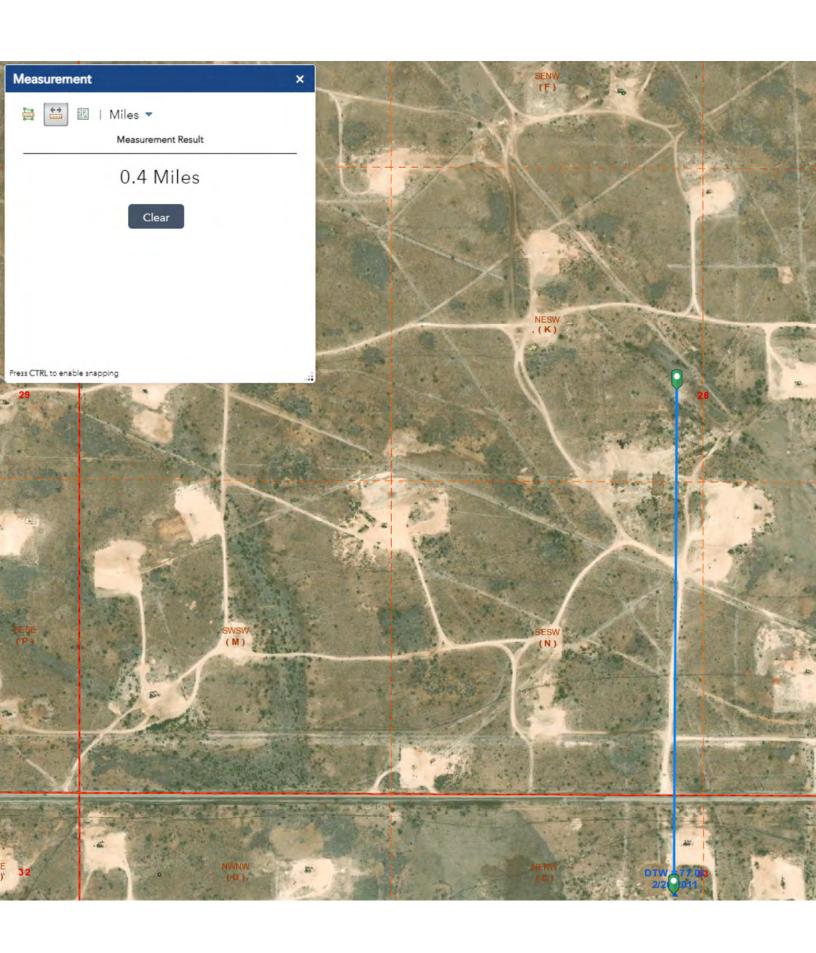
Page Contact Information: <u>New Mexico Water Data Maintainer</u>

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

0.29 0.25 nadww01



Received by OCD: 4/6/2022 3:06:55 PM



# 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@tetratech.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 a 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 < <a href="mailto:Robert.Hamlet@state.nm.us">Robert.Hamlet@state.nm.us</a>>

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

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

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

Application ID: 16718

Christian,

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

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

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@tetratech.com>

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

To: Hamlet, Robert, EMNRD < <a href="mailto:Robert.Hamlet@state.nm.us">Robert.Hamlet@state.nm.us</a>>

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

Cc: Dickerson, Ryan <Ryan.Dickerson@tetratech.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

Christian,

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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.

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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 < <a href="mailto:Christian.Llull@tetratech.com">Christian.Llull@tetratech.com</a>

Sent: Thursday, November 18, 2021 9:01 AM

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

**Cc:** Dickerson, Ryan < Ryan. Dickerson@tetratech.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@tetratech.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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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@tetratech.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@tetratech.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; Llull, Christian

Subject: Incident ID: nRM1930958355 - Confirmation Sampling

Date: Thursday, September 23, 2021 2:47:04 PM

Attachments: <u>image001.png</u>

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@tetratech.com

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8911 N. Capital of TX Hwy. | Bldg. 2, Ste 2310 | Austin, TX 78759 | tetratech.com

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# Llull, Christian

From: OCDOnline@state.nm.us

Sent: Thursday, June 10, 2021 10:20 AM

To: Llull, Christian

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

16718

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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)\*

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

That can be used.

From: Llull, Christian < Christian.Llull@tetratech.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

Get Outlook for iOS

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)\*

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

DTW = 77.03 bgs

From: Llull, Christian < Christian.Llull@tetratech.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)\*

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

Chad, per discussion today.

Christian

Get Outlook for iOS

From: Llull, Christian

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

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

Cc: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Dickerson, Ryan <Ryan.Dickerson@tetratech.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 < <u>mike.bratcher@state.nm.us</u>>; Dickerson, Ryan < <u>Ryan.Dickerson@tetratech.com</u>> **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 < <u>Robert.Hamlet@state.nm.us</u>> **Cc:** Dickerson, Ryan < <u>Ryan.Dickerson@tetratech.com</u>>

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.

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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 a 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 < <a href="mailto:Robert.Hamlet@state.nm.us">Robert.Hamlet@state.nm.us</a>>

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

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

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

Application ID: 16718

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Christian,

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Regards,

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EMNRD - Oil Conservation Division
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575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



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**Cc:** Dickerson, Ryan < <a href="mailto:Ryan.Dickerson@tetratech.com">Ryan.Dickerson@tetratech.com</a>; Enviro, OCD, EMNRD < <a href="mailto:OCD.Enviro@state.nm.us">OCD.Enviro@state.nm.us</a>; Bratcher,

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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 • 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/



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Sent: Thursday, November 18, 2021 9:01 AM

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

Cc: Dickerson, Ryan < Ryan. Dickerson@tetratech.com >; Enviro, OCD, EMNRD < OCD. Enviro@state.nm.us >; Bratcher,

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ID: 16718

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Cc: Dickerson, Ryan <Ryan.Dickerson@tetratech.com>; ocd.enviro@state.nm.us

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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@tetratech.com

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Sent: Thursday, June 10, 2021 10:20 AM

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

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

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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)\*

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

That can be used.

From: Llull, Christian < Christian.Llull@tetratech.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

Get Outlook for iOS

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)\*

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

DTW = 77.03 bgs

From: Llull, Christian < Christian.Llull@tetratech.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)\*

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

Chad, per discussion today.

Christian

Get Outlook for iOS

From: Llull, Christian

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

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

Cc: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Dickerson, Ryan <Ryan.Dickerson@tetratech.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 < <u>mike.bratcher@state.nm.us</u>>; Dickerson, Ryan < <u>Ryan.Dickerson@tetratech.com</u>> **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 < <u>Robert.Hamlet@state.nm.us</u>> **Cc:** Dickerson, Ryan < <u>Ryan.Dickerson@tetratech.com</u>>

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 a 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@tetratech.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: Llull, Christian < Christian.Llull@tetratech.com>

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

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

Cc: Dickerson, Ryan < Ryan. Dickerson@tetratech.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  $\rightarrow$  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@tetratech.com>

Cc: Dickerson, Ryan < Ryan. Dickerson@tetratech.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

Christian,

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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 < <a href="mailto:Christian.Llull@tetratech.com">Christian.Llull@tetratech.com</a>

Sent: Thursday, November 18, 2021 9:01 AM

To: Hamlet, Robert, EMNRD < <a href="mailto:Robert.Hamlet@state.nm.us">Robert.Hamlet@state.nm.us</a>>

Cc: Dickerson, Ryan < Ryan. Dickerson@tetratech.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 < <a href="mailto:Robert.Hamlet@state.nm.us">Robert.Hamlet@state.nm.us</a>>

Cc: Dickerson, Ryan <Ryan.Dickerson@tetratech.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@tetratech.com

#### Tetra Tech | Leading with Science® | OGA

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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@tetratech.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:

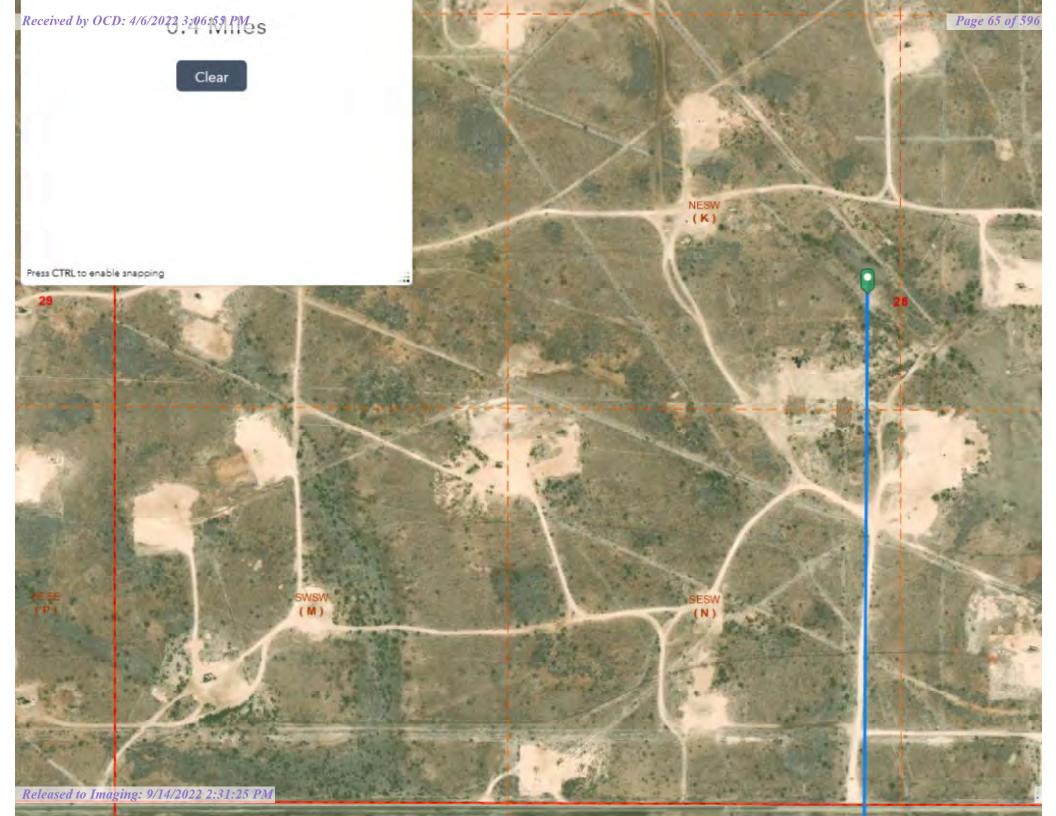
The Remediation Plan is approved with the following conditions: Surface to 4' below ground surface sidewall/floor samples need to comply with the strictest closure criteria limits 600 mg/kg for Chlorides and 100 mg/kg TPH. In the pasture area, 4 feet below the ground surface, soil contamination limits 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



# 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

This Wood

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**





#### **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**





## **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

## **REPORT OF LABORATORY ANALYSIS**



## **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
0382356002	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
0382356003	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
0382356004	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
0382356005	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
0382356006	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
0382356007	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
0382356008	NSW-5	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K

## **REPORT OF LABORATORY ANALYSIS**





## **SAMPLE ANALYTE COUNT**

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

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
0382356009	NSW-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
0382356010	NSW-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
0382356011	NSW-7 (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
0382356012	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
0382356013	WSW-3 (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
0382356014	WSW-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
0382356015	SSW-28	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K

## **REPORT OF LABORATORY ANALYSIS**





## **SAMPLE ANALYTE COUNT**

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

Lab ID	Sample ID	Method	Analyte Analysts Reporte		Laboratory
		EPA 9056	ALH	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

## **REPORT OF LABORATORY ANALYSIS**

(913)599-5665



# **ANALYTICAL RESULTS**

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

Sample: WSW-1	Lab ID: 603	82356001	Collected: 10/04/2	1 11:00	Received: 10	)/07/21 08:50 <b>I</b>	Matrix: Solid	
Results reported on a "dry weight	" basis and are adj	usted for p	ercent moisture, sa	mple si	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
015B Diesel Range Organics	Analytical Meth	nod: EPA 80	015B Preparation Me	thod: El	PA 3546			
5 5	Pace Analytica							
PH-DRO (C10-C28)	11.1	mg/kg	10.5	1	10/07/21 12:50	10/07/21 20:25	:	
PH-ORO (C28-C35)	15.0	mg/kg	10.5	1		10/07/21 20:25		
Surrogates	15.0	mg/kg	10.5	'	10/07/21 12.50	10/07/21 20.25	•	
-Tetracosane (S)	81	%	31-152	1	10/07/21 12:50	10/07/21 20:25	646-31-1	CL
-Terphenyl (S)	90	%	46-130	1		10/07/21 20:25		
asoline Range Organics	Analytical Metl	nod: EPA 80	015B Preparation Me	thod: El	PA 5035A/5030B			
	Pace Analytica							
PH-GRO	ND	mg/kg	11.4	1	10/07/21 11:50	10/08/21 14:56	i	
Surrogates								
-Bromofluorobenzene (S)	95	%	63-121	1	10/07/21 11:50	10/08/21 14:56	460-00-4	
260B MSV 5035A Low Level	Analytical Meth	nod: EPA 82	260B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica	l Services -	Kansas City					
enzene	ND	ug/kg	5.7	1	10/07/21 11:50	10/07/21 22:53	71-43-2	
thylbenzene	ND	ug/kg	5.7	1		10/07/21 22:53		
oluene	ND	ug/kg	5.7	1		10/07/21 22:53		
ylene (Total)	ND	ug/kg	17.1	1		10/07/21 22:53		
Surrogates		~g/g		•	.0,0.,200	. 0, 0., 2. 22.00	.000 _0 .	
oluene-d8 (S)	108	%	80-120	1	10/07/21 11:50	10/07/21 22:53	2037-26-5	
-Bromofluorobenzene (S)	98	%	83-119	1	10/07/21 11:50	10/07/21 22:53	460-00-4	
,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	10/07/21 11:50	10/07/21 22:53	2199-69-1	
ercent Moisture	Analytical Meth	nod: ASTM	D2974					
	Pace Analytica							
Percent Moisture	7.4	%	0.50	1		10/07/21 13:31		
056 IC Anions	Analytical Meth	nod: EPA 90	056 Preparation Meth	nod: EP/	A 9056			
	Pace Analytica							
Chloride	1520	mg/kg	108	10	10/07/21 14:32	10/07/21 20:46	16887-00-6	M1
Pamula: WCW 2	Lab ID: 602	92256002	Callastad: 10/01/2	1 11.05	Descived: 10	V07/24 00:E0	Matrice Calid	
Sample: WSW-2 Results reported on a "dry weight	Lab ID: 603		Collected: 10/04/2				Matrix: Solid	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
- arameters		Office	— Roport Limit		- Troparcu			
015B Diesel Range Organics			15B Preparation Me	thod: El	PA 3546			
	Pace Analytica	l Services -	Kansas City					
PH-DRO (C10-C28)	25.5	mg/kg	10.5	1	10/07/21 12:50	10/07/21 20:49	)	
PH-ORO (C28-C35)	42.3	mg/kg	10.5	1	10/07/21 12:50	10/07/21 20:49	)	
urrogates		5 5						
-Tetracosane (S)	71	%	31-152	1	10/07/21 12:50	10/07/21 20:49	646-31-1	CL
-Terphenyl (S)	77	%	46-130	1	10/07/21 12:50	10/07/21 20:40	92-94-4	

# **REPORT OF LABORATORY ANALYSIS**

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

	Eab 15. 003	82356002	Collected: 10/04/2	11:0	5 Received: 10	/07/21 08:50 N	fatrix: Solid	
Results reported on a "dry weight"	' basis and are adj	usted for per	rcent moisture, sa	mple s	size and any dilut	ions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
Gasoline Range Organics	Analytical Meth Pace Analytica		5B Preparation Me ansas City	thod: E	EPA 5035A/5030B			
TPH-GRO <b>Surrogates</b>	ND	mg/kg	9.4	1	10/07/21 11:50	10/08/21 15:42		
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 Meth Pace Analytica		DB Preparation Me ansas City	thod: E	EPA 5035A/5030B			
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) <b>Surrogates</b>	ND	ug/kg	14.2	1	10/07/21 11:50	10/07/21 23:14	1330-20-7	
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 Meth Pace Analytica							
Percent Moisture	5.1	%	0.50	1		10/07/21 13:31		
9056 IC Anions	Analytical Meth Pace Analytica		6 Preparation Meth ansas City	nod: EF	PA 9056			
9056 IC Anions Chloride				nod: EF		10/07/21 21:35	16887-00-6	
Chloride  Sample: WSW-2 (6')  Results reported on a "dry weight"  Parameters	Pace Analytica 368 Lab ID: 603i basis and are adj Results	I Services - K mg/kg 82356003 usted for per Units	ansas City 104 Collected: 10/04/2	10 11 11:10 <b>mple s</b> DF	10/07/21 14:32  Received: 10  size and any dilute  Prepared	/07/21 08:50 M	16887-00-6  Matrix: Solid  CAS No.	Qua
Chloride Sample: WSW-2 (6') Results reported on a "dry weight"	Pace Analytica 368 Lab ID: 603i basis and are adj Results	I Services - K mg/kg 82356003 Susted for per Units	Collected: 10/04/2 reent moisture, sa Report Limit  BB Preparation Me	10 11 11:10 <b>mple s</b> DF	10/07/21 14:32  Received: 10  size and any dilute  Prepared	/07/21 08:50 M	latrix: Solid	Qua
Chloride  Sample: WSW-2 (6')  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics	Pace Analytica 368  Lab ID: 603 basis and are adj Results Analytical Meth	I Services - K mg/kg 82356003 Susted for per Units	Collected: 10/04/2 reent moisture, sa Report Limit  BB Preparation Me	10 11 11:10 <b>mple s</b> DF	10/07/21 14:32  Received: 10  Size and any dilute  Prepared  EPA 3546	/07/21 08:50 M	latrix: Solid	Qua
Chloride  Sample: WSW-2 (6')  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)	Pace Analytica 368  Lab ID: 603i basis and are adj Results  Analytical Meth Pace Analytica	REPA 8015 I Services - K mg/kg REPA 8015 I Services - K	Collected: 10/04/2 rcent moisture, sa Report Limit 5B Preparation Meansas City	10 11 11:10 <b>mple s</b> DF	10/07/21 14:32  D Received: 10  Size and any dilute  Prepared  EPA 3546  10/07/21 12:50	/07/21 08:50 M i <b>ions.</b> Analyzed	latrix: Solid	Qua
Chloride  Sample: WSW-2 (6')  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)  Surrogates	Pace Analytica 368  Lab ID: 603i basis and are adj Results  Analytical Meth Pace Analytica 12.1	I Services - K mg/kg 82356003 usted for per Units nod: EPA 8018 I Services - K mg/kg	Collected: 10/04/2 rcent moisture, sa Report Limit 5B Preparation Meansas City 10	10 21 11:10 mple s DF ethod: E	10/07/21 14:32  D Received: 10  Size and any dilute  Prepared  EPA 3546  10/07/21 12:50 10/07/21 12:50	/07/21 08:50 M ions. Analyzed 10/07/21 20:57	fatrix: Solid  CAS No.	Qua-
Chloride  Sample: WSW-2 (6')  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35)  Surrogates n-Tetracosane (S)	Pace Analytica 368  Lab ID: 603i basis and are adj Results  Analytical Meth Pace Analytica 12.1 21.4	REPA 8018 I Services - K mg/kg  B2356003 Usted for per Units  Inod: EPA 8018 I Services - K mg/kg mg/kg	Collected: 10/04/2 reent moisture, sa Report Limit 5B Preparation Meansas City 10 10	10 et 11:10	10/07/21 14:32  D Received: 10  Size and any dilute Prepared  EPA 3546  10/07/21 12:50 10/07/21 12:50	/07/21 08:50 M ions. Analyzed  10/07/21 20:57 10/07/21 20:57	CAS No.	
Chloride  Sample: WSW-2 (6')  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28)	Pace Analytica 368  Lab ID: 6036  Besults  Analytical Method Pace Analytica 12.1 21.4  73 81	B2356003  usted for per Units  nod: EPA 8018 I Services - K mg/kg mg/kg % nod: EPA 8018	Collected: 10/04/2 recent moisture, sa Report Limit  5B Preparation Me ansas City  10 10 31-152 46-130  5B Preparation Me	10 21 11:10 mple s DF 21 11:10 11 11 11 11 11 11 11 11 11 11 11 11 1	10/07/21 14:32  D Received: 10  Size and any dilute Prepared  EPA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50	/07/21 08:50 M ions. Analyzed  10/07/21 20:57 10/07/21 20:57	CAS No.	
Chloride  Sample: WSW-2 (6')  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35)  Surrogates n-Tetracosane (S) p-Terphenyl (S)	Pace Analytica 368  Lab ID: 603: basis and are adj Results  Analytical Meth Pace Analytica 12.1 21.4 73 81  Analytical Meth	B2356003  usted for per Units  nod: EPA 8018 I Services - K mg/kg mg/kg % nod: EPA 8018	Collected: 10/04/2 recent moisture, sa Report Limit  5B Preparation Me ansas City  10 10 31-152 46-130  5B Preparation Me	10 21 11:10 mple s DF 21 11:10 11 11 11 11 11 11 11 11 11 11 11 11 1	10/07/21 14:32  D Received: 10  Size and any dilute Prepared  EPA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 EPA 5035A/5030B	/07/21 08:50 M ions. Analyzed  10/07/21 20:57 10/07/21 20:57	CAS No.	Qua

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(913)599-5665



# **ANALYTICAL RESULTS**

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

Sample: WSW-2 (6')	Lab ID: 603	02330003	Collected: 10/04/2	11:10	Received: 10	/07/21 08:50 N	latrix: Solid	
Results reported on a "dry weight	" basis and are ad	iusted for pe	ercent moisture, sa	mple s	size and any dilut	ions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
260B MSV 5035A Low Level	Analytical Metl	hod: EPA 820	60B Preparation Me	thod: E	EPA 5035A/5030B			
	Pace Analytica	I 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 ND	ug/kg ug/kg	4.6	1		10/07/21 23:34		
Toluene	ND ND	ug/kg ug/kg	4.6	1		10/07/21 23:34		
Xylene (Total)	ND	ug/kg ug/kg	13.9	1		10/07/21 23:34		
Surrogates	ND	ug/kg	13.3	'	10/07/21 11.50	10/07/21 23.34	1330-20-7	
Foluene-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 23:34		
,2-Dichlorobenzene-d4 (S)	99	%	80-120	1		10/07/21 23:34		
Percent Moisture	Analytical Metl	hod: ASTM E	02974					
	Pace Analytica							
Percent Moisture	4.8	%	0.50	1		10/07/21 13:31		
9056 IC Anions	Analytical Met	hod: FPA 90	56 Preparation Meth	nod: FF	PA 9056			
7000 TO 74110110	Pace Analytica				7.0000			
Chloride	374	mg/kg	104	10	10/07/21 14:32	10/07/21 21:55	16887-00-6	
•	Lab ID: 603 " basis and are ad		Collected: 10/04/2				latrix: Solid	
•							latrix: Solid  CAS No.	Qua
	Results	iusted for po Units	Report Limit	mple s	Prepared	ions.		Qua
Results reported on a "dry weight Parameters	Results Analytical Met	Units  Hod: EPA 80	Report Limit  15B Preparation Me	mple s	Prepared	ions.		Qua
Results reported on a "dry weight Parameters  B015B Diesel Range Organics	Results  Analytical Methodology Pace Analytica	Units  Hod: EPA 80	Report Limit  The Preparation Metansas City	DF ethod: E	Prepared PA 3546	Analyzed		Qua
Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28)	Results  Analytical Methodology Pace Analytica  12.3	Units  Hod: EPA 80  al Services -  mg/kg	Report Limit  15B Preparation Me Kansas City  10.3	DF thod: E	Prepared  PA 3546  10/07/21 12:50	Analyzed 10/07/21 21:06		Qua
Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35)	Results  Analytical Methodology Pace Analytica	Units  Hod: EPA 80	Report Limit  The Preparation Metansas City	DF ethod: E	Prepared PA 3546	Analyzed 10/07/21 21:06		Qua
Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates	Results  Analytical Methodology Pace Analytica  12.3  20.1	Units  Hood: EPA 80  al Services -  mg/kg  mg/kg	Report Limit  15B Preparation Me Kansas City  10.3 10.3	DF othod: E	Prepared  PA 3546  10/07/21 12:50 10/07/21 12:50	Analyzed  10/07/21 21:06 10/07/21 21:06	CAS No.	
Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates FINE Diesel Range Organics FINE DIESE	Results  Analytical Methodology Pace Analytica  12.3 20.1	Units  Units  Hod: EPA 80  al Services -  mg/kg  mg/kg  mg/kg	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152	DF ethod: E	Prepared  Prepared  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50	Analyzed  10/07/21 21:06 10/07/21 21:06 10/07/21 21:06	CAS No.	Qua
Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)	Analytical Meti Pace Analytica 12.3 20.1 80 90	Units  Hod: EPA 80  al Services -  mg/kg  mg/kg  %  %	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130	omple so DF othod: E	Prepared  Prepared  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50	Analyzed  10/07/21 21:06 10/07/21 21:06	CAS No.	Qua
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Analytical Meters Analytical M	Units  Hood: EPA 80  al Services -  mg/kg  mg/kg  %  hood: EPA 80	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me	omple so DF othod: E	Prepared  Prepared  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50	Analyzed  10/07/21 21:06 10/07/21 21:06 10/07/21 21:06	CAS No.	
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics	Analytical Metl Pace Analytica  80 90  Analytical Metl Pace Analytica	Units  Hod: EPA 80  al Services -  mg/kg  mg/kg  %  hod: EPA 80	Report Limit  15B Preparation Me Kansas City  10.3 10.3 10.3 31-152 46-130  15B Preparation Me Kansas City	thod: E	Prepared Prepared  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50	Analyzed  10/07/21 21:06 10/07/21 21:06 10/07/21 21:06 10/07/21 21:06	CAS No.	
Parameters  Bo15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO	Analytical Meters Analytical M	Units  Hood: EPA 80  al Services -  mg/kg  mg/kg  %  hood: EPA 80	Report Limit  15B Preparation Me Kansas City  10.3 10.3 10.3 31-152 46-130  15B Preparation Me Kansas City	omple so DF othod: E	Prepared Prepared  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50	Analyzed  10/07/21 21:06 10/07/21 21:06 10/07/21 21:06 10/07/21 21:06	CAS No.	
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates	Results  Analytical Methodology Pace Analytical 12.3 20.1 80 90  Analytical Methodology Pace Analytical ND	units  Units  Hod: EPA 80  al Services -  mg/kg  mg/kg  %  hod: EPA 80  al Services -  mg/kg	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me Kansas City  11.1	omple s  DF  othod: E  1  1  1  thod: E  thod: E	Prepared Prepared  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 EPA 5035A/5030B	Analyzed  10/07/21 21:06 10/07/21 21:06 10/07/21 21:06 10/07/21 21:06	CAS No. 646-31-1 92-94-4	
Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates	Analytical Metl Pace Analytica  80 90  Analytical Metl Pace Analytica	Units  Hod: EPA 80  al Services -  mg/kg  mg/kg  %  hod: EPA 80	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me Kansas City	thod: E	Prepared Prepared  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 EPA 5035A/5030B	Analyzed  10/07/21 21:06 10/07/21 21:06 10/07/21 21:06 10/07/21 21:06	CAS No. 646-31-1 92-94-4	
Parameters  Bo15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics	Results  Analytical Methodology Pace Analytical 12.3 20.1 80 90 Analytical Methodology Pace Analytical Methodology Pace Analytical Methodology Pace Analytical ND 97	Units  Hod: EPA 80: al Services - mg/kg mg/kg % hod: EPA 80: al Services - mg/kg	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me Kansas City  11.1	thod: E	Prepared  Prepared  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 11:50	Analyzed  10/07/21 21:06 10/07/21 21:06 10/07/21 21:06 10/07/21 21:06	CAS No. 646-31-1 92-94-4	
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates FTetracosane (S) Ferphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates FPH-GRO Surrogates FPH-GRO Surrogates FPH-GRO File Romofiluorobenzene (S)	Results  Analytical Methodology Pace Analytical 12.3 20.1 80 90 Analytical Methodology Pace Analytical Methodology Pace Analytical Methodology Pace Analytical ND 97	Units  Hod: EPA 80' al Services - mg/kg mg/kg  Mod: EPA 80' al Services - mg/kg mg/kg  Mod: EPA 80' al Services - mg/kg  Mod: EPA 80' al Services - mg/kg	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me Kansas City  11.1 63-121  60B Preparation Me	thod: E	Prepared  Prepared  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 11:50	Analyzed  10/07/21 21:06 10/07/21 21:06 10/07/21 21:06 10/07/21 21:06	CAS No. 646-31-1 92-94-4	
Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates 1-Tetracosane (S) 2-Terphenyl (S) Gasoline Range Organics  FPH-GRO Surrogates 1-Bromofluorobenzene (S) 8260B MSV 5035A Low Level	Results  Analytical Methodology Pace Analytica  12.3 20.1  80 90  Analytical Methodology Pace Analytical ND  97  Analytical Methodology Pace Analytical Methodology Pace Analytical Methodology Pace Analytical Methodology	units  Units  Hod: EPA 80  al Services -  mg/kg  mg/kg  %  hod: EPA 80  al Services -  mg/kg  mg/kg	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me Kansas City  11.1 63-121  60B Preparation Me Kansas City	thod: E	Prepared  Prepared  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 11:50 10/07/21 11:50 10/07/21 11:50	10/07/21 21:06 10/07/21 21:06 10/07/21 21:06 10/07/21 21:06 10/07/21 21:06 10/08/21 16:12	CAS No. 646-31-1 92-94-4	
Parameters  2015B Diesel Range Organics  EPH-DRO (C10-C28) EPH-ORO (C28-C35) Eurrogates E-Tetracosane (S) E-Terphenyl (S)  Gasoline Range Organics  EPH-GRO Eurrogates E-Bromofluorobenzene (S)  2260B MSV 5035A Low Level	Analytical Methodology Pace Analytical Methodology Analytical Methodology 80 90 Analytical Methodology Pace Analytical Methodology ND 97 Analytical Methodology Pace Analytical Methodology Pace Analytical Methodology Pace Analytical Methodology	Units  Hod: EPA 80  al Services -  mg/kg  mg/kg  %  hod: EPA 80  al Services -  mg/kg  mg/kg  hod: EPA 80  al Services -  mg/kg  whod: EPA 80  al Services -  mg/kg	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me Kansas City  11.1 63-121  60B Preparation Me Kansas City  5.5	thod: E	Prepared  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 11:50 10/07/21 11:50 10/07/21 11:50 PA 5035A/5030B	10/07/21 21:06 10/07/21 21:06 10/07/21 21:06 10/07/21 21:06 10/07/21 21:06 10/08/21 16:12 10/08/21 16:12	CAS No. 646-31-1 92-94-4 460-00-4	
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates FTetracosane (S) FTetracosane (S) FTetracosane (S) FTETRO Granics  FPH-GRO Surrogates FPH-GRO FINANCIA FINANCI	Results  Analytical Methodology Pace Analytical Analytical Methodology Analytical Methodology Analytical Methodology Pace Analytical ND 97 Analytical Methodology Pace Analytical ND ND ND	Units  Units  Hod: EPA 80  al Services -  mg/kg  mg/kg  %  Hod: EPA 80  al Services -  mg/kg  mg/kg  whod: EPA 80  al Services -  mg/kg  whod: EPA 82  ug/kg  ug/kg  ug/kg	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130 15B Preparation Me Kansas City  11.1 63-121 60B Preparation Me Kansas City  5.5 5.5	thod: E	Prepared  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 11:50 10/07/21 11:50 10/07/21 11:50 10/07/21 11:50 10/07/21 11:50 10/07/21 11:50	10/07/21 21:06 10/07/21 21:06 10/07/21 21:06 10/07/21 21:06 10/07/21 21:06 10/08/21 16:12 10/08/21 16:12	CAS No. 646-31-1 92-94-4 460-00-4 71-43-2 100-41-4	
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates FTEtracosane (S) FTETPHenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates FPH-GRO FILL FILL FILL FILL FILL FILL FILL FIL	Results  Analytical Methodology Pace Analytical  12.3 20.1 80 90  Analytical Methodology Pace Analytical ND 97  Analytical Methodology Pace Analytical ND ND ND ND ND	units  Units  Hod: EPA 80: al Services - mg/kg mg/kg %  Hod: EPA 80: al Services - mg/kg  whod: EPA 80: al Services - ug/kg ug/kg ug/kg ug/kg	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130 15B Preparation Me Kansas City  11.1 63-121 60B Preparation Me Kansas City  5.5 5.5	omple s  DF  thod: E  1  1  1  thod: E  thod: E	Prepared  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 11:50 10/07/21 11:50 10/07/21 11:50 10/07/21 11:50 10/07/21 11:50 10/07/21 11:50 10/07/21 11:50	10/07/21 21:06 10/07/21 21:06 10/07/21 21:06 10/07/21 21:06 10/07/21 21:06 10/08/21 16:12 10/08/21 16:12 10/07/21 23:54 10/07/21 23:54 10/07/21 23:54	CAS No.  646-31-1 92-94-4  460-00-4  71-43-2 100-41-4 108-88-3	
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates 1-Tetracosane (S) 1-Tetracosane (S) 1-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 1-Bromofluorobenzene (S)	Results  Analytical Methodology Pace Analytical Analytical Methodology Analytical Methodology Analytical Methodology Pace Analytical ND 97 Analytical Methodology Pace Analytical ND ND ND	Units  Units  Hod: EPA 80  al Services -  mg/kg  mg/kg  %  Hod: EPA 80  al Services -  mg/kg  mg/kg  whod: EPA 80  al Services -  mg/kg  whod: EPA 82  ug/kg  ug/kg  ug/kg	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130 15B Preparation Me Kansas City  11.1 63-121 60B Preparation Me Kansas City  5.5 5.5	thod: E	Prepared  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 11:50 10/07/21 11:50 10/07/21 11:50 10/07/21 11:50 10/07/21 11:50 10/07/21 11:50 10/07/21 11:50	10/07/21 21:06 10/07/21 21:06 10/07/21 21:06 10/07/21 21:06 10/07/21 21:06 10/08/21 16:12 10/08/21 16:12	CAS No.  646-31-1 92-94-4  460-00-4  71-43-2 100-41-4 108-88-3	

# **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: NSW-1	Lab ID: 603	82356004	Collected: 10/04/2	21 11:15	Received: 10	/07/21 08:50 N	latrix: Solid	
Results reported on a "dry weight	" basis and are adj	usted for p	ercent moisture, sa	mple s	ize and any dilut	ions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
2260B MSV 5035A Low Level	Analytical Meth Pace Analytica		60B Preparation Me Kansas City	ethod: E	PA 5035A/5030B			
Surrogates 4-Bromofluorobenzene (S) 1,2-Dichlorobenzene-d4 (S)	101 99	% %	83-119 80-120	1 1		10/07/21 23:54 10/07/21 23:54		
Percent Moisture	Analytical Meth	nod: ASTM [	D2974					
	Pace Analytica	l Services -	Kansas City					
Percent Moisture	6.0	%	0.50	1		10/07/21 13:31		
9056 IC Anions	Analytical Metl Pace Analytica		56 Preparation Metl Kansas City	nod: EP	A 9056			
Chloride	404	mg/kg	110	10	10/07/21 14:32	10/07/21 22:05	16887-00-6	
Sample: NSW-2	Lab ID: 603		Collected: 10/04/2				latrix: Solid	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
Parameters	Results	Units	Report Limit  15B Preparation Me	DF	Prepared		CAS No.	Qua
Parameters  3015B Diesel Range Organics	Results  Analytical Methods	Units	Report Limit  15B Preparation Me	DF	Prepared PA 3546		CAS No.	Qua
Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35)	Analytical Methodology Pace Analytica	Units nod: EPA 80 Il Services -	Report Limit  15B Preparation Me Kansas City	DF ethod: E	Prepared PA 3546 10/07/21 12:50	Analyzed	CAS No.	Qua
Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35)  Surrogates	Analytical Methodology Pace Analytical 38.6 50.6	Units  nod: EPA 80 Il Services - mg/kg mg/kg	Report Limit  15B Preparation Me Kansas City  10.6	DF ethod: E	Prepared  PA 3546  10/07/21 12:50 10/07/21 12:50	Analyzed  10/07/21 21:14 10/07/21 21:14	-	
Parameters  FO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Furrogates FI-Tetracosane (S)	Analytical Methodology Pace Analytical 38.6	Units nod: EPA 80 Il Services - mg/kg	Report Limit  15B Preparation Me Kansas City  10.6 10.6	DF ethod: E	Prepared  PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50	Analyzed 10/07/21 21:14	646-31-1	Qua
Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)	Analytical Methodology Pace Analytical 38.6 50.6 86 90 Analytical Methodology Analytical Methodology Packet Street	Units  nod: EPA 80 Il Services -  mg/kg  mg/kg  %  % nod: EPA 80	Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152 46-130  15B Preparation Me	ethod: E	Prepared PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50	Analyzed  10/07/21 21:14 10/07/21 21:14 10/07/21 21:14	646-31-1	
Parameters  3015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics	Results  Analytical Methodology Pace Analytica  38.6 50.6  86 90  Analytical Methodology Pace Analytical	Units  nod: EPA 80 Il Services - mg/kg mg/kg % % nod: EPA 80	Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152 46-130  15B Preparation Me	ethod: E	Prepared PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50	Analyzed  10/07/21 21:14 10/07/21 21:14 10/07/21 21:14	646-31-1	
Parameters  1015B Diesel Range Organics  17PH-DRO (C10-C28) 17PH-ORO (C28-C35) 17PH-ORO (C28-C35) 17PH-GRO  17PH-ORO (C38-C35) 17PH-ORO (C38-C35) 17PH-GRO	Analytical Methodology Pace Analytical 38.6 50.6 86 90 Analytical Methodology Analytical Methodology Packet Street	Units  nod: EPA 80 Il Services -  mg/kg  mg/kg  %  % nod: EPA 80	Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152 46-130  15B Preparation Me	ethod: E	Prepared  PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B	Analyzed  10/07/21 21:14 10/07/21 21:14 10/07/21 21:14	646-31-1	
Parameters  1015B Diesel Range Organics  17PH-DRO (C10-C28) 17PH-ORO (C28-C35) 15PH-ORO (C28-C35) 15PH-GRO (C28-C35) 15PH-GRO (C38-C35) 15PH-GRO (	Results  Analytical Methodology Pace Analytica  38.6 50.6  86 90  Analytical Methodology Pace Analytical	Units  nod: EPA 80 Il Services - mg/kg mg/kg % % nod: EPA 80	Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152 46-130  15B Preparation Me Kansas City	DF ethod: E	Prepared  PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B  10/07/21 11:50	Analyzed  10/07/21 21:14 10/07/21 21:14 10/07/21 21:14 10/07/21 21:14	646-31-1 92-94-4	
Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates I-Bromofluorobenzene (S)	Results  Analytical Methodology Pace Analytica 38.6 50.6 86 90 Analytical Methodology Pace Analytical Methodology ND 97	Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg % nod: EPA 80	Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152 46-130  15B Preparation Me Kansas City  11.7 63-121  60B Preparation Me	DF ethod: E	Prepared  PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B  10/07/21 11:50 10/07/21 11:50	Analyzed  10/07/21 21:14 10/07/21 21:14 10/07/21 21:14 10/07/21 21:14 10/08/21 16:27	646-31-1 92-94-4	
Parameters  3015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) n-Terphenyl (S) Gasoline Range Organics  TPH-GRO Surrogates 1-Bromofluorobenzene (S) 3260B MSV 5035A Low Level	Results  Analytical Methodology Pace Analytica  38.6 50.6  86 90  Analytical Methodology Pace Analytical ND 97  Analytical Methodology	Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg % nod: EPA 80	Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152 46-130  15B Preparation Me Kansas City  11.7 63-121  60B Preparation Me	DF ethod: E	Prepared  PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B  10/07/21 11:50 10/07/21 11:50 PA 5035A/5030B	Analyzed  10/07/21 21:14 10/07/21 21:14 10/07/21 21:14 10/07/21 21:14 10/08/21 16:27	646-31-1 92-94-4 460-00-4	
Parameters  3015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates 1-Tetracosane (S) 1-Terphenyl (S) Gasoline Range Organics  TPH-GRO Surrogates 1-Bromofluorobenzene (S) 3260B MSV 5035A Low Level	Results  Analytical Meth Pace Analytical 38.6 50.6 86 90  Analytical Meth Pace Analytical ND 97  Analytical Meth Pace Analytical Meth P	Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg %	Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152 46-130  15B Preparation Me Kansas City  11.7 63-121  60B Preparation Me Kansas City	DF ethod: E  1 1 1 1 1 1 1 thod: E	Prepared  PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B  10/07/21 11:50 PA 5035A/5030B  10/07/21 11:50 PA 5035A/5030B	Analyzed  10/07/21 21:14 10/07/21 21:14 10/07/21 21:14 10/07/21 21:14 10/08/21 16:27 10/08/21 16:27	646-31-1 92-94-4 460-00-4 71-43-2	
Parameters  2015B Diesel Range Organics  EPH-DRO (C10-C28) EPH-ORO (C28-C35) EPH-ORO (C28-C35) EPH-ORO (Seasoline Range Organics  EPH-GRO Eurrogates E-Bromofluorobenzene (S)  260B MSV 5035A Low Level  Benzene Ethylbenzene	Results  Analytical Meth Pace Analytical 38.6 50.6 86 90  Analytical Meth Pace Analytical ND 97  Analytical Meth Pace Analytical ND	Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg %	Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152 46-130  15B Preparation Me Kansas City  11.7 63-121  60B Preparation Me Kansas City  5.9	DF ethod: E	Prepared  PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B  10/07/21 11:50 PA 5035A/5030B  10/07/21 11:50 PA 5035A/5030B	Analyzed  10/07/21 21:14 10/07/21 21:14 10/07/21 21:14 10/07/21 21:14 10/08/21 16:27 10/08/21 16:27 10/08/21 00:16 10/08/21 00:16 10/08/21 00:16	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	
Parameters  3015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) n-Terphenyl (S) Gasoline Range Organics  TPH-GRO Surrogates 1-Bromofluorobenzene (S) 3260B MSV 5035A Low Level  Benzene Ethylbenzene Toluene Kylene (Total)	Analytical Meth Pace Analytical 38.6 50.6 86 90 Analytical Meth Pace Analytical ND 97 Analytical Meth Pace Analytical Meth Pace Analytical Meth Pace Analytical Meth Pace Analytical ND ND ND	Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg % Il Services - ug/kg ug/kg	Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152 46-130  15B Preparation Me Kansas City  11.7 63-121  60B Preparation Me Kansas City  5.9 5.9	ethod: E  1 1 1 1 1 1 1 thod: E	Prepared  PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B  10/07/21 11:50 PA 5035A/5030B  10/07/21 11:50 PA 5035A/5030B	Analyzed  10/07/21 21:14 10/07/21 21:14 10/07/21 21:14 10/07/21 21:14 10/08/21 16:27 10/08/21 16:27 10/08/21 00:16 10/08/21 00:16	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	
Parameters  3015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates 1-Tetracosane (S) 1-Terphenyl (S) Gasoline Range Organics  TPH-GRO Surrogates 1-Bromofluorobenzene (S)	Results  Analytical Meth Pace Analytical 38.6 50.6 86 90  Analytical Meth Pace Analytical MD ND ND ND ND	Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg % ll Services - ug/kg ug/kg ug/kg	Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152 46-130  15B Preparation Me Kansas City  11.7 63-121  60B Preparation Me Kansas City  5.9 5.9 5.9	ethod: E  1 1 1 1 1 1 1 thod: E	Prepared  PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B  10/07/21 11:50 PA 5035A/5030B  10/07/21 11:50 PA 5035A/5030B  10/07/21 11:50 10/07/21 11:50 10/07/21 11:50	Analyzed  10/07/21 21:14 10/07/21 21:14 10/07/21 21:14 10/07/21 21:14 10/08/21 16:27 10/08/21 16:27 10/08/21 00:16 10/08/21 00:16 10/08/21 00:16	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7	
Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)  B260B MSV 5035A Low Level  Benzene Ethylbenzene Toluene Xylene (Total) Surrogates Toluene-d8 (S) 4-Bromofluorobenzene (S)	Results  Analytical Meth Pace Analytical 38.6 50.6 86 90  Analytical Meth Pace Analytical MD ND ND ND ND ND ND ND	Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg % ll Services - ug/kg ug/kg ug/kg ug/kg	Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152 46-130  15B Preparation Me Kansas City  11.7 63-121  60B Preparation Me Kansas City  5.9 5.9 5.9 17.6	ethod: E  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Prepared  PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B  10/07/21 11:50 PA 5035A/5030B  10/07/21 11:50 PA 5035A/5030B  10/07/21 11:50 10/07/21 11:50 10/07/21 11:50 10/07/21 11:50 10/07/21 11:50	Analyzed  10/07/21 21:14 10/07/21 21:14 10/07/21 21:14 10/07/21 21:14 10/08/21 16:27 10/08/21 16:27  10/08/21 00:16 10/08/21 00:16 10/08/21 00:16	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7 2037-26-5	

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Project: VGEU 2801-02 Pace Project No.: 60382356								
Sample: NSW-2	Lab ID: 603	82356005	Collected: 10/04/2	1 11:20	Received: 10	)/07/21 08:50 M	Matrix: Solid	
Results reported on a "dry weight	" basis and are adj	iusted for p	ercent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
Percent Moisture	Analytical Meth Pace Analytica							
Percent Moisture	7.2	%	0.50	1		10/07/21 13:31		
9056 IC Anions	Analytical Metl Pace Analytica		56 Preparation Meth Kansas City	nod: EP	A 9056			
Chloride	425	mg/kg	107	10	10/07/21 14:32	10/07/21 22:15	16887-00-6	
Sample: NSW-3	Lab ID: 603	82356006	Collected: 10/04/2	1 11:25	Received: 10	)/07/21 08:50 N	Matrix: Solid	
Results reported on a "dry weight	" basis and are adj	iusted for p	ercent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Meth		15B Preparation Me	thod: E	PA 3546			
ГРН-DRO (C10-C28)	20.2	mg/kg	10.5	1	10/07/21 12:50	10/07/21 21:22		
ГРН-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 21:22		OL.
Gasoline Range Organics	Analytical Meth Pace Analytica		15B Preparation Me Kansas City	thod: E	PA 5035A/5030B			
ГРН-GRO <b>Surrogates</b>	ND	mg/kg	9.5	1	10/07/21 11:50	10/08/21 16:42		
1-Bromofluorobenzene (S)	95	%	63-121	1	10/07/21 11:50	10/08/21 16:42	460-00-4	
2260B MSV 5035A Low Level	Analytical Metheral Pace Analytica		60B Preparation Me Kansas City	thod: E	PA 5035A/5030B			
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		10/08/21 00:36		
(ylene (Total) Surrogates	ND	ug/kg	14.2	1	10/07/21 11:50	10/08/21 00:36	1330-20-7	
Foluene-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		10/08/21 00:36		
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 Meth Pace Analytica							
Dargant Majatura	•		•	4		10/07/04 10:04		
Percent Moisture	8.5	%	0.50	1		10/07/21 13:31		
9056 IC Anions	Analytical Meth Pace Analytica		56 Preparation Meth Kansas City	nod: EP	A 9056			

# **REPORT OF LABORATORY ANALYSIS**

108

10

300

mg/kg

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10/07/21 14:32 10/07/21 22:24 16887-00-6

Date: 10/15/2021 08:59 AM

Chloride

(913)599-5665



# **ANALYTICAL RESULTS**

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

Sample: NSW-4	Lab ID: 603	82356007	Collected: 10/04/2	1 11:30	Received: 10	/07/21 08:50 I	Matrix: Solid	
Results reported on a "dry weight"	' basis and are ad	iusted for p	ercent moisture, sa	mple si	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8015B Diesel Range Organics	Analytical Met	hod: FPA 80	015B Preparation Me	thod: FI	PA 3546			
o 102 210001 Harrigo Organico	Pace Analytica		•					
	•		,					
TPH-DRO (C10-C28)	14.6	mg/kg	10.2	1		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 21:20	646 21 1	CL
p-Terphenyl (S)	73	% %	46-130	1		10/07/21 21:30		CL
5- Telphenyi (3)	73	70	40-130	'	10/01/21 12.30	10/01/21 21.50	92-94-4	
Gasoline Range Organics	Analytical Met	hod: EPA 80	15B Preparation Me	thod: El	PA 5035A/5030B			
	Pace Analytica	al Services -	Kansas City					
TPH-GRO	ND	mg/kg	10.9	1	10/07/21 11:50	10/08/21 16:57	•	
Surrogates	115	9,119	10.0	•	. 5, 5., 21 11.00	. 5, 55, 21 10.01		
4-Bromofluorobenzene (S)	96	%	63-121	1	10/07/21 11:50	10/08/21 16:57	460-00-4	
3260B MSV 5035A Low Level	Analytical Met	hod: EDA 83	260B Preparation Me	thod: El	DA 50354/5030B			
5200B M3V 5035A LOW Level	-			illou. Li	FA 3033A/3030B			
	Pace Analytica	ii Services -	Kansas City					
Benzene	ND	ug/kg	5.5	1		10/08/21 00:56		
Ethylbenzene	ND	ug/kg	5.5	1		10/08/21 00:56		
Toluene	ND	ug/kg	5.5	1	10/07/21 11:50			
Xylene (Total)	ND	ug/kg	16.4	1	10/07/21 11:50	10/08/21 00:56	1330-20-7	
Surrogates	400	0/	00.400	4	40/07/04 44-50	40/00/04 00:50	0007.00.5	
Toluene-d8 (S) 4-Bromofluorobenzene (S)	102 99	% %	80-120 83-119	1 1		10/08/21 00:56 10/08/21 00:56		
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	1		10/08/21 00:56		
1,2-Dicilioroperizerie-u4 (3)	100	/0	80-120	'	10/07/21 11.30	10/06/21 00.50	2199-09-1	
Percent Moisture	Analytical Met	hod: ASTM	D2974					
	Pace Analytica	al Services -	Kansas City					
Percent Moisture	6.3	%	0.50	1		10/07/21 13:31		
9056 IC Anions	Analytical Met	hod: EPA 90	056 Preparation Meth	od: EPA	A 9056			
	Pace Analytica							
061-24-	•		,	40	40/07/04 44 00	40/07/04 00 04	40007.00.0	
Chloride	212	mg/kg	108	10	10/07/21 14:32	10/07/21 22:34	16887-00-6	
	Lab ID 000	2005000	0-1111 40/04/0	4 44 05	Described 40	107/04 00 50	A-total O-Pal	
Sample: NSW-5	Lab ID: 603		Collected: 10/04/2				Matrix: Solid	
Results reported on a "dry weight"	basis and are adj	ustea tor p	ercent moisture, sa	mpie si	ze ana any allu	ions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8015B Diesel Range Organics	Analytical Metl	hod: EPA 80	)15B Preparation Me	thod: El	PA 3546			
	Pace Analytica		•					
ГРН-DRO (С10-С28)	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 21:38		
Surrogates	72.0	9/119	10.0	•	. 5, 51, 21 12.50	. 5/5//21 21.00	•	
n-Tetracosane (S)	79	%	31-152	1	10/07/21 12:50	10/07/21 21:38	646-31-1	CL

# **REPORT OF LABORATORY ANALYSIS**

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

Describe warmanted are a finite or 1 1 4	Lab ID: 603	82356008	Collected: 10/04/2	21 11:3	5 Received: 10	/07/21 08:50 M	fatrix: Solid	
Results reported on a "dry weight'	" basis and are adj	usted for per	cent moisture, sa	mple s	size and any dilut	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
Gasoline Range Organics	Analytical Meth		B Preparation Me	thod: E	EPA 5035A/5030B			
TPH-GRO <b>Surrogates</b>	ND	mg/kg	11.8	1	10/07/21 11:50	10/08/21 17:13		
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 Meth Pace Analytica		DB Preparation Me ansas City	thod: E	EPA 5035A/5030B			
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) <b>Surrogates</b>	ND	ug/kg	17.7	1	10/07/21 11:50	10/08/21 01:17	1330-20-7	
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 Meth Pace Analytica							
Percent Moisture	8.3	%	0.50	1		10/07/21 13:31		
9056 IC Anions	Analytical Meth Pace Analytica		Preparation Methansas City	nod: EF	PA 9056			
9056 IC Anions Chloride				nod: EF		10/07/21 22:44	16887-00-6	
Chloride  Sample: NSW-6  Results reported on a "dry weight"  Parameters	Pace Analytica 945  Lab ID: 603i " basis and are adj  Results	I Services - Karney Registration   Market Services -	2001 Annual Collected: 10/04/2 Coent moisture, sa Report Limit	10 21 11:4 a <b>mple</b> s	10/07/21 14:32  Received: 10  Size and any dilute  Prepared	/07/21 08:50 N	16887-00-6  Matrix: Solid  CAS No.	Qua
Chloride Sample: NSW-6 Results reported on a "dry weight"	Pace Analytica 945  Lab ID: 603i " basis and are adj  Results	I Services - Ki mg/kg 82356009 ( susted for per Units	Collected: 10/04/2 cent moisture, sa Report Limit BB Preparation Me	10 21 11:4 a <b>mple</b> s	10/07/21 14:32  Received: 10  Size and any dilute  Prepared	/07/21 08:50 N	latrix: Solid	Qua
Chloride  Sample: NSW-6  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics	Pace Analytica 945  Lab ID: 603: " basis and are adj  Results  Analytical Meth	I Services - Ki mg/kg 82356009 ( susted for per Units	Collected: 10/04/2 cent moisture, sa Report Limit BB Preparation Me	10 21 11:4 a <b>mple</b> s	10/07/21 14:32  Received: 10  Size and any dilute  Prepared  EPA 3546	/07/21 08:50 N	latrix: Solid	Qua
Chloride  Sample: NSW-6  Results reported on a "dry weight"  Parameters	Pace Analytica 945  Lab ID: 603i " basis and are adj Results  Analytical Meth Pace Analytica	I Services - Kang/kg  82356009  usted for per Units  nod: EPA 8018 I Services - Kang	Collected: 10/04/2 reent moisture, sa Report Limit BB Preparation Meansas City	10 21 11:4 ample s DF ethod: E	10/07/21 14:32  Received: 10  Size and any dilute  Prepared  EPA 3546  10/07/21 12:50	/07/21 08:50 M tions. Analyzed	latrix: Solid	Qua
Chloride  Sample: NSW-6  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)  Surrogates	Pace Analytica 945  Lab ID: 603i " basis and are adj Results  Analytical Meth Pace Analytica 25.1	I Services - Karmg/kg  82356009  Units  Hod: EPA 8018 I Services - Karmg/kg	Collected: 10/04/2 reent moisture, sa Report Limit BB Preparation Meansas City 10.2	10 21 11:4 ample s DF ethod: E	10/07/21 14:32  Received: 10  Size and any dilute  Prepared  EPA 3546  10/07/21 12:50 10/07/21 12:50	/07/21 08:50 M tions. Analyzed 10/07/21 21:46	fatrix: Solid  CAS No.	Qua
Chloride  Sample: NSW-6  Results reported on a "dry weight" Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35)  Surrogates n-Tetracosane (S)	Pace Analytica 945  Lab ID: 603i " basis and are adj Results  Analytical Meth Pace Analytica 25.1 48.6	I Services - Karmg/kg  82356009  Units  Hod: EPA 8018  I Services - Karmg/kg  mg/kg	Collected: 10/04/2 reent moisture, sa Report Limit BB Preparation Meansas City 10.2 10.2	10 21 11:4 ample s DF ethod: E	10/07/21 14:32  O Received: 10  Size and any dilute Prepared  EPA 3546  10/07/21 12:50 10/07/21 12:50	//07/21 08:50 M tions. Analyzed  10/07/21 21:46 10/07/21 21:46	CAS No.	
Chloride  Sample: NSW-6  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)	Pace Analytica 945  Lab ID: 603  Basis and are adj Results  Analytical Meth Pace Analytica 25.1 48.6 73 79	B2356009 (busted for per Units and: EPA 8015 mg/kg mg/kg % mod: EPA 8015 mod: EPA 8015 mg/kg mg/	Collected: 10/04/2 cent moisture, sa Report Limit  5B Preparation Me ansas City  10.2 10.2 31-152 46-130  5B Preparation Me	10 21 11:4 ample s DF ethod: E	10/07/21 14:32  0 Received: 10  size and any dilute Prepared  EPA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50	//07/21 08:50 M tions. Analyzed  10/07/21 21:46 10/07/21 21:46 10/07/21 21:46 10/07/21 21:46	CAS No.	
Chloride  Sample: NSW-6 Results reported on a "dry weight" Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Pace Analytical 945  Lab ID: 603: " basis and are adj Results  Analytical Meth Pace Analytical 25.1 48.6 73 79  Analytical Meth	B2356009 (busted for per Units and: EPA 8015 mg/kg mg/kg % mod: EPA 8015 mod: EPA 8015 mg/kg mg/	Collected: 10/04/2 cent moisture, sa Report Limit  5B Preparation Me ansas City  10.2 10.2 31-152 46-130  5B Preparation Me	10 21 11:4 ample s DF ethod: E	10/07/21 14:32  0 Received: 10  size and any dilute Prepared  EPA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 EPA 5035A/5030B	//07/21 08:50 M tions. Analyzed  10/07/21 21:46 10/07/21 21:46 10/07/21 21:46 10/07/21 21:46	CAS No.	

# **REPORT OF LABORATORY ANALYSIS**

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# **ANALYTICAL RESULTS**

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

Sample: NSW-6	Lab ID: 603	82356009	Collected: 10/04/2	1 11:40	Received: 10	/07/21 08:50 N	latrix: Solid	
Results reported on a "dry weight	t" basis and are adj	usted for p	ercent moisture, sa	mple s	ize and any dilut	ions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260B MSV 5035A Low Level	Analytical Meth	nod: EPA 82	60B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica	I 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 ug/kg	5.6	1		10/08/21 01:37		
Foluene	ND	ug/kg	5.6	1		10/08/21 01:37		
(ylene (Total)	ND	ug/kg	16.7	1		10/08/21 01:37		
Surrogates		-5.1.5			,			
Toluene-d8 (S)	106	%	80-120	1	10/07/21 11:50	10/08/21 01:37	2037-26-5	
I-Bromofluorobenzene (S)	95	%	83-119	1	10/07/21 11:50	10/08/21 01:37	460-00-4	
,2-Dichlorobenzene-d4 (S)	94	%	80-120	1	10/07/21 11:50	10/08/21 01:37	2199-69-1	
Percent Moisture	Analytical Meth	nod: ASTM [	D2974					
	Pace Analytica	l Services -	Kansas City					
Percent Moisture	7.7	%	0.50	1		10/07/21 13:31		
9056 IC Anions	Analytical Meth	nod: EPA 90	56 Preparation Meth	nod: EP	A 9056			
	Pace Analytica	l Services -	Kansas City					
Chloride	740	mg/kg	108	10	10/07/21 14:32	10/07/21 22:54	16887-00-6	
Sample: NSW-7	Lab ID: 603	82356010	Collected: 10/04/2	1 11:45	Received: 10	/07/21 08:50 M	latrix: Solid	
•							latrix: Solid	
•							latrix: Solid  CAS No.	Qua
Results reported on a "dry weight Parameters	t" basis and are adj Results	usted for p	Report Limit	mple s	ize and any dilut	ions.		Qua
Results reported on a "dry weight Parameters	Results Analytical Meth	Units Ond: EPA 80	Report Limit  15B Preparation Me	mple s	ize and any dilut	ions.		Qua
Results reported on a "dry weight Parameters  8015B Diesel Range Organics	Results  Analytical Methorace Analytica	Units  Hod: EPA 80 Il Services -	Report Limit  15B Preparation Me Kansas City	mple s  DF  thod: E	PA 3546	Analyzed		Qua
Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28)	Results  Analytical Meth Pace Analytica  27.5	Units  Hod: EPA 80 Il Services -  mg/kg	Report Limit  15B Preparation Me Kansas City  10.9	mple s  DF  thod: E	PA 3546	Analyzed 10/07/21 21:55		Qua
Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35)	Results  Analytical Methorace Analytica	Units  Hod: EPA 80 Il Services -	Report Limit  15B Preparation Me Kansas City	mple s  DF  thod: E	PA 3546	Analyzed		Qua
Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates	Results  Analytical Meth Pace Analytica  27.5 52.6	Units  Od: EPA 80 Il Services - mg/kg mg/kg	Report Limit  15B Preparation Me Kansas City  10.9 10.9	mple s  DF  thod: E	PA 3546  10/07/21 12:50 10/07/21 12:50	Analyzed  10/07/21 21:55 10/07/21 21:55	CAS No.	
Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates FTH-Tetracosane (S)	Results  Analytical Meth Pace Analytica  27.5 52.6	Units  Output  Units	Report Limit  15B Preparation Me Kansas City  10.9 10.9 31-152	mple s  DF  thod: E	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50	Analyzed  10/07/21 21:55 10/07/21 21:55	CAS No.	Qua
Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) b-Terphenyl (S)	Analytical Meth Pace Analytica  27.5 52.6  77 83	Units  Output  Units	Report Limit  15B Preparation Me Kansas City  10.9 10.9 31-152 46-130	mple s  DF  thod: E	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50	Analyzed  10/07/21 21:55 10/07/21 21:55	CAS No.	Qua
Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates 1-Tetracosane (S) 1-Terphenyl (S)	Analytical Meth Pace Analytica 27.5 52.6 77 83 Analytical Meth	Units  Hod: EPA 80  I Services -  mg/kg  mg/kg  %  hod: EPA 80	Report Limit  15B Preparation Me Kansas City  10.9 10.9 31-152 46-130  15B Preparation Me	mple s  DF  thod: E	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50	Analyzed  10/07/21 21:55 10/07/21 21:55	CAS No.	
Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)	Analytical Meth Pace Analytica  27.5 52.6  77 83	Units  Hod: EPA 80  I Services -  mg/kg  mg/kg  %  hod: EPA 80	Report Limit  15B Preparation Me Kansas City  10.9 10.9 31-152 46-130  15B Preparation Me	mple s  DF  thod: E	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50	Analyzed  10/07/21 21:55 10/07/21 21:55	CAS No.	
Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates a-Tetracosane (S) b-Terphenyl (S)  Gasoline Range Organics	Analytical Meth Pace Analytica 27.5 52.6 77 83 Analytical Meth	Units  Hod: EPA 80  I Services -  mg/kg  mg/kg  %  hod: EPA 80	Report Limit  15B Preparation Me Kansas City  10.9 10.9 31-152 46-130  15B Preparation Me	mple s  DF  thod: E	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50	10/07/21 21:55 10/07/21 21:55 10/07/21 21:55 10/07/21 21:55	CAS No.	
Parameters  1015B Diesel Range Organics	Results  Analytical Meth Pace Analytica  27.5 52.6  77 83  Analytical Meth Pace Analytical Meth Pace Analytical Meth Pace Analytical Meth Pace Analytical Meth	usted for p Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg	Report Limit  15B Preparation Me Kansas City  10.9 10.9 31-152 46-130  15B Preparation Me Kansas City	thod: E	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B  10/07/21 11:50	10/07/21 21:55 10/07/21 21:55 10/07/21 21:55 10/07/21 21:55 10/07/21 21:55	CAS No. 646-31-1 92-94-4	
Parameters  Results reported on a "dry weight Parameters  RO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates	Analytical Methodology Pace Analytica  27.5 52.6  77 83  Analytical Methodology Pace Analytical Methodology	usted for p Units  nod: EPA 80 Il Services - mg/kg mg/kg % hod: EPA 80 Il Services -	Report Limit  15B Preparation Me Kansas City  10.9 10.9 31-152 46-130  15B Preparation Me Kansas City	thod: E	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B  10/07/21 11:50	10/07/21 21:55 10/07/21 21:55 10/07/21 21:55 10/07/21 21:55	CAS No. 646-31-1 92-94-4	
Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates F-Tetracosane (S) F-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates F-Bromofluorobenzene (S)	Analytical Methodology Pace Analytical Analytical Analytical Analytical Analytical Analytical Methodology Analytical Methodology Pace Analytical ND 98	usted for p Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg	Report Limit  15B Preparation Me Kansas City  10.9  10.9  31-152  46-130  15B Preparation Me Kansas City  11.8	mple s  DF  thod: E  1  1  1  thod: E	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B  10/07/21 11:50 10/07/21 11:50	10/07/21 21:55 10/07/21 21:55 10/07/21 21:55 10/07/21 21:55 10/07/21 21:55	CAS No. 646-31-1 92-94-4	
Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) FUTH-ORO (C28-C35) FUTH-ORO (S08-C35) FUTH-ORO (S0	Analytical Methodology Pace Analytical Analytical Analytical Analytical Analytical Analytical Methodology Analytical Methodology Pace Analytical ND 98	usted for p Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg mg/kg mg/kg	Report Limit  15B Preparation Me Kansas City  10.9  10.9  31-152  46-130  15B Preparation Me Kansas City  11.8  63-121  60B Preparation Me	mple s  DF  thod: E  1  1  1  thod: E	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B  10/07/21 11:50 10/07/21 11:50	10/07/21 21:55 10/07/21 21:55 10/07/21 21:55 10/07/21 21:55 10/07/21 21:55	CAS No. 646-31-1 92-94-4	
Results reported on a "dry weighted Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates h-Tetracosane (S) h-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates h-Bromofluorobenzene (S)  8260B MSV 5035A Low Level	Results  Analytical Meth Pace Analytica  27.5 52.6  77 83  Analytical Meth Pace Analytical ND 98  Analytical Meth Pace Analytical	usted for p Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg % and: EPA 82 Il Services -	Report Limit  15B Preparation Me Kansas City  10.9 10.9 31-152 46-130  15B Preparation Me Kansas City  11.8 63-121  60B Preparation Me Kansas City	thod: E	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B  10/07/21 11:50 10/07/21 11:50 PA 5035A/5030B	10/07/21 21:55 10/07/21 21:55 10/07/21 21:55 10/07/21 21:55 10/07/21 21:55 10/11/21 11:13	CAS No. 646-31-1 92-94-4	
Results reported on a "dry weighter Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates FTH-GRO Gasoline Range Organics  FPH-GRO Surrogates	Analytical Meth Pace Analytical ND	units  un	Report Limit  15B Preparation Me Kansas City  10.9  10.9  31-152  46-130  15B Preparation Me Kansas City  11.8  63-121  60B Preparation Me Kansas City  5.9	thod: E  thod: E  thod: E  thod: E  thod: E	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B 10/07/21 11:50 PA 5035A/5030B 10/07/21 11:50	10/07/21 21:55 10/07/21 21:55 10/07/21 21:55 10/07/21 21:55 10/07/21 21:55 10/11/21 11:13 10/11/21 11:13	CAS No. 646-31-1 92-94-4 460-00-4	
Results reported on a "dry weighter Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates h-Tetracosane (S) h-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates h-Bromofluorobenzene (S)  8260B MSV 5035A Low Level  Genzene Ethylbenzene	Analytical Meth Pace Analytical MD ND	usted for p Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg % li Services - ug/kg ug/kg	Report Limit  15B Preparation Me Kansas City  10.9 10.9 31-152 46-130  15B Preparation Me Kansas City  11.8 63-121  60B Preparation Me Kansas City  5.9 5.9	thod: E  thod: E  thod: E  thod: E	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B  10/07/21 11:50 PA 5035A/5030B  10/07/21 11:50 PA 5035A/5030B	10/07/21 21:55 10/07/21 21:55 10/07/21 21:55 10/07/21 21:55 10/07/21 21:55 10/11/21 11:13 10/11/21 11:13	CAS No. 646-31-1 92-94-4 460-00-4 71-43-2 100-41-4	
Results reported on a "dry weighter Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) FURDER ORGANICS  FOR ORGANICS  FPH-GRO FURDER ORGANICS  FPH-GRO Furrogates FPH-GRO Furrogates FPH-GRO Fourrogates FPH-GRO FOURROW FPH-GRO FPH-GRO FOURROW FPH-GRO FOURROW FPH-GRO FPH-GRO FOURROW FPH-GRO FPH	Results  Analytical Meth Pace Analytical  27.5 52.6  77 83  Analytical Meth Pace Analytical ND 98  Analytical Meth Pace Analytical ND ND ND ND	usted for p Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg wg/kg ug/kg ug/kg ug/kg	Report Limit  15B Preparation Me Kansas City  10.9 10.9 31-152 46-130  15B Preparation Me Kansas City  11.8 63-121  60B Preparation Me Kansas City  5.9 5.9 5.9	thod: E  thod: E  thod: E  thod: E	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B  10/07/21 11:50 PA 5035A/5030B  10/07/21 11:50 PA 5035A/5030B	10/07/21 21:55 10/07/21 21:55 10/07/21 21:55 10/07/21 21:55 10/07/21 21:55 10/11/21 11:13 10/11/21 11:13 10/08/21 01:58 10/08/21 01:58 10/08/21 01:58	CAS No.  646-31-1 92-94-4  460-00-4  71-43-2 100-41-4 108-88-3	
Sample: NSW-7 Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S) Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S) B260B MSV 5035A Low Level  Benzene Ethylbenzene Toluene Xylene (Total) Surrogates	Analytical Meth Pace Analytical MD ND	usted for p Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg % li Services - ug/kg ug/kg	Report Limit  15B Preparation Me Kansas City  10.9 10.9 31-152 46-130  15B Preparation Me Kansas City  11.8 63-121  60B Preparation Me Kansas City  5.9 5.9	thod: E  thod: E  thod: E  thod: E	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B  10/07/21 11:50 PA 5035A/5030B  10/07/21 11:50 PA 5035A/5030B	10/07/21 21:55 10/07/21 21:55 10/07/21 21:55 10/07/21 21:55 10/07/21 21:55 10/11/21 11:13 10/11/21 11:13	CAS No.  646-31-1 92-94-4  460-00-4  71-43-2 100-41-4 108-88-3	

# **REPORT OF LABORATORY ANALYSIS**

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

Sample: NSW-7	Lab ID: 603	82356010	Collected: 10/04/2	21 11:45	Received: 10	/07/21 08:50 N	latrix: Solid	
Results reported on a "dry weight	" basis and are adj	usted for pe	rcent moisture, sa	imple s	ize and any dilut	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260B MSV 5035A Low Level	Analytical Meth	nod: EPA 826	60B Preparation Me	ethod: E	PA 5035A/5030B			
	Pace Analytica	l Services - Ł	Kansas City					
Surrogates								
4-Bromofluorobenzene (S)	98	%	83-119	1	10/07/21 11:50	10/08/21 01:58	460-00-4	
,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	10/07/21 11:50	10/08/21 01:58	2199-69-1	
Percent Moisture	Analytical Meth	nod: ASTM D	2974					
ordent molecule	Pace Analytica							
Percent Moisture	9.6	%	0.50	1		10/07/21 13:32		
ercent worsture						10/01/21 13.32		
9056 IC Anions			66 Preparation Met	hod: EP	A 9056			
	Pace Analytica	l Services - k	Kansas City					
Chloride	2370	mg/kg	222	20	10/07/21 14:32	10/08/21 10:37	16887-00-6	
Commission NOW 7 (CI)	Lab ID: 603	00050044	Callantad: 40/00/0	24.00.00	Descional 40	/07/04 00-F0 N	lateire Calid	
Sample: NSW-7 (6')			Collected: 10/06/2				latrix: Solid	
Results reported on a "dry weight	m basis and are adj	ustea for pe	rcent moisture, sa	impie s	ize and any dilui	ions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
			<u> </u>		- <u> </u>	Analyzed	CAS No.	- Qua
	Analytical Meth	nod: EPA 801	5B Preparation Me		- <u> </u>	Analyzed	CAS No.	Qua
3015B Diesel Range Organics	Analytical Meth	nod: EPA 801 Il Services - h	5B Preparation Me Kansas City	ethod: E	PA 3546		CAS No.	Qua
3015B Diesel Range Organics  TPH-DRO (C10-C28)	Analytical Meth Pace Analytica 22.8	nod: EPA 801 Il Services - h mg/kg	5B Preparation Me Kansas City 10.6	ethod: E	PA 3546	10/07/21 22:03	CAS No.	Qua
B015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)	Analytical Meth	nod: EPA 801 Il Services - h	5B Preparation Me Kansas City	ethod: E	PA 3546		CAS No.	Qua
GO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35)  Surrogates	Analytical Meth Pace Analytica 22.8 45.9	nod: EPA 801 I Services - h mg/kg mg/kg	5B Preparation Me Kansas City 10.6 10.6	ethod: E	PA 3546  10/07/21 12:50 10/07/21 12:50	10/07/21 22:03 10/07/21 22:03		
PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates I-Tetracosane (S)	Analytical Meth Pace Analytica 22.8 45.9	nod: EPA 801 I Services - h mg/kg mg/kg %	5B Preparation Me Kansas City 10.6 10.6 31-152	ethod: E	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50	10/07/21 22:03 10/07/21 22:03 10/07/21 22:03	646-31-1	Qua
GO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)	Analytical Meth Pace Analytica 22.8 45.9 83 93	mod: EPA 801 Il Services - k mg/kg mg/kg % %	5B Preparation Me Kansas City 10.6 10.6 31-152 46-130	ethod: E 1 1 1 1	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50	10/07/21 22:03 10/07/21 22:03	646-31-1	
GO15B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)	Analytical Meth Pace Analytica  22.8 45.9  83 93  Analytical Meth	mod: EPA 801 Il Services - h mg/kg mg/kg % % mod: EPA 801	5B Preparation Me (ansas City 10.6 10.6 31-152 46-130 5B Preparation Me	ethod: E 1 1 1 1	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50	10/07/21 22:03 10/07/21 22:03 10/07/21 22:03	646-31-1	
GO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)	Analytical Meth Pace Analytica 22.8 45.9 83 93	mod: EPA 801 Il Services - h mg/kg mg/kg % % mod: EPA 801	5B Preparation Me (ansas City 10.6 10.6 31-152 46-130 5B Preparation Me	ethod: E 1 1 1 1	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50	10/07/21 22:03 10/07/21 22:03 10/07/21 22:03	646-31-1	
GO15B Diesel Range Organics  GPH-DRO (C10-C28)  GPH-ORO (C28-C35)  Surrogates  n-Tetracosane (S)  p-Terphenyl (S)  Gasoline Range Organics	Analytical Meth Pace Analytica  22.8 45.9  83 93  Analytical Meth	mod: EPA 801 Il Services - h mg/kg mg/kg % % mod: EPA 801	5B Preparation Me (ansas City 10.6 10.6 31-152 46-130 5B Preparation Me	ethod: E 1 1 1 1	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B	10/07/21 22:03 10/07/21 22:03 10/07/21 22:03	646-31-1	
B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) n-Terphenyl (S) Gasoline Range Organics  TPH-GRO Surrogates	Analytical Meth Pace Analytica 22.8 45.9 83 93 Analytical Meth Pace Analytica	nod: EPA 801 Il Services - k mg/kg mg/kg % nod: EPA 801 Il Services - k mg/kg	5B Preparation Me Kansas City  10.6 10.6 31-152 46-130 5B Preparation Me Kansas City  11.0	ethod: E	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B  10/07/21 11:50	10/07/21 22:03 10/07/21 22:03 10/07/21 22:03 10/07/21 22:03 10/11/21 11:28	646-31-1 92-94-4	
B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) n-Terphenyl (S) Gasoline Range Organics  TPH-GRO Surrogates	Analytical Meth Pace Analytica 22.8 45.9 83 93 Analytical Meth Pace Analytica	mod: EPA 801 Il Services - k mg/kg mg/kg % mod: EPA 801 Il Services - k	5B Preparation Me  Kansas City  10.6  10.6  31-152  46-130  5B Preparation Me  Kansas City	ethod: E	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B  10/07/21 11:50	10/07/21 22:03 10/07/21 22:03 10/07/21 22:03 10/07/21 22:03	646-31-1 92-94-4	
GO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 1-Bromofluorobenzene (S)	Analytical Meth Pace Analytica  22.8 45.9  83 93  Analytical Meth Pace Analytical ND  96	mod: EPA 801 Il Services - h mg/kg mg/kg % mod: EPA 801 Il Services - h mg/kg %	5B Preparation Me (ansas City 10.6 10.6 31-152 46-130 5B Preparation Me (ansas City 11.0	ethod: E  1 1 1 1 tethod: E	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B  10/07/21 11:50 10/07/21 11:50	10/07/21 22:03 10/07/21 22:03 10/07/21 22:03 10/07/21 22:03 10/07/21 11:28 10/11/21 11:28	646-31-1 92-94-4	
GO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 1-Bromofluorobenzene (S)	Analytical Meth Pace Analytica  22.8 45.9  83 93  Analytical Meth Pace Analytical ND  96	mod: EPA 801 Il Services - h mg/kg mg/kg % hod: EPA 801 Il Services - h mg/kg % hod: EPA 826	5B Preparation Me (ansas City  10.6 10.6 31-152 46-130 5B Preparation Me (ansas City  11.0 63-121	ethod: E  1 1 1 1 tethod: E	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B  10/07/21 11:50 10/07/21 11:50	10/07/21 22:03 10/07/21 22:03 10/07/21 22:03 10/07/21 22:03 10/07/21 11:28 10/11/21 11:28	646-31-1 92-94-4	
GO15B Diesel Range Organics  GPH-DRO (C10-C28) GPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics  GPH-GRO Surrogates 4-Bromofluorobenzene (S)  3260B MSV 5035A Low Level	Analytical Meth Pace Analytica  22.8 45.9 83 93 Analytical Meth Pace Analytica ND 96 Analytical Meth Pace Analytical Meth	mod: EPA 801 Il Services - h mg/kg mg/kg % mod: EPA 801 Il Services - h mg/kg %	5B Preparation Me (ansas City  10.6 10.6 31-152 46-130 5B Preparation Me (ansas City  11.0 63-121 60B Preparation Me (ansas City	ethod: E  1 1 1 1 1 1 1 1 1 tethod: E	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B 10/07/21 11:50 10/07/21 11:50 PA 5035A/5030B	10/07/21 22:03 10/07/21 22:03 10/07/21 22:03 10/07/21 22:03 10/07/21 11:28 10/11/21 11:28	646-31-1 92-94-4 460-00-4	
BO15B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 1-Bromofluorobenzene (S) B260B MSV 5035A Low Level	Analytical Meth Pace Analytica  22.8 45.9 83 93 Analytical Meth Pace Analytica ND 96 Analytical Meth Pace Analytical Meth Pace Analytical Meth	mod: EPA 801 Il Services - h mg/kg mg/kg % hod: EPA 801 Il Services - h mg/kg % hod: EPA 826 Il Services - h ug/kg	5B Preparation Me (ansas City  10.6 10.6 31-152 46-130 5B Preparation Me (ansas City  11.0 63-121 60B Preparation Me (ansas City  5.5	ethod: E  1 1 1 1 1 1 1 1 tethod: E	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B 10/07/21 11:50 PA 5035A/5030B 10/07/21 11:50 PA 5035A/5030B	10/07/21 22:03 10/07/21 22:03 10/07/21 22:03 10/07/21 22:03 10/11/21 11:28 10/11/21 11:28	646-31-1 92-94-4 460-00-4 71-43-2	
BO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 1-Bromofluorobenzene (S) B260B MSV 5035A Low Level  Genzene Ethylbenzene	Analytical Meth Pace Analytica  22.8 45.9 83 93 Analytical Meth Pace Analytica ND 96 Analytical Meth Pace Analytical Meth Pace Analytical Meth	mod: EPA 801 Il Services - h mg/kg mg/kg % mod: EPA 801 Il Services - h mg/kg % mod: EPA 826 Il Services - h ug/kg ug/kg	5B Preparation Me (ansas City  10.6 10.6 31-152 46-130 5B Preparation Me (ansas City  11.0 63-121 60B Preparation Me (ansas City  5.5 5.5	ethod: E  1 1 1 1 1 1 1 tethod: E  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B  10/07/21 11:50 PA 5035A/5030B  10/07/21 11:50 10/07/21 11:50 10/07/21 11:50	10/07/21 22:03 10/07/21 22:03 10/07/21 22:03 10/07/21 22:03 10/07/21 11:28 10/11/21 11:28 10/11/21 11:28	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4	
BO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 1-Bromofluorobenzene (S) B260B MSV 5035A Low Level  Genzene Ethylbenzene Foluene	Analytical Meth Pace Analytica  22.8 45.9 83 93 Analytical Meth Pace Analytical ND 96 Analytical Meth Pace Analytical ND ND ND ND	mod: EPA 801 Il Services - H mg/kg mg/kg % mod: EPA 801 Il Services - H mg/kg % nod: EPA 826 Il Services - H ug/kg ug/kg ug/kg	5B Preparation Me (ansas City  10.6 10.6 31-152 46-130 5B Preparation Me (ansas City  11.0 63-121 60B Preparation Me (ansas City  5.5 5.5	ethod: E  1 1 1 1 1 1 1 1 ethod: E  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B  10/07/21 11:50 PA 5035A/5030B  10/07/21 11:50 10/07/21 11:50 10/07/21 11:50 10/07/21 11:50	10/07/21 22:03 10/07/21 22:03 10/07/21 22:03 10/07/21 22:03 10/07/21 22:03 10/11/21 11:28 10/11/21 11:28 10/08/21 02:19 10/08/21 02:19 10/08/21 02:19	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	
BO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 1-Bromofluorobenzene (S) B260B MSV 5035A Low Level  Genzene Ethylbenzene Foluene Kylene (Total)	Analytical Meth Pace Analytica  22.8 45.9 83 93 Analytical Meth Pace Analytica ND 96 Analytical Meth Pace Analytical Meth Pace Analytical Meth	mod: EPA 801 Il Services - h mg/kg mg/kg % mod: EPA 801 Il Services - h mg/kg % mod: EPA 826 Il Services - h ug/kg ug/kg	5B Preparation Me (ansas City  10.6 10.6 31-152 46-130 5B Preparation Me (ansas City  11.0 63-121 60B Preparation Me (ansas City  5.5 5.5	ethod: E  1 1 1 1 1 1 1 tethod: E  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B  10/07/21 11:50 PA 5035A/5030B  10/07/21 11:50 10/07/21 11:50 10/07/21 11:50 10/07/21 11:50	10/07/21 22:03 10/07/21 22:03 10/07/21 22:03 10/07/21 22:03 10/07/21 11:28 10/11/21 11:28 10/11/21 11:28	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	
GO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 1-Bromofluorobenzene (S)  B260B MSV 5035A Low Level  Genzene Ethylbenzene Foluene Kylene (Total) Surrogates	Analytical Meth Pace Analytica  22.8 45.9 83 93 Analytical Meth Pace Analytical ND 96 Analytical Meth Pace Analytical ND ND ND ND ND ND ND	mod: EPA 801 Il Services - h mg/kg mg/kg % mod: EPA 801 Il Services - h mg/kg % mod: EPA 826 Il Services - h ug/kg ug/kg ug/kg ug/kg	5B Preparation Me (ansas City  10.6 10.6 31-152 46-130 5B Preparation Me (ansas City  11.0 63-121 60B Preparation Me (ansas City  5.5 5.5 16.5	ethod: E  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B  10/07/21 11:50 10/07/21 11:50 PA 5035A/5030B  10/07/21 11:50 10/07/21 11:50 10/07/21 11:50 10/07/21 11:50	10/07/21 22:03 10/07/21 22:03 10/07/21 22:03 10/07/21 22:03 10/07/21 22:03 10/11/21 11:28 10/11/21 11:28 10/08/21 02:19 10/08/21 02:19 10/08/21 02:19 10/08/21 02:19	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7	
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)  B260B MSV 5035A Low Level  Benzene Ethylbenzene Toluene Xylene (Total) Surrogates Toluene-d8 (S) 4-Bromofluorobenzene (S)	Analytical Meth Pace Analytica  22.8 45.9 83 93 Analytical Meth Pace Analytical ND 96 Analytical Meth Pace Analytical ND ND ND ND	mod: EPA 801 Il Services - H mg/kg mg/kg % mod: EPA 801 Il Services - H mg/kg % nod: EPA 826 Il Services - H ug/kg ug/kg ug/kg	5B Preparation Me (ansas City  10.6 10.6 31-152 46-130 5B Preparation Me (ansas City  11.0 63-121 60B Preparation Me (ansas City  5.5 5.5	ethod: E  1 1 1 1 1 1 1 1 ethod: E  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 PA 5035A/5030B  10/07/21 11:50 PA 5035A/5030B  10/07/21 11:50 10/07/21 11:50 10/07/21 11:50 10/07/21 11:50 10/07/21 11:50 10/07/21 11:50	10/07/21 22:03 10/07/21 22:03 10/07/21 22:03 10/07/21 22:03 10/07/21 22:03 10/11/21 11:28 10/11/21 11:28 10/08/21 02:19 10/08/21 02:19 10/08/21 02:19	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7 2037-26-5	

# **REPORT OF LABORATORY ANALYSIS**

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



VGEU 2801-02

60382356

Project:

Pace Project No.:

#### **ANALYTICAL RESULTS**

Collected: 10/06/21 09:00 Sample: NSW-7 (6') Lab ID: 60382356011 Received: 10/07/21 08:50 Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions. **Parameters** Results Units Report Limit Prepared Analyzed CAS No. Qual Analytical Method: ASTM D2974 **Percent Moisture** Pace Analytical Services - Kansas City Percent Moisture 7.4 0.50 1 10/07/21 13:32 Analytical Method: EPA 9056 Preparation Method: EPA 9056 9056 IC Anions Pace Analytical Services - Kansas City Chloride 342 110 10/07/21 14:32 10/08/21 09:50 16887-00-6 mg/kg 10 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 Analytical Method: EPA 8015B Preparation Method: EPA 3546 8015B Diesel Range Organics Pace Analytical Services - Kansas City TPH-DRO (C10-C28) 13.2 mg/kg 10.1 10/07/21 12:50 10/07/21 22:11

TPH-ORO (C28-C35) Surrogates	27.2	mg/kg	10.1	1	10/07/21 12:50	10/07/21 22:11						
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				02				
Gasoline Range Organics	Analytical Met	nod: EPA 8015E	Preparation Me	thod: E	EPA 5035A/5030B							
	Pace Analytica	Pace Analytical Services - Kansas City										
TPH-GRO Surrogates	ND	mg/kg	10.3	1	10/07/21 11:50	10/11/21 11:43						
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 Met	nod: EPA 8260E	Preparation Me	thod: E	EPA 5035A/5030B							
	Pace Analytica	ıl Services - Kar	nsas 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 Met	nod: ASTM D29	74									
	Pace Analytica	ıl Services - Kar	nsas City									
Percent Moisture	4.5	%	0.50	1		10/07/21 13:32						
9056 IC Anions	Analytical Met	nod: EPA 9056	Preparation Meth	od: EF	PA 9056							
	Pace Analytica	ıl Services - Kar	nsas City									
Chloride	1160	mg/kg	102	10	10/07/21 14:32	10/08/21 09:02	16887-00-6					

#### **REPORT OF LABORATORY ANALYSIS**

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

Sample: WSW-3 (4')	Lab ID: 603	82356013	Collected: 10/06/2	21 09:20	Received: 10	/07/21 08:50 M	latrix: Solid	
Results reported on a "dry weight	" basis and are ad	iusted for pe	ercent moisture, sa	mple s	size and any dilut	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
015B Diesel Range Organics	Analytical Metl	nod: EPA 80	15B Preparation Me	thod: E	PA 3546			
	Pace Analytica	l Services -	Kansas City					
PH-DRO (C10-C28)	24.0	mg/kg	10.1	1	10/07/21 12:50	10/07/21 22:19		
PH-ORO (C28-C35) Surrogates	36.8	mg/kg	10.1	1	10/07/21 12:50	10/07/21 22:19		
-Tetracosane (S)	77	%	31-152	1		10/07/21 22:19		CL
-Terphenyl (S)	86	%	46-130	1	10/07/21 12:50	10/07/21 22:19	92-94-4	
Sasoline Range Organics	Analytical Metl Pace Analytica		15B Preparation Me Kansas City	thod: E	EPA 5035A/5030B			
FPH-GRO Surrogates	ND	mg/kg	9.6	1	10/07/21 11:50	10/11/21 11:58		
I-Bromofluorobenzene (S)	96	%	63-121	1	10/07/21 11:50	10/11/21 11:58	460-00-4	
2260B MSV 5035A Low Level	Analytical Metl Pace Analytica		60B Preparation Me Kansas City	thod: E	EPA 5035A/5030B			
Benzene	ND	ug/kg	4.8	1	10/07/21 11:50	10/08/21 03:00	71-43-2	
thylbenzene	ND	ug/kg	4.8	1	10/07/21 11:50	10/08/21 03:00	100-41-4	
oluene	ND	ug/kg	4.8	1	10/07/21 11:50	10/08/21 03:00	108-88-3	
(ylene (Total) <b>Surrogates</b>	ND	ug/kg	14.4	1	10/07/21 11:50	10/08/21 03:00	1330-20-7	
Toluene-d8 (S)	110	%	80-120	1		10/08/21 03:00		
-Bromofluorobenzene (S) ,2-Dichlorobenzene-d4 (S)	100 97	% %	83-119 80-120	1 1		10/08/21 03:00 10/08/21 03:00		
,2-Dichiolopenzene-u4 (3)					10/07/21 11.30	10/00/21 03:00	2199-09-1	
ercent Moisture	Analytical Met							
	Pace Analytica	al Services -	Kansas City					
Percent Moisture	2.3	%	0.50	1		10/07/21 13:32		
056 IC Anions	Analytical Met	hod: EPA 90	56 Preparation Met	nod: EF	PA 9056			
	Pace Analytica	al 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: 603	82356014	Collected: 10/06/2	1 09:3	n Received: 10	/07/21 08·50 M	Matrix: Solid	
Results reported on a "dry weight							idinx. Cond	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
015B Diesel Range Organics	Analytical Metl Pace Analytica		15B Preparation Me Kansas City	thod: E	EPA 3546			
PH-DRO (C10-C28)	14.2	mg/kg	9.7	1	10/07/21 12:50	10/07/21 22:27		
PH-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 22:27		CL
o-Terphenyl (S)	80	%	46-130	1	10/07/21 12:50	10/07/21 22:27	92-94-4	

# **REPORT OF LABORATORY ANALYSIS**

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

	Lab ID: 603		Collected: 10/06/2				latrix: Solid	
Results reported on a "dry weight	" basis and are adj	usted for p	ercent moisture, sa	mple s	size and any dilut	ions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
Gasoline Range Organics	Analytical Meth Pace Analytica		15B Preparation Me Kansas City	thod: E	EPA 5035A/5030B			
TPH-GRO	ND	mg/kg	10.2	1	10/07/21 11:50	10/11/21 12:14		
Surrogates I-Bromofluorobenzene (S)	96	%	63-121	1	10/07/21 11:50	10/11/21 12:14	460-00-4	
3260B MSV 5035A Low Level	Analytical Meth	nod: EPA 82	:60B Preparation Me	thod: E	EPA 5035A/5030B			
	Pace Analytica							
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) Surrogates	ND	ug/kg	15.3	1	10/07/21 11:50	10/08/21 03:20	1330-20-7	
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		10/08/21 03:20	2199-69-1	
Percent Moisture	Analytical Meth Pace Analytica							
Percent Moisture	2.5	%	0.50	1		10/07/21 13:32		
	Analytical Moth		50 December Con Marth	- d. EE	04 0056			
9056 IC Anions	Pace Analytica		56 Preparation Meth Kansas City	100: EF	-A 9000			
9056 IC Anions Chloride	-		•	100: EF		10/08/21 09:26	16887-00-6	
Chloride Sample: SSW-28	Pace Analytica 322 Lab ID: 603	Mg/kg 82356015	Kansas City 106  Collected: 10/06/2	10 1 09:4	10/07/21 14:32 0 Received: 10	/07/21 08:50 M	16887-00-6 Matrix: Solid CAS No.	Qu
Chloride Sample: SSW-28 Results reported on a "dry weight	Pace Analytica 322  Lab ID: 603: " basis and are adj  Results	mg/kg  82356015  usted for p  Units  nod: EPA 80	Collected: 10/06/2 rercent moisture, sa Report Limit 115B Preparation Me	10 1 09:4 <b>mple s</b> DF	10/07/21 14:32  Received: 10  Size and any dilute  Prepared	/07/21 08:50 M	latrix: Solid	Qı
Chloride  Sample: SSW-28  Results reported on a "dry weight Parameters  B015B Diesel Range Organics	Pace Analytica 322  Lab ID: 603: " basis and are adj Results Analytical Meth	mg/kg  82356015  usted for p  Units  nod: EPA 80	Collected: 10/06/2 rercent moisture, sa Report Limit 115B Preparation Me	10 1 09:4 <b>mple s</b> DF	10/07/21 14:32  Received: 10  Size and any dilute  Prepared  EPA 3546	/07/21 08:50 M	latrix: Solid	Qu
Chloride  Sample: SSW-28  Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)	Pace Analytica 322  Lab ID: 603: " basis and are adj Results  Analytical Meth Pace Analytica	mg/kg  82356015  usted for p  Units  nod: EPA 80 I Services -	Collected: 10/06/2 Percent moisture, sa Report Limit  115B Preparation Me Kansas City	10 1 09:4 <b>mple s</b> DF thod: E	10/07/21 14:32  0 Received: 10  size and any dilute Prepared  EPA 3546  10/07/21 12:50	/07/21 08:50 M i <b>ions.</b> Analyzed	latrix: Solid	Qu
Chloride  Sample: SSW-28 Results reported on a "dry weight Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates	Pace Analytica 322  Lab ID: 603i " basis and are adj Results  Analytical Meth Pace Analytica 19.1	I Services - mg/kg  82356015  usted for p  Units  nod: EPA 80 I Services - mg/kg	Collected: 10/06/2 Percent moisture, sa Report Limit  115B Preparation Me Kansas City	10 109:4 mple s DF thod: E	10/07/21 14:32  0 Received: 10  Size and any dilute  Prepared  EPA 3546  10/07/21 12:50  10/07/21 12:50	/07/21 08:50 M ions. Analyzed 10/07/21 22:35	fatrix: Solid  CAS No.	Qu
Chloride  Sample: SSW-28  Results reported on a "dry weight Parameters  B015B Diesel Range Organics  IPH-DRO (C10-C28) IPH-ORO (C28-C35) Surrogates n-Tetracosane (S)	Pace Analytica 322  Lab ID: 603i " basis and are adj Results  Analytical Meth Pace Analytica 19.1 31.2	B2356015  usted for p Units  nod: EPA 80 I Services - mg/kg mg/kg	Collected: 10/06/2 Percent moisture, sa Report Limit  115B Preparation Me Kansas City  10 10	10 1 09:4 mple s DF thod: E	10/07/21 14:32  0 Received: 10  size and any dilute Prepared  EPA 3546  10/07/21 12:50 10/07/21 12:50	/07/21 08:50 M ions. Analyzed  10/07/21 22:35 10/07/21 22:35	CAS No.	
Chloride  Sample: SSW-28  Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)  Surrogates  n-Tetracosane (S)  D-Terphenyl (S)	Pace Analytica 322  Lab ID: 603: " basis and are adj Results  Analytical Meth Pace Analytica 19.1 31.2 83 90	B2356015 usted for p Units  nod: EPA 80 I Services - mg/kg mg/kg % % nod: EPA 80	Collected: 10/06/2 Percent moisture, sa Report Limit 115B Preparation Me Kansas City 10 10 31-152 46-130 115B Preparation Me	10 9:4 mple s DF thod: E	10/07/21 14:32  0 Received: 10  size and any dilute Prepared  EPA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50	/07/21 08:50 M ions. Analyzed  10/07/21 22:35 10/07/21 22:35	CAS No.	
Chloride  Sample: SSW-28  Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28)	Pace Analytica 322  Lab ID: 603: ** basis and are adj Results  Analytical Meth Pace Analytica 19.1 31.2 83 90  Analytical Meth	B2356015 usted for p Units  nod: EPA 80 I Services - mg/kg mg/kg % % nod: EPA 80	Collected: 10/06/2 Percent moisture, sa Report Limit 115B Preparation Me Kansas City 10 10 31-152 46-130 115B Preparation Me	10 9:4 mple s DF thod: E	10/07/21 14:32  0 Received: 10  Size and any dilute Prepared  EPA 3546  10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 10/07/21 12:50 EPA 5035A/5030B	/07/21 08:50 M ions. Analyzed  10/07/21 22:35 10/07/21 22:35	CAS No.	

# **REPORT OF LABORATORY ANALYSIS**

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

Sample: SSW-28	Lab ID: 603	82356015	Collected: 10/06/2	1 09:40	Received: 10	/07/21 08:50 M	Matrix: Solid			
Results reported on a "dry weight	t" basis and are adj	usted for p	ercent moisture, sa	mple si	ize and any dilu	tions.				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual		
8260B MSV 5035A Low Level	Analytical Meth	nod: EPA 82	260B Preparation Me	thod: El	PA 5035A/5030B					
	Pace Analytica	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) <b>Surrogates</b>	ND	ug/kg	15.7	1	10/07/21 11:50	10/08/21 03:40	1330-20-7			
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 Meth	nod: ASTM	D2974							
	Pace Analytica	l Services -	Kansas City							
Percent Moisture	3.6	%	0.50	1		10/07/21 13:32				
9056 IC Anions	Analytical Meth	nod: EPA 90	56 Preparation Meth	nod: EP/	A 9056					
	Pace Analytica	l Services -	Kansas City							
Chloride	377	mg/kg	105	10	10/07/21 14:32	10/08/21 09:38	16887-00-6			

# **REPORT OF LABORATORY ANALYSIS**

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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, 6038256014, 6038256014, 6038256014, 6038256014, 6038256014, 6038256014, 6038256014, 6038256014, 6038256014, 6038256014, 6038256014, 6038256014, 6038256014, 6038256014, 6038

60382356015

METHOD BLANK: 2996410 Matrix: Solid

Associated Lab Samples: 60382356001, 60382356002, 60382356003, 60382356004, 60382356005, 60382356006, 60382356007,

60382356008, 60382356009, 60382356010, 60382356011, 60382356012, 60382356013, 60382356014,

60382356015

		Blank	Reporting		
Parameter	Units	Result	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

Blank Reporting Qualifiers Parameter Units Result Limit Analyzed 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 4-Bromofluorobenzene (S)	mg/kg %	50	46.9	94 99	71-107 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												
			MS	MSD								
	6	60382356001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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			

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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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,

 $60382356008, \, 60382356009, \, 60382356010, \, 60382356011, \, 60382356012, \, 60382356013, \, 60382356014, \, 6038236014, \, 6038236014, \, 6038236014, \, 6038236014, \, 6038236014, \, 6038236014, \, 6038236014, \, 603824014, \, 603824014, \, 603824014, \, 603824014, \, 603824014, \, 603824$ 

60382356015

METHOD BLANK: 2995991 Matrix: Solid

Associated Lab Samples: 60382356001, 60382356002, 60382356003, 60382356004, 60382356005, 60382356006, 60382356007,

60382356008, 60382356009, 60382356010, 60382356011, 60382356012, 60382356013, 60382356014,

60382356015

Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
ug/kg	ND	5.0	10/07/21 22:32	
ug/kg	ND	5.0	10/07/21 22:32	
ug/kg	ND	5.0	10/07/21 22:32	
ug/kg	ND	15.0	10/07/21 22:32	
%	98	80-120	10/07/21 22:32	
%	101	83-119	10/07/21 22:32	
%	114	80-120	10/07/21 22:32	
	ug/kg ug/kg ug/kg ug/kg %	Units         Result           ug/kg         ND           ug/kg         ND           ug/kg         ND           ug/kg         ND           %         98           %         101	Units         Result         Limit           ug/kg         ND         5.0           ug/kg         ND         5.0           ug/kg         ND         5.0           ug/kg         ND         15.0           %         98         80-120           %         101         83-119	Units         Result         Limit         Analyzed           ug/kg         ND         5.0         10/07/21 22:32           ug/kg         ND         5.0         10/07/21 22:32           ug/kg         ND         5.0         10/07/21 22:32           ug/kg         ND         15.0         10/07/21 22:32           %         98         80-120         10/07/21 22:32           %         101         83-119         10/07/21 22:32

LABORATORY CONTROL SAMPLE:	2995992	Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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 SP	IKE DUP	LICATE: 2995			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		1350	1350	527	595	39	44	17-134	12		
Ethylbenzene	ug/kg		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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### **REPORT OF LABORATORY ANALYSIS**

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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, 6038256014, 6038256014, 6038256014, 6038256014, 6038256014, 6038256014, 6038256014, 6038256014, 6038256014, 6038256014, 6038256014, 6038256014, 6038256014, 6038256014, 6038

60382356015

METHOD BLANK: 2995985 Matrix: Solid

Associated Lab Samples: 60382356001, 60382356002, 60382356003, 60382356004, 60382356005, 60382356006, 60382356007,

60382356008, 60382356009, 60382356010, 60382356011, 60382356012, 60382356013, 60382356014,

60382356015

		Blank	Reporting		
Parameter	Units	Result	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 Spike LCS LCS % Rec Parameter Units Conc. Result % 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 S	PIKE DUPLI	CATE: 2995	987		2995988							
			MS	MSD								
	(	60382356001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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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#### **REPORT OF LABORATORY ANALYSIS**

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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

SAMPLE DUPLICATE: 2996140

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

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**



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

QC Batch: 748199

EPA 9056 Analysis Method: QC Batch Method: **EPA 9056** Analysis Description: 9056 IC Anions

> Pace Analytical Services - Kansas City Laboratory:

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

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

LABORATORY CONTROL SAMPLE: 2996095

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2996096 2996097

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

SAMPLE DUPLICATE: 2996098

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

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: 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

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.

#### REPORT OF LABORATORY ANALYSIS





# **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

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

_ab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
60382356001	WSW-1	EPA 3546	748163	EPA 8015B	748279
60382356002	WSW-2	EPA 3546	748163	EPA 8015B	748279
0382356003	WSW-2 (6')	EPA 3546	748163	EPA 8015B	748279
0382356004	NSW-1	EPA 3546	748163	EPA 8015B	748279
0382356005	NSW-2	EPA 3546	748163	EPA 8015B	748279
0382356006	NSW-3	EPA 3546	748163	EPA 8015B	748279
0382356007	NSW-4	EPA 3546	748163	EPA 8015B	748279
0382356008	NSW-5	EPA 3546	748163	EPA 8015B	748279
0382356009	NSW-6	EPA 3546	748163	EPA 8015B	748279
0382356010	NSW-7	EPA 3546	748163	EPA 8015B	748279
0382356011	NSW-7 (6')	EPA 3546	748163	EPA 8015B	748279
0382356012	WSW-3	EPA 3546	748163	EPA 8015B	748279
0382356013	WSW-3 (4')	EPA 3546	748163	EPA 8015B	748279
0382356014	WSW-4	EPA 3546	748163	EPA 8015B	748279
0382356015	SSW-28	EPA 3546	748163	EPA 8015B	748279
0382356001	WSW-1	EPA 5035A/5030B	748283	EPA 8015B	748285
0382356002	WSW-2	EPA 5035A/5030B	748283	EPA 8015B	748285
0382356003	WSW-2 (6')	EPA 5035A/5030B	748283	EPA 8015B	748285
0382356004	NSW-1	EPA 5035A/5030B	748283	EPA 8015B	748285
382356005	NSW-2	EPA 5035A/5030B	748283	EPA 8015B	748285
382356006	NSW-3	EPA 5035A/5030B	748283	EPA 8015B	748285
382356007	NSW-4	EPA 5035A/5030B	748283	EPA 8015B	748285
0382356008	NSW-5	EPA 5035A/5030B	748283	EPA 8015B	748285
0382356009	NSW-6	EPA 5035A/5030B	748283	EPA 8015B	748589
0382356010	NSW-7	EPA 5035A/5030B	748283	EPA 8015B	748589
0382356011	NSW-7 (6')	EPA 5035A/5030B	748283	EPA 8015B	748589
0382356012	wsw-3	EPA 5035A/5030B	748283	EPA 8015B	748589
0382356013	WSW-3 (4')	EPA 5035A/5030B	748283	EPA 8015B	748589
0382356014	WSW-4	EPA 5035A/5030B	748283	EPA 8015B	748589
0382356015	SSW-28	EPA 5035A/5030B	748283	EPA 8015B	748589
382356001	WSW-1	EPA 5035A/5030B	748166	EPA 8260B	748205
0382356002	WSW-2	EPA 5035A/5030B	748166	EPA 8260B	748205
0382356003	WSW-2 (6')	EPA 5035A/5030B	748166	EPA 8260B	748205
0382356004	NSW-1	EPA 5035A/5030B	748166	EPA 8260B	748205
382356005	NSW-2	EPA 5035A/5030B	748166	EPA 8260B	748205
382356006	NSW-3	EPA 5035A/5030B	748166	EPA 8260B	748205
0382356007	NSW-4	EPA 5035A/5030B	748166	EPA 8260B	748205
0382356008	NSW-5	EPA 5035A/5030B	748166	EPA 8260B	748205
382356009	NSW-6	EPA 5035A/5030B	748166	EPA 8260B	748205
382356010	NSW-7	EPA 5035A/5030B	748166	EPA 8260B	748205
382356011	NSW-7 (6')	EPA 5035A/5030B	748166	EPA 8260B	748205
382356012	WSW-3	EPA 5035A/5030B	748166	EPA 8260B	748205
0382356013	WSW-3 (4')	EPA 5035A/5030B	748166	EPA 8260B	748205
382356014	WSW-4	EPA 5035A/5030B	748166	EPA 8260B	748205
0382356015	SSW-28	EPA 5035A/5030B	748166	EPA 8260B	748205
382356001	WSW-1	ASTM D2974	748204		
0382356002	WSW-2	ASTM D2974	748204		

# **REPORT OF LABORATORY ANALYSIS**

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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

# **REPORT OF LABORATORY ANALYSIS**

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# Sample Condition Upon Receipt



Client Name: Tetra Tech		
Courier: FedEx UPS UPS VIA Clay	PEX 🗆 ECI 🗆	Pace □ Xroads □ Client □ Other □
Tracking #: 5002 0053 3253 Pac	ce Shipping Label Use	d? Yes □ No 🗹
Custody Seal on Cooler/Box Present: Yes  No Is	Seals intact: Yes [	
Packing Material: Bubble Wrap □ Bubble Bags	Foam 🗆	None □ Other a TCC
Thermometer Used: T290 Type of	fice: We Blue No	
Cooler Temperature (°C): As-read \. \( \mathcal{L} \) Corr. Fact	tor -1). 3 Correc	Date and initials of person examining contents:
Temperature should be above freezing to 6°C		100721MLX
Chain of Custody present:	es DNo DN/A	
Chain of Custody relinquished:	es ONO ON/A	
Samples arrived within holding time:	ves □No □N/A	
Short Hold Time analyses (<72hr):	□Yes To □N/A	
Rush Turn Around Time requested:	Yes □No □N/A	1 day
Sufficient volume;	Yes 🗆 No 🗆 N/A	
Correct containers used:	<b>Ö</b> yes □No □N/A	
Pace containers used:	ðyes □No □N/A	
Containers intact:	Yes □No □N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	□Yes □No Man/A	
Filtered volume received for dissolved tests?	□Yes □No <b>1</b> N/A	
Sample labels match COC: Date / time / ID / analyses	<b>X</b> Yes □No □N/A	
Samples contain multiple phases? Matrix: 50	□Yes MiNo □N/A	
Containers requiring pH preservation in compliance?	□Yes □No MAN/A	List sample IDs, volumes, lot #'s of preservative and the
(HNO₃, H₂SO₄, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#		date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	□Yes □No	
Potassium iodide test strip turns blue/purple? (Preserve)	□Yes □No	
Trip Blank present:	□Yes □No □N/A	
Headspace in VOA vials ( >6mm):	□Yes Mo □N/A	
Samples from USDA Regulated Area: State: NM	□Yes MNo □N/A	
Additional labels attached to 5035A / TX1005 vials in the field	? □Yes □No □N/A	
Client Notification/ Resolution: Copy COC to		Field Data Required? Y / N
Person Contacted: Date/T	ime:	
Comments/ Resolution		
Product Marray D. C.		-
Project Manager Review:	Date	e:

Received by OCD: 4/6/2022 3:06:55 PM Page 95 of 596 TPH 8015R ö Circle or Specify Method No.) X RUSH: Same Day (24 hr. - 48 hr. 72 hr. Anion/Cation Balance Seneral Water Chemistry (see attached list) Special Report Limits or TRRP Report Page: Chloride 300.0 × × × × × × × × × 6038 2356 Rush Charges Authorized (Asbestos) CB.8 8087 \ 608 3C/MS Semi. Vol. 8270C/625 Standard 3C/W2 AOI: 8580B / 854 (Circle) HAND DELIVERED FEDEX **ANALYSIS REQUEST** CLP Semi Volatiles CLP Metals Ag As Ba Cd Cr Pb Se Hg Sample Temperature otal Metals Ag As Ba Cd Cr Pb Se Hg LAB USE ONLY SAH 8270C (OAM - OAO - OAO - OAO ) Matos H9T × × × × × × × × × PH TX1005 (Ext to C35) BTEX 8260B × BTEX 8021B × × × × × × × × z z FILTERED (Y/N) z z z z z z z Z 호 Fax (432) 682-0880 901 West Wall Street, Suite 100 Email: christian.llull@tetratech.com # CONTAINERS PRESERVATIVE Time: Midland, Texas 79701 NONE METHOD Phone: (512) 338-1667 CE × × × × × × × × × × (432) 682-4559 John Thurston FONH Date: 212C-MD-02099 Christian Llull HCF MATRIX TIOS × × × × × × × **ABTAW** 11:00 11:05 11:10 11:15 11:45 11:20 11:25 11:30 11:35 11:40 TIME ORIGINAL COPY Sampler Signature: SAMPLING MULLY Site Manager: Contact Info: Received by: Received by: EAR: 2021 10/4/2021 Received by 10/4/2021 10/4/2021 10/4/2021 10/4/2021 10/4/2021 10/4/2021 10/4/2021 Project # 10/4/2021 10/4/2021 DATE Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701 (√) Fetra Tech, Inc. Time: Time: SAMPLE IDENTIFICATION 12/9/01 Analysis Request of Chain of Custody Record Date: NSW-2 (6") WSW-2 9-MSN WSW-1 NSW-2 NSW-3 9-MSN Lea County, New Mexico NSW-1 NSW-4 NSW-7 Conoco Phillips VGEU 2801-02 Pace Analytical COPTETRA Acctnum eceiving Laboratory: roject Location: :kd paysing pays 29 of 30 roject Name: elinquished by ounty, state) elinquished by lient Name: LAB USE ONLY Comments: AB# ivoice to:

Regeived by OCD: 4/6/2022 3:06:55 PM Page 96 of 596 **FPH 8015R** ð X RUSH: Same Day (24 hr. )8 hr. 72 hr. Circle or Specify Method No.) Anion/Cation Balance 2 Beneral Water Chemistry (see attached list) Special Report Limits or TRRP Report Page: SQI Sulfate Chloride 300.0 × × × × Rush Charges Authorized (sotsedsA) MJ 9 555 3509 NORM CB.2 8082 / 608 GC/MS Semi. Vol. 8270C/625 Standard 3C/W2 AOF 8500B / 654 (Circle) HAND DELIVERED FEDEX **ANALYSIS REQUEST** LCLP Semi Volatiles TCLP Volatiles CLP Metals Ag As Ba Cd Cr Pb Se Hg otal Metals Ag As Ba Cd Cr Pb Se Hg LAB USE ONLY PAH 8270C TPH 8015M (GRO - DRO - ORO - MRO) × × × × × TX1006 (Ext to C35) BTEX 8260B × × 81508 X3T8 × × × z z z FILTERED (Y/N) ē Fax (432) 682-901 West Wall Street, Surte 100 Midland, Texas 79701 Email: christian.llult@tetratech.com # CONTAINERS PRESERVATIVE Time: METHOD NONE Phone: (512) 338-1667 × × × CE × × 10/7/2 (432) 682-4559 John Thurston Date: ONH 212C-MD-02099 TOF Christian Llull MATRIX TIOS × × × × × **A**BTAW TIME 9:00 9:10 ORIGINAL COPY 9:20 9:30 9:40 Sampler Signature: SAMPLING Mul Site Manager: Contact Info: Received by: Received by: **/EAR: 2021** 10/6/2021 10/6/2021 10/6/2021 10/6/2021 10/6/2021 Project #: DATE Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701 Tetra Tech, Inc. 1500 Time: Time: Manysis Request of Chain of Custody Record

Tetra Tech, SAMPLE IDENTIFICATION Date: WSW-3 (4') NSW-7 (6") WSW-3 WSW-4 SSW-28 Lea County, New Mexico Conoco Phillips /GEU 2801-02 Pace Analytical COPTETRA Acctnum sceiving Laboratory: roject Location: Seliments of 30 of 30 of 30 roject Name: county, state) elinquished by elinduished by lient Name: LAB USE Comments: LAB# ONLY IVoice to:



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







### **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

### **REPORT OF LABORATORY ANALYSIS**





# **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

# **REPORT OF LABORATORY ANALYSIS**



# **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
0382955003	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
0382955004	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
0382955005	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
0382955006	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
0382955007	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
0382955008	FS-9	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K

# **REPORT OF LABORATORY ANALYSIS**



# **SAMPLE ANALYTE COUNT**

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

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260B		7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
0382955009	FS-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
0382955010	FS-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
0382955011	WSW-1 (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
0382955012	NSW-5 (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
0382955013	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
0382955014	SSW-27	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

# **REPORT OF LABORATORY ANALYSIS**



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

Sample: FS-1	Lab ID: 603	82955001	Collected: 10/07/2	21 11:00	Received: 10	)/13/21 09:15 N	fatrix: Solid	
Results reported on a "dry weight	" basis and are ad	justed for p	percent moisture, sa	imple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8015B Diesel Range Organics	Analytical Met	hod: EPA 80	015B Preparation Me	ethod: E	PA 3546			
	Pace Analytica	al 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) <b>Surrogates</b>	1070	mg/kg	104	10	10/13/21 23:07	10/14/21 09:38		
n-Tetracosane (S)	0	%	31-152	10	10/13/21 23:07	10/14/21 09:38	646-31-1	S4
o-Terphenyl (S)	0	%	46-130	10	10/13/21 23:07	10/14/21 09:38	92-94-4	S4
Gasoline Range Organics	Analytical Met Pace Analytica		015B Preparation Me Kansas City	ethod: E	PA 5035A/5030B			
TPH-GRO <b>Surrogates</b>	ND	mg/kg	10.5	1	10/13/21 13:38	10/13/21 20:38		
4-Bromofluorobenzene (S)	92	%	63-121	1	10/13/21 13:38	10/13/21 20:38	460-00-4	
3260B MSV 5035A Low Level	Analytical Met Pace Analytica		260B Preparation Me Kansas City	ethod: E	PA 5035A/5030B			
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	
Kylene (Total) S <i>urrogates</i>	ND	ug/kg	15.8	1	10/13/21 13:50	10/15/21 10:12	1330-20-7	
Toluene-d8 (S)	101	%	80-120	1		10/15/21 10:12		
4-Bromofluorobenzene (S)	103	%	83-119	1		10/15/21 10:12		
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 Met	hod: ASTM	D2974					
	Pace Analytica	al Services -	Kansas City					
Percent Moisture	5.2	%	0.50	1		10/13/21 14:07		
9056 IC Anions	Analytical Met	hod: EPA 90	056 Preparation Met	hod: EP	A 9056			
	Pace Analytica	al 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: 603	82955002	Collected: 10/07/2	21 11:05	5 Received: 10	)/13/21 09:15 N	Matrix: Solid	
Results reported on a "dry weight								
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8015B Diesel Range Organics	Analytical Met		015B Preparation Me Kansas City	ethod: E	PA 3546			
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		10/14/21 13:09		
Surrogates	,,,,	9,119	13.0	•	37.3721.20.07	10.00		
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	10/11/01 12:00	02.04.4	

# **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.



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

	Lab ID: 603		Collected: 10/07/2				latrix: Solid	
Results reported on a "dry weight	t" basis and are adj	usted for p	ercent moisture, sa	mple s	size and any dilut	ions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
Gasoline Range Organics	Analytical Meth		015B Preparation Me	thod: E	EPA 5035A/5030B			
TRU ORG	•		•		10/10/01 10 00	10/10/01 00 51		
TPH-GRO <b>Surrogates</b>	ND	mg/kg	12.3	1	10/13/21 13:38	10/13/21 20:54		
1-Bromofluorobenzene (S)	94	%	63-121	1	10/13/21 13:38	10/13/21 20:54	460-00-4	
3260B MSV 5035A Low Level	Analytical Meth	nod: EPA 82	260B Preparation Me	thod: E	EPA 5035A/5030B			
	Pace Analytica							
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		10/15/21 10:33		
Xylene (Total)	ND	ug/kg	18.5	1		10/15/21 10:33		
Surrogates	112	ug/Ng	10.0	•	10/10/21 10:00	10/10/21 10:00	1000 20 1	
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		10/15/21 10:33		
Percent Moisture	Analytical Meth							
	Pace Analytica	I Services -	Kansas City					
Percent Moisture	11.0	%	0.50	1		10/13/21 14:07		
9056 IC Anions	•		056 Preparation Meth	od: EF	PA 9056			
	Pace Analytica	ı Services -	Kansas City					
			•					
Chloride	3420	mg/kg	554	50	10/13/21 14:58	10/14/21 13:06	16887-00-6	
Chloride Sample: FS-3	3420 Lab ID: 603		554 Collected: 10/07/2				16887-00-6 fatrix: Solid	
Sample: FS-3	Lab ID: 603	82955003	Collected: 10/07/2	1 11:10	Received: 10	/13/21 09:15 M		
	Lab ID: 603	82955003	Collected: 10/07/2	1 11:10	Received: 10	/13/21 09:15 M		Qua
Sample: FS-3 Results reported on a "dry weight Parameters	Lab ID: 603 t" basis and are adj Results	82955003 Justed for p	Collected: 10/07/2 percent moisture, sa Report Limit	1 11:10 <b>mple s</b> DF	D Received: 10 size and any dilut Prepared	/13/21 09:15 M	latrix: Solid	Qua
Sample: FS-3 Results reported on a "dry weight	Lab ID: 603 t" basis and are adj Results	82955003 fusted for p Units	Collected: 10/07/2 percent moisture, sa Report Limit	1 11:10 <b>mple s</b> DF	D Received: 10 size and any dilut Prepared	/13/21 09:15 M	latrix: Solid	Qua
Sample: FS-3 Results reported on a "dry weight Parameters 3015B Diesel Range Organics	Lab ID: 603 t" basis and are adj Results  Analytical Meth Pace Analytica	82955003 Fusted for p Units nod: EPA 80 Il Services -	Collected: 10/07/2 percent moisture, sa Report Limit 015B Preparation Me Kansas City	1 11:10 <b>mple s</b> DF thod: E	D Received: 10  Size and any dilute  Prepared  EPA 3546	/13/21 09:15 M <b>ions.</b> Analyzed	latrix: Solid	Qua
Sample: FS-3 Results reported on a "dry weight Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28)	Lab ID: 603 t" basis and are adj Results  Analytical Meth Pace Analytica	82955003 Fusted for p Units nod: EPA 80 Il Services - mg/kg	Collected: 10/07/2 percent moisture, sa Report Limit 015B Preparation Me Kansas City 10.9	1 11:10 mple s DF thod: E	O Received: 10 Size and any dilute Prepared EPA 3546 10/13/21 23:07	/13/21 09:15 M ions. Analyzed 10/14/21 13:17	latrix: Solid	Qua
Sample: FS-3 Results reported on a "dry weight Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35)	Lab ID: 603 t" basis and are adj Results  Analytical Meth Pace Analytica	82955003 Fusted for p Units nod: EPA 80 Il Services -	Collected: 10/07/2 percent moisture, sa Report Limit 015B Preparation Me Kansas City	1 11:10 <b>mple s</b> DF thod: E	O Received: 10 Size and any dilute Prepared EPA 3546 10/13/21 23:07	/13/21 09:15 M <b>ions.</b> Analyzed	latrix: Solid	Qua
Sample: FS-3 Results reported on a "dry weight Parameters  3015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates	Lab ID: 603 t" basis and are adj Results Analytical Meth Pace Analytica ND ND	82955003 Fusted for p Units nod: EPA 80 Il Services - mg/kg mg/kg	Collected: 10/07/2 percent moisture, sa Report Limit 015B Preparation Me Kansas City 10.9 10.9	1 11:10 mple s DF thod: E	Prepared  10/13/21 23:07 10/13/21 23:07	/13/21 09:15 M ions. Analyzed  10/14/21 13:17 10/14/21 13:17	fatrix: Solid  CAS No.	Qua
Sample: FS-3 Results reported on a "dry weight Parameters  3015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S)	Lab ID: 603 t" basis and are adj Results  Analytical Meth Pace Analytica ND ND ND	82955003 fusted for p Units nod: EPA 80 Il Services - mg/kg mg/kg	Collected: 10/07/2 percent moisture, sa Report Limit 015B Preparation Me Kansas City 10.9 10.9 31-152	1 11:10 mple s DF thod: E	Prepared  10/13/21 23:07 10/13/21 23:07	/13/21 09:15 M ions. Analyzed  10/14/21 13:17 10/14/21 13:17	CAS No.	Qua
Sample: FS-3 Results reported on a "dry weight Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Lab ID: 603 t" basis and are adj Results Analytical Meth Pace Analytica ND ND 91 83	B2955003 Fusted for p Units nod: EPA 80 Il Services - mg/kg mg/kg	Collected: 10/07/2 percent moisture, sa Report Limit 015B Preparation Me Kansas City 10.9 10.9 31-152 46-130	1 11:10  mple s  DF  thod: E	Prepared  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07	/13/21 09:15 M ions. Analyzed  10/14/21 13:17 10/14/21 13:17	CAS No.	Qua
Sample: FS-3 Results reported on a "dry weight Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Lab ID: 603 t" basis and are adj Results Analytical Meth Pace Analytica ND ND 91 83	B2955003 Fusted for p Units Find: EPA 80 Il Services - mg/kg mg/kg % % hod: EPA 80	Collected: 10/07/2 percent moisture, sa Report Limit 015B Preparation Me Kansas City 10.9 10.9 31-152 46-130 015B Preparation Me	1 11:10  mple s  DF  thod: E	Prepared  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07	/13/21 09:15 M ions. Analyzed  10/14/21 13:17 10/14/21 13:17	CAS No.	Qua
Sample: FS-3 Results reported on a "dry weight Parameters	Lab ID: 603 t" basis and are adj Results  Analytical Meth Pace Analytica ND ND 91 83  Analytical Meth	B2955003 Fusted for p Units Final EPA 80 Il Services - mg/kg mg/kg % hod: EPA 80 Il Services -	Collected: 10/07/2 percent moisture, sa Report Limit 015B Preparation Me Kansas City 10.9 10.9 31-152 46-130 015B Preparation Me	1 11:10  mple s  DF  thod: E	Prepared  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07	/13/21 09:15 M //ions.  Analyzed  10/14/21 13:17 10/14/21 13:17 10/14/21 13:17 10/14/21 13:17	CAS No.	Qua
Sample: FS-3 Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics	Lab ID: 603 t" basis and are adj Results  Analytical Meth Pace Analytica  ND ND  91 83  Analytical Meth Pace Analytical Meth	B2955003 Fusted for p Units Find: EPA 80 Il Services - mg/kg mg/kg % % hod: EPA 80	Collected: 10/07/2 percent moisture, sa Report Limit 015B Preparation Me Kansas City 10.9 10.9 31-152 46-130 015B Preparation Me Kansas City	1 11:10 mple s DF thod: E  1 1 1 1 thod: E	Prepared  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07	/13/21 09:15 M ions. Analyzed  10/14/21 13:17 10/14/21 13:17	CAS No.	Qua

# **REPORT OF LABORATORY ANALYSIS**

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

Sample: FS-3	Lab ID: 603	82955003	Collected: 10/07/2	21 11:10	Received: 10	/13/21 09:15 N	latrix: Solid	
Results reported on a "dry weight	" basis and are adj	iusted for p	ercent moisture, sa	mple s	ize and any dilut	ions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260B MSV 5035A Low Level	Analytical Meth	nod: EPA 82	60B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica	al 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 ug/kg	74.0	1		10/15/21 10:54		
Toluene	ND	ug/kg ug/kg	74.0	1		10/15/21 10:54		
Xylene (Total)	ND	ug/kg ug/kg	222	1		10/15/21 10:54		
Surrogates	ND	ug/Ng	222	•	10/10/21 10:00	10/10/21 10:04	1000 20 7	
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		10/15/21 10:54		
Percent Moisture	Analytical Meth	hod: ASTM I	D2974					
	Pace Analytica							
Percent Moisture	8.1	%	0.50	1		10/13/21 14:07		
9056 IC Anions	Analytical Meth	hod: FPA 90	56 Preparation Metl	nod: FP	A 9056			
9030 IC Allions	Pace Analytica			10a. Li	A 3030			
Chloride	•	_	·	400	10/10/01 11 50	10/14/21 13:18	10007.00.0	
ornoride	7090	mg/kg	1090	100	10/10/21 14:00	10/14/21 10.10	10001 00 0	
•	Lab ID: 603		Collected: 10/07/2				latrix: Solid	
•							latrix: Solid	Qua
Results reported on a "dry weight Parameters	Results	iusted for p Units	Report Limit	mple s	ize and any dilut	ions.		Qua
Results reported on a "dry weight Parameters	Results Analytical Meth	Units  Hod: EPA 80	Report Limit  15B Preparation Me	mple s	ize and any dilut	ions.		Qua
Results reported on a "dry weight Parameters	Results	Units Hod: EPA 80 al Services -	Report Limit  15B Preparation Me	mple s	ize and any dilut	ions.		Qua
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28)	Results Analytical Meth	Units  Hod: EPA 80  al Services -  mg/kg	Report Limit  15B Preparation Me	mple s	PA 3546	ions.		Qua
Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)	Results  Analytical Methors Pace Analytica	Units Hod: EPA 80 al Services -	Report Limit  15B Preparation Me Kansas City	DF ethod: E	PA 3546 10/13/21 23:07	Analyzed		Qua
Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates	Results  Analytical Methodology Pace Analytical ND ND	Units  Hod: EPA 80  al Services -  mg/kg  mg/kg	Report Limit  15B Preparation Me Kansas City  10.3 10.3	DF ethod: E	PA 3546  10/13/21 23:07 10/13/21 23:07	Analyzed  10/14/21 10:19 10/14/21 10:19	CAS No.	Qua
Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S)	Results  Analytical Methodology Pace Analytical ND ND 100	Units  Hod: EPA 80  al Services -  mg/kg  mg/kg  %	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152	DF DF ethod: E	PA 3546  10/13/21 23:07 10/13/21 23:07	Analyzed  10/14/21 10:19 10/14/21 10:19 10/14/21 10:19	CAS No.	Qua
Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S)	Results  Analytical Methodology Pace Analytical ND ND	Units  Hod: EPA 80  al Services -  mg/kg  mg/kg	Report Limit  15B Preparation Me Kansas City  10.3 10.3	DF ethod: E	PA 3546  10/13/21 23:07 10/13/21 23:07	Analyzed  10/14/21 10:19 10/14/21 10:19	CAS No.	Qua
Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Analytical Methodology Pace Analytical ND ND 100 81	units  Units  Hod: EPA 80  al Services -  mg/kg  mg/kg  %  %	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152	omple s  DF  ethod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07	Analyzed  10/14/21 10:19 10/14/21 10:19 10/14/21 10:19	CAS No.	Qua
Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Analytical Methodology Pace Analytical ND ND 100 81	units  Units  Hod: EPA 80  al Services -  mg/kg  mg/kg  %  %  hod: EPA 80	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me	omple s  DF  ethod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07	Analyzed  10/14/21 10:19 10/14/21 10:19 10/14/21 10:19	CAS No.	Qua
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics	Analytical Methodology  Results  Analytical Methodology  Pace Analytical  ND  ND  100  81  Analytical Methodology  Pace Analytical Methodology	units  units  units  nod: EPA 80  al Services -  mg/kg  mg/kg  %  hod: EPA 80  al Services -	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me Kansas City	property of the state of the st	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B	Analyzed  10/14/21 10:19 10/14/21 10:19 10/14/21 10:19 10/14/21 10:19	CAS No.	Qua
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO	Analytical Methodology  Analytical Methodology  Analytical Methodology  Analytical Methodology  Analytical Methodology  Analytical Methodology	units  Units  Hod: EPA 80  al Services -  mg/kg  mg/kg  %  %  hod: EPA 80	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me	omple s  DF  ethod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B	Analyzed  10/14/21 10:19 10/14/21 10:19 10/14/21 10:19	CAS No.	Qua
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates	Analytical Methodology  Results  Analytical Methodology  Pace Analytical  ND  ND  100  81  Analytical Methodology  Pace Analytical Methodology	units  units  units  nod: EPA 80  al Services -  mg/kg  mg/kg  %  hod: EPA 80  al Services -	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me Kansas City	property of the state of the st	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38	Analyzed  10/14/21 10:19 10/14/21 10:19 10/14/21 10:19 10/14/21 10:19	CAS No. 646-31-1 92-94-4	Qua
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)	Results  Analytical Methodology Pace Analytical ND ND 100 81 Analytical Methodology Pace Analytical ND ND 400 81 Analytical Methodology Pace Analytical ND 94	units  Hod: EPA 80  Al Services -  Mg/kg  Mg/kg  %  hod: EPA 80  Al Services -  Mg/kg	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me Kansas City  10.1 63-121	omple s  DF  othod: E  1  1  1  1  1  1  1  1  1  1  1  1  1	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38	Analyzed  10/14/21 10:19 10/14/21 10:19 10/14/21 10:19 10/14/21 10:19 10/13/21 21:25	CAS No. 646-31-1 92-94-4	Qua
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)	Results  Analytical Methodology Pace Analytical ND ND 100 81 Analytical Methodology Pace Analytical ND ND 400 81 Analytical Methodology Pace Analytical ND 94	units  Hod: EPA 80  Al Services -  Mg/kg  Mg/kg  %  hod: EPA 80  Al Services -  Mg/kg  Mhod: EPA 82	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me Kansas City  10.1 63-121  60B Preparation Me	omple s  DF  othod: E  1  1  1  1  1  1  1  1  1  1  1  1  1	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38	Analyzed  10/14/21 10:19 10/14/21 10:19 10/14/21 10:19 10/14/21 10:19 10/13/21 21:25	CAS No. 646-31-1 92-94-4	Qua
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)  8260B MSV 5035A Low Level	Results  Analytical Methodology  ND ND 100 81  Analytical Methodology Pace Analytical Methodology Pace Analytical Methodology Pace Analytical Methodology ND 94  Analytical Methodology	units Units  Hod: EPA 80 al Services - mg/kg mg/kg % hod: EPA 80 al Services - mg/kg % hod: EPA 80	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me Kansas City  10.1 63-121  60B Preparation Me Kansas City	omple s  DF  othod: E  1  1  1  1  1  1  1  1  1  1  1  1  1	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38 10/13/21 13:38 PA 5035A/5030B	Analyzed  10/14/21 10:19 10/14/21 10:19 10/14/21 10:19 10/14/21 10:19 10/13/21 21:25	CAS No. 646-31-1 92-94-4	Qua
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260B MSV 5035A Low Level  Benzene	Analytical Methodology Pace Analytical Methodology ND ND 100 81 Analytical Methodology Pace Analytical Methodology ND 94 Analytical Methodology Pace Analytical Methodology Pace Analytical Methodology ND	units  Units  Hod: EPA 80  Al Services -  Mg/kg  Mg/kg  %  Hod: EPA 80  Al Services -  Mg/kg  Mg/kg  Mg/kg  Mg/kg	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me Kansas City  10.1 63-121  60B Preparation Me Kansas City  5.0	property of the state of the st	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38 PA 5035A/5030B  10/13/21 13:38 PA 5035A/5030B	10/14/21 10:19 10/14/21 10:19 10/14/21 10:19 10/14/21 10:19 10/14/21 10:19 10/13/21 21:25 10/13/21 21:25	CAS No. 646-31-1 92-94-4 460-00-4	Qua
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260B MSV 5035A Low Level  Benzene Ethylbenzene	Results  Analytical Meth Pace Analytical ND ND 100 81  Analytical Meth Pace Analytical ND Pace Analytical ND 94  Analytical Meth Pace Analytical ND ND ND ND	iusted for p Units  Hod: EPA 80 al Services - mg/kg mg/kg % hod: EPA 80 al Services - mg/kg % hod: EPA 82 ug/kg ug/kg	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me Kansas City  10.1 63-121  60B Preparation Me Kansas City  5.0 5.0	omple s  DF  othod: E  1  1  1  1  thod: E  thod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38 PA 5035A/5030B  10/13/21 13:50 10/13/21 13:50 10/13/21 13:50	10/14/21 10:19 10/14/21 10:19 10/14/21 10:19 10/14/21 10:19 10/14/21 10:19 10/13/21 21:25 10/13/21 21:25	CAS No.  646-31-1 92-94-4  71-43-2 100-41-4	Qua
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260B MSV 5035A Low Level  Benzene Ethylbenzene Toluene	Results  Analytical Methodology Pace Analytical ND ND 100 81 Analytical Methodology Pace Analytical ND 94 Analytical Methodology Pace Analytical ND ND ND ND ND ND ND	iusted for p Units  Hod: EPA 80 al Services - mg/kg mg/kg % hod: EPA 80 al Services - mg/kg % hod: EPA 82 ug/kg ug/kg ug/kg	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me Kansas City  10.1 63-121  60B Preparation Me Kansas City  5.0 5.0 5.0	omple s  DF  othod: E  1  1  1  1  thod: E  thod: E	ize and any dilute Prepared  PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38 PA 5035A/5030B  10/13/21 13:50 10/13/21 13:50 10/13/21 13:50 10/13/21 13:50	10/14/21 10:19 10/14/21 10:19 10/14/21 10:19 10/14/21 10:19 10/14/21 10:19 10/13/21 21:25 10/13/21 21:25 10/15/21 11:14 10/15/21 11:14	CAS No.  646-31-1 92-94-4  71-43-2 100-41-4 108-88-3	Qua
Sample: FS-4 Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)  8260B MSV 5035A Low Level  Benzene Ethylbenzene Toluene Xylene (Total) Surrogates	Results  Analytical Meth Pace Analytical ND ND 100 81  Analytical Meth Pace Analytical ND Pace Analytical ND 94  Analytical Meth Pace Analytical ND ND ND ND	iusted for p Units  Hod: EPA 80 al Services - mg/kg mg/kg % hod: EPA 80 al Services - mg/kg % hod: EPA 82 ug/kg ug/kg	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me Kansas City  10.1 63-121  60B Preparation Me Kansas City  5.0 5.0	omple s  DF  othod: E  1  1  1  1  thod: E  thod: E	ize and any dilute Prepared  PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38 PA 5035A/5030B  10/13/21 13:50 10/13/21 13:50 10/13/21 13:50 10/13/21 13:50	10/14/21 10:19 10/14/21 10:19 10/14/21 10:19 10/14/21 10:19 10/14/21 10:19 10/13/21 21:25 10/13/21 21:25	CAS No.  646-31-1 92-94-4  71-43-2 100-41-4 108-88-3	Qua

# **REPORT OF LABORATORY ANALYSIS**

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

Sample: FS-4	Lab ID: 603	82955004	Collected: 10/07/2	21 11:15	Received: 10	/13/21 09:15 N	latrix: Solid	
Results reported on a "dry weight	" basis and are adj	usted for p	ercent moisture, sa	mple s	ize and any dilut	ions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260B MSV 5035A Low Level	Analytical Meth Pace Analytica		60B Preparation Me Kansas City	ethod: E	PA 5035A/5030B			
Surrogates 4-Bromofluorobenzene (S) 1,2-Dichlorobenzene-d4 (S)	104 97	% %	83-119 80-120	1 1		10/15/21 11:14 10/15/21 11:14		
Percent Moisture	Analytical Meth	nod: ASTM [	02974					
	Pace Analytica	l Services -	Kansas City					
Percent Moisture	5.7	%	0.50	1		10/13/21 14:08		
9056 IC Anions	Analytical Meth Pace Analytica		56 Preparation Meth Kansas City	hod: EP	A 9056			
Chloride	1880	mg/kg	104	10	10/13/21 14:58	10/14/21 10:08	16887-00-6	
Sample: FS-5 Results reported on a "dry weight	Lab ID: 603 basis and are adj		Collected: 10/07/2 ercent moisture, sa				latrix: Solid	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
		nod: EPA 80	15B Preparation Me		<del>-</del>	Analyzed	CAS No.	Qua
Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28)	Analytical Meth	nod: EPA 80	15B Preparation Me		PA 3546	Analyzed 10/14/21 12:12	CAS No.	Qua
RO15B Diesel Range Organics  FPH-DRO (C10-C28)  FPH-ORO (C28-C35)	Analytical Meth	nod: EPA 80 I Services -	15B Preparation Me Kansas City	ethod: E	PA 3546		CAS No.	Qua
RO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35)  Surrogates	Analytical Meth Pace Analytica 38.7 55.8	nod: EPA 80 I Services - mg/kg mg/kg	15B Preparation Me Kansas City 10.6 10.6	ethod: E	PA 3546 10/13/21 23:07 10/13/21 23:07	10/14/21 12:12 10/14/21 12:12		Qua
PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates I-Tetracosane (S)	Analytical Meth Pace Analytica 38.7	nod: EPA 80 I Services - mg/kg	15B Preparation Me Kansas City 10.6	ethod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07	10/14/21 12:12	646-31-1	Qua
GO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)	Analytical Meth Pace Analytica 38.7 55.8 101 87 Analytical Meth	nod: EPA 80 I Services - mg/kg mg/kg % % nod: EPA 80	15B Preparation Me Kansas City 10.6 10.6 31-152 46-130 15B Preparation Me	ethod: E 1 1 1 1	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07	10/14/21 12:12 10/14/21 12:12 10/14/21 12:12	646-31-1	Qua
B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) n-Terphenyl (S)  Gasoline Range Organics	Analytical Meth Pace Analytica 38.7 55.8 101 87 Analytical Meth Pace Analytica	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services -	15B Preparation Me Kansas City 10.6 10.6 31-152 46-130 15B Preparation Me Kansas City	ethod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B	10/14/21 12:12 10/14/21 12:12 10/14/21 12:12 10/14/21 12:12	646-31-1	Qua
PH-DRO (C10-C28) PH-ORO (C28-C35) FH-ORO (C28-C35) FUTUR (S) FUTUR	Analytical Meth Pace Analytica 38.7 55.8 101 87 Analytical Meth	nod: EPA 80 I Services - mg/kg mg/kg % % nod: EPA 80	15B Preparation Me Kansas City 10.6 10.6 31-152 46-130 15B Preparation Me	ethod: E 1 1 1 1	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B	10/14/21 12:12 10/14/21 12:12 10/14/21 12:12	646-31-1	Qua
PH-DRO (C10-C28) PH-ORO (C28-C35) FH-ORO (C28-C35) FUTUR (S) FUTUR	Analytical Meth Pace Analytica 38.7 55.8 101 87 Analytical Meth Pace Analytica	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services -	15B Preparation Me Kansas City 10.6 10.6 31-152 46-130 15B Preparation Me Kansas City	ethod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38	10/14/21 12:12 10/14/21 12:12 10/14/21 12:12 10/14/21 12:12	646-31-1 92-94-4	Qua
GO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 1-Bromofluorobenzene (S)	Analytical Meth Pace Analytica 38.7 55.8 101 87 Analytical Meth Pace Analytica ND 93 Analytical Meth	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg % nod: EPA 80	15B Preparation Me Kansas City  10.6 10.6 31-152 46-130 15B Preparation Me Kansas City  12.2 63-121 60B Preparation Me	ethod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38 10/13/21 13:38	10/14/21 12:12 10/14/21 12:12 10/14/21 12:12 10/14/21 12:12 10/14/21 12:12 10/13/21 21:41	646-31-1 92-94-4	Qua
GO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates D-Tetracosane (S) D-Terphenyl (S) Gasoline Range Organics  FPH-GRO Surrogates I-Bromofluorobenzene (S) G260B MSV 5035A Low Level	Analytical Meth Pace Analytica 38.7 55.8 101 87 Analytical Meth Pace Analytica ND 93 Analytical Meth Pace Analytical Meth	mod: EPA 80 I Services - mg/kg mg/kg % mod: EPA 80 I Services - mg/kg %	15B Preparation Me Kansas City  10.6 10.6 31-152 46-130 15B Preparation Me Kansas City  12.2 63-121 60B Preparation Me Kansas City	ethod: E  1 1 1 1 1 1 1 1 1 tethod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B 10/13/21 13:38 10/13/21 13:38 PA 5035A/5030B	10/14/21 12:12 10/14/21 12:12 10/14/21 12:12 10/14/21 12:12 10/13/21 21:41 10/13/21 21:41	646-31-1 92-94-4 460-00-4	Qua
RO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) FURDER OF SURFICE OF SU	Analytical Meth Pace Analytica  38.7 55.8  101 87  Analytical Meth Pace Analytical ND  93  Analytical Meth Pace Analytical ND	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg % nod: EPA 82 I Services - ug/kg	15B Preparation Me Kansas City  10.6 10.6 31-152 46-130 15B Preparation Me Kansas City  12.2 63-121 60B Preparation Me Kansas City  6.1	ethod: E  1 1 1 1 1 1 1 1 tethod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38 PA 5035A/5030B  10/13/21 13:38 PA 5035A/5030B	10/14/21 12:12 10/14/21 12:12 10/14/21 12:12 10/14/21 12:12 10/13/21 21:41 10/13/21 21:41 10/15/21 11:34	646-31-1 92-94-4 460-00-4 71-43-2	Qua
PH-DRO (C10-C28) PH-DRO (C28-C35) FH-ORO (C28-C35) FURDAMENTAL STATEMENT OF THE STATEMENT O	Analytical Meth Pace Analytica  38.7 55.8  101 87  Analytical Meth Pace Analytical ND 93  Analytical Meth Pace Analytical ND D ND ND	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg % nod: EPA 82 I Services - ug/kg ug/kg	15B Preparation Me Kansas City  10.6 10.6 31-152 46-130 15B Preparation Me Kansas City  12.2 63-121 60B Preparation Me Kansas City  6.1 6.1	ethod: E  1 1 1 1 1 1 1 1 ethod: E  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38 PA 5035A/5030B  10/13/21 13:50 10/13/21 13:50 10/13/21 13:50	10/14/21 12:12 10/14/21 12:12 10/14/21 12:12 10/14/21 12:12 10/13/21 21:41 10/13/21 21:41 10/15/21 11:34 10/15/21 11:34	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4	Qua
RO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates D-Tetracosane (S) D-Terphenyl (S) Gasoline Range Organics  FPH-GRO Surrogates L-Bromofluorobenzene (S) R260B MSV 5035A Low Level  Genzene Ethylbenzene Foluene Kylene (Total)	Analytical Meth Pace Analytica  38.7 55.8  101 87  Analytical Meth Pace Analytical ND  93  Analytical Meth Pace Analytical ND	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg % nod: EPA 82 I Services - ug/kg	15B Preparation Me Kansas City  10.6 10.6 31-152 46-130 15B Preparation Me Kansas City  12.2 63-121 60B Preparation Me Kansas City  6.1	ethod: E  1 1 1 1 1 1 1 1 tethod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38 PA 5035A/5030B  10/13/21 13:50 10/13/21 13:50 10/13/21 13:50	10/14/21 12:12 10/14/21 12:12 10/14/21 12:12 10/14/21 12:12 10/13/21 21:41 10/13/21 21:41 10/15/21 11:34	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	Qua
GO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics  FPH-GRO Surrogates I-Bromofluorobenzene (S) G260B MSV 5035A Low Level  Genzene Ethylbenzene Foluene Kylene (Total) Surrogates	Analytical Meth Pace Analytica  38.7 55.8  101 87  Analytical Meth Pace Analytical ND 93  Analytical Meth Pace Analytical ND ND ND ND ND ND ND	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg % nod: EPA 82 I Services - ug/kg ug/kg ug/kg ug/kg	15B Preparation Me Kansas City  10.6 10.6 31-152 46-130 15B Preparation Me Kansas City  12.2 63-121 60B Preparation Me Kansas City  6.1 6.1 6.1 18.3	ethod: E  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38 PA 5035A/5030B  10/13/21 13:50 10/13/21 13:50 10/13/21 13:50 10/13/21 13:50	10/14/21 12:12 10/14/21 12:12 10/14/21 12:12 10/14/21 12:12 10/13/21 21:41 10/13/21 21:41 10/15/21 11:34 10/15/21 11:34 10/15/21 11:34 10/15/21 11:34	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7	Qua
3015B Diesel Range Organics	Analytical Meth Pace Analytica  38.7 55.8  101 87  Analytical Meth Pace Analytical ND 93  Analytical Meth Pace Analytical ND ND ND ND	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg % nod: EPA 82 I Services - ug/kg ug/kg ug/kg	15B Preparation Me Kansas City  10.6 10.6 31-152 46-130 15B Preparation Me Kansas City  12.2 63-121 60B Preparation Me Kansas City  6.1 6.1 6.1	ethod: E  1 1 1 1 1 1 1 1 ethod: E  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38 PA 5035A/5030B  10/13/21 13:50 10/13/21 13:50 10/13/21 13:50 10/13/21 13:50 10/13/21 13:50 10/13/21 13:50	10/14/21 12:12 10/14/21 12:12 10/14/21 12:12 10/14/21 12:12 10/13/21 21:41 10/13/21 21:41 10/15/21 11:34 10/15/21 11:34 10/15/21 11:34	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7 2037-26-5	Qua

# **REPORT OF LABORATORY ANALYSIS**

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Sample: FS-5 Results reported on a "dry weight" Parameters	Lab ID: 603 basis and are adj		Collected: 10/07/2			/13/21 09:15 M		
		usted for p	ercent moisture, sa	mple s	ize and any dilut		latrix: Solid	
	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Meth	nod: ASTM [			•	•	-	
	Pace Analytica	l Services -	Kansas City					
Percent Moisture	11.7	%	0.50	1		10/13/21 14:08		
0056 IC Anions		Analytical Method: EPA 9056 Preparation Method: EPA 9056						
	Pace Analytica	l 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: 603	82955006	Collected: 10/07/2	21 11:25	Received: 10	/13/21 09:15 M	Matrix: Solid	
Results reported on a "dry weight"	basis and are adj	usted for p	ercent moisture, sa	mple s	ize and any dilut	ions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	•		15B Preparation Me	ethod: E	PA 3546			
	Pace Analytica	i Services -	Kansas City					
ГРН-DRO (С10-С28)	ND	mg/kg	11.1	1	10/13/21 23:07	10/14/21 10:35		
ГРН-ORO (C28-C35)	ND	mg/kg	11.1	1	10/13/21 23:07	10/14/21 10:35		
Surrogates	90	0/	24 452	4	10/12/21 22:07	10/11/01 10:25	646 24 4	
n-Tetracosane (S) o-Terphenyl (S)	89 78	% %	31-152 46-130	1 1		10/14/21 10:35 10/14/21 10:35		
5- Terprienyi (3)	70	/0	40-130	'	10/13/21 23.07	10/14/21 10.33	92-94-4	
Gasoline Range Organics	Analytical Meth Pace Analytica		15B Preparation Me Kansas City	ethod: E	PA 5035A/5030B			
ГРН-GRO	ND	mg/kg	12.5	1	10/13/21 13:38	10/13/21 21:56		
Surrogates		0 0						
1-Bromofluorobenzene (S)	95	%	63-121	1	10/13/21 13:38	10/13/21 21:56	460-00-4	
3260B MSV 5035A Low Level	Analytical Meth	nod: EPA 82	60B Preparation Me	ethod: E	PA 5035A/5030B			
	Pace Analytica		•					
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		10/15/21 11:55		
Toluene	ND	ug/kg	6.3	1		10/15/21 11:55		
(Ylene (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	
1-Bromofluorobenzene (S)	107	%	83-119	1		10/15/21 11:55		
,2-Dichlorobenzene-d4 (S)	97	%	80-120	1	10/13/21 13:50	10/15/21 11:55	2199-69-1	
Percent Moisture	Analytical Meth	nod: ASTM [	02974					
	Pace Analytica	l Services -	Kansas City					
Percent Moisture	11.8	%	0.50	1		10/13/21 14:08		
0056 IC Anions	Analytical Meth	nnd. EDV au	56 Preparation Metl	hod: FD	A 9056			

# **REPORT OF LABORATORY ANALYSIS**

1140 100

12900

mg/kg

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Date: 10/15/2021 04:09 PM

Chloride

10/13/21 14:58 10/14/21 13:42 16887-00-6



60382955
VGEU 2801-02

Sample: FS-7	Lab ID: 603	82955007	Collected: 10/07/2	1 11:30	Received: 10	/13/21 09:15 N	/latrix: Solid	
Results reported on a "dry weight	" basis and are adj	iusted for p	ercent moisture, sa	mple s	ize and any dilut	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
015B Diesel Range Organics	Analytical Metl	nod: EPA 80	15B Preparation Me	thod: E	PA 3546			
	Pace Analytica	l Services -	Kansas City					
ГРН-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		10/14/21 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		10/14/21 10:43		
Gasoline Range Organics	Analytical Metl		115B Preparation Me Kansas City	thod: E	PA 5035A/5030B			
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	
3260B MSV 5035A Low Level	Analytical Metl Pace Analytica		260B Preparation Me Kansas City	thod: E	PA 5035A/5030B			
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	
oluene	ND	ug/kg	5.1	1	10/13/21 13:50	10/15/21 12:15	108-88-3	
(ylene (Total) Surrogates	ND	ug/kg	15.2	1	10/13/21 13:50	10/15/21 12:15	1330-20-7	
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	
,2-Dichlorobenzene-d4 (S)	96	%	80-120	1	10/13/21 13:50	10/15/21 12:15	2199-69-1	
Percent Moisture	Analytical Met	nod: ASTM	D2974					
	Pace Analytica	l Services -	Kansas City					
Percent Moisture	6.0	%	0.50	1		10/13/21 14:08		
9056 IC Anions	Analytical Met	nod: EPA 90	56 Preparation Meth	od: EP	A 9056			
	Pace Analytica	l Services -	Kansas City					
Chloride	1770	mg/kg	104	10	10/13/21 14:58	10/14/21 11:08	16887-00-6	
Sample:  FS-9 Res <i>ults reported on a "dry weight</i>	Lab ID: 603 basis and are adu		Collected: 10/11/2				Matrix: Solid	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8015B Diesel Range Organics	Analytical Metl Pace Analytica		15B Preparation Me	thod: E	PA 3546			
ГРН-DRO (С10-С28)	ND	mg/kg	10	1	10/13/21 23:07	10/14/21 10:51		
TPH-ORO (C28-C35)	ND	mg/kg	10	1		10/14/21 10:51		
Surrogates		שיי ישייי		•	2. 12.2. 20.07	2. 1 2. 10.01		
n-Tetracosane (S)	97	%	31-152	1	10/13/21 23:07	10/14/21 10:51	646-31-1	
o-Terphenyl (S)	82	%	46-130	1	10/13/21 23:07	10/14/21 10:51	92-94-4	

# **REPORT OF LABORATORY ANALYSIS**

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

	Lab ID: 603		Collected: 10/11/2				latrix: Solid	
Results reported on a "dry weight	_	usted for p	ercent moisture, sa	-	ize and any dilut	ions.		
Parameters	Results —	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
Gasoline Range Organics	Analytical Meth	nod: EPA 80	15B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica	l 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	10/12/21 12:20	10/13/21 22:27	460 00 4	
` ,						10/13/21 22.21	400-00-4	
8260B MSV 5035A Low Level	•		60B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica		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	100	0/	90.400	4	10/12/21 12:50	10/15/01 10:05	2027 26 F	
Toluene-d8 (S)	103	%	80-120	1		10/15/21 12:35		
4-Bromofluorobenzene (S)	106	%	83-119	1		10/15/21 12:35		
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 Meth	nod: ASTM I	D2974					
	Pace Analytica	l Services -	Kansas City					
Percent Moisture	4.2	%	0.50	1		10/13/21 14:08		
9056 IC Anions	Analytical Meth	nod: EPA 90	56 Preparation Meth	od: EF	PA 9056			
JUJU IO AIIIOIIO								
Jood to Amond	Pace Analytica	l Services -	Kansas City					
	Pace Analytica 683	l Services - mg/kg	Kansas City 101	10	10/13/21 14:58	10/14/21 11:19	16887-00-6	
Chloride	683	mg/kg	101					
Chloride Sample: FS-10	683 Lab ID: 603	mg/kg <b>B2955009</b>	101 Collected: 10/11/2	1 09:07	7 Received: 10	/13/21 09:15 M	16887-00-6 Matrix: Solid	
Chloride Sample: FS-10 Results reported on a "dry weight	683 Lab ID: 603 t" basis and are adj	mg/kg 82955009 usted for p	101 Collected: 10/11/2 ercent moisture, sa	1 09:07 <b>mple</b> s	7 Received: 10	/13/21 09:15 M	Matrix: Solid	Qua
Chloride Sample: FS-10	683 Lab ID: 603	mg/kg <b>B2955009</b>	101 Collected: 10/11/2	1 09:07	7 Received: 10	/13/21 09:15 M		Qua
Chloride  Sample: FS-10  Results reported on a "dry weight  Parameters	683  Lab ID: 603: t" basis and are adj  Results	mg/kg 82955009 usted for p Units	101 Collected: 10/11/2 ercent moisture, sa	1 09:07 <b>mple s</b> DF	7 Received: 10 ize and any dilute Prepared	/13/21 09:15 M	Matrix: Solid	Qua
Chloride  Sample: FS-10  Results reported on a "dry weight  Parameters	683  Lab ID: 603: t" basis and are adj  Results	mg/kg  82955009  Units  nod: EPA 80	Collected: 10/11/2 ercent moisture, sa Report Limit 15B Preparation Me	1 09:07 <b>mple s</b> DF	7 Received: 10 ize and any dilute Prepared	/13/21 09:15 M	Matrix: Solid	Qua
Chloride  Sample: FS-10  Results reported on a "dry weight Parameters  8015B Diesel Range Organics	Lab ID: 603i " basis and are adj Results  Analytical Meth Pace Analytica	mg/kg 82955009 usted for p Units nod: EPA 80	Collected: 10/11/2 ercent moisture, sa Report Limit 15B Preparation Me	1 09:07 <b>mple s</b> DF	7 Received: 10 size and any dilute Prepared EPA 3546	/13/21 09:15 M	Matrix: Solid	Qu
Chloride  Sample: FS-10  Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28)	Lab ID: 603: t" basis and are adj Results Analytical Meth Pace Analytica	mg/kg 82955009 usted for p Units nod: EPA 80 I Services - mg/kg	Collected: 10/11/2 ercent moisture, san Report Limit  15B Preparation Me Kansas City  10.6	1 09:07  mple s  DF  thod: E	7 Received: 10 size and any dilute Prepared EPA 3546 10/13/21 23:07	/13/21 09:15 M ions. Analyzed 10/14/21 10:59	Matrix: Solid	Qu
Chloride  Sample: FS-10  Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)	Lab ID: 603i " basis and are adj Results  Analytical Meth Pace Analytica	mg/kg 82955009 usted for p Units nod: EPA 80	Collected: 10/11/2 ercent moisture, sa Report Limit  15B Preparation Me Kansas City	1 09:07 <b>mple s</b> DF  thod: E	7 Received: 10 size and any dilute Prepared EPA 3546 10/13/21 23:07	/13/21 09:15 M <b>ions.</b> Analyzed	Matrix: Solid	Qua
Chloride  Sample: FS-10  Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)  Surrogates	Lab ID: 603: t" basis and are adj Results Analytical Meth Pace Analytica ND ND	mg/kg  82955009  Units  nod: EPA 80 I Services - mg/kg mg/kg	Collected: 10/11/2 ercent moisture, sar Report Limit 15B Preparation Me Kansas City 10.6 10.6	1 09:07  mple s  DF  thod: E	7 Received: 10  Fize and any dilute  Prepared  EPA 3546  10/13/21 23:07 10/13/21 23:07	/13/21 09:15 M ions. Analyzed 10/14/21 10:59 10/14/21 10:59	fatrix: Solid  CAS No.	Qua
Chloride  Sample: FS-10  Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)  Surrogates n-Tetracosane (S)	Lab ID: 603: t" basis and are adj Results  Analytical Meth Pace Analytica ND ND 111	mg/kg 82955009 usted for p Units nod: EPA 80 I Services - mg/kg mg/kg	Collected: 10/11/2 ercent moisture, sar Report Limit 15B Preparation Me Kansas City 10.6 10.6 31-152	1 09:07  mple s  DF  thod: E	7 Received: 10  ize and any dilute Prepared  EPA 3546  10/13/21 23:07 10/13/21 23:07	/13/21 09:15 M ions. Analyzed  10/14/21 10:59 10/14/21 10:59 10/14/21 10:59	CAS No.	Qua
Chloride  Sample: FS-10  Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)  Surrogates n-Tetracosane (S)	Lab ID: 603: t" basis and are adj Results Analytical Meth Pace Analytica ND ND	mg/kg  82955009  Units  nod: EPA 80 I Services - mg/kg mg/kg	Collected: 10/11/2 ercent moisture, sar Report Limit 15B Preparation Me Kansas City 10.6 10.6	1 09:07  mple s  DF  thod: E	7 Received: 10  ize and any dilute Prepared  EPA 3546  10/13/21 23:07 10/13/21 23:07	/13/21 09:15 M ions. Analyzed 10/14/21 10:59 10/14/21 10:59	CAS No.	Qua
Chloride  Sample: FS-10  Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35)  Surrogates n-Tetracosane (S) p-Terphenyl (S)	Lab ID: 603: t" basis and are adj Results  Analytical Meth Pace Analytica ND ND 111 82	mg/kg  82955009  Units  nod: EPA 80 I Services -  mg/kg mg/kg % % nod: EPA 80	Collected: 10/11/2 ercent moisture, sar Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152 46-130  15B Preparation Me	1 09:07  mple s  DF  thod: E	Prepared  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07	/13/21 09:15 M ions. Analyzed  10/14/21 10:59 10/14/21 10:59 10/14/21 10:59	CAS No.	Qua
Sample: FS-10 Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics	Lab ID: 603: t" basis and are adj Results  Analytical Meth Pace Analytica ND ND 111 82 Analytical Meth	mg/kg  82955009  Units  nod: EPA 80 I Services -  mg/kg mg/kg % % nod: EPA 80	Collected: 10/11/2 ercent moisture, sar Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152 46-130  15B Preparation Me	1 09:07  mple s  DF  thod: E	7 Received: 10 size and any dilute Prepared  EPA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 EPA 5035A/5030B	/13/21 09:15 M ions. Analyzed  10/14/21 10:59 10/14/21 10:59 10/14/21 10:59	CAS No.	Qua
Chloride Sample: FS-10 Results reported on a "dry weight	Lab ID: 603: t" basis and are adj Results  Analytical Meth Pace Analytica ND ND 111 82  Analytical Meth Pace Analytical Meth	mg/kg  82955009  usted for p  Units  nod: EPA 80 I Services -  mg/kg  mg/kg  %  %  Nod: EPA 80	Collected: 10/11/2 ercent moisture, sa. Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152 46-130  15B Preparation Me Kansas City	1 09:07 mple s DF thod: E	7 Received: 10 size and any dilute Prepared  EPA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 EPA 5035A/5030B	/13/21 09:15 M //ions.  Analyzed  10/14/21 10:59 10/14/21 10:59 10/14/21 10:59	CAS No.	Qua

# **REPORT OF LABORATORY ANALYSIS**

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

Sample: FS-10	Lab ID: 603	0290009	Collected: 10/11/2	1 09:07	' Received: 10	/13/21 09:15 N	latrix: Solid	
Results reported on a "dry weight	t" basis and are adj	iusted for pe	rcent moisture, sa	mple s	ize and any dilut	ions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260B MSV 5035A Low Level	Analytical Meth	nod: EPA 826	0B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica							
Benzene	ND	ug/kg	5.3	1	10/13/21 13:50	10/15/21 12:55	71_//3_2	
Ethylbenzene	ND ND	ug/kg ug/kg	5.3	1		10/15/21 12:55		
Toluene	ND ND		5.3	1		10/15/21 12:55		
Xylene (Total)		ug/kg		1		10/15/21 12:55		
Surrogates	ND	ug/kg	15.9	1	10/13/21 13.50	10/13/21 12.33	1330-20-7	
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		10/15/21 12:55		
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1		10/15/21 12:55		
				-		. 0, . 0, 0	2.00 00 .	
Percent Moisture	Analytical Metheral Pace Analytica							
Percent Moisture	6.8	%	0.50	1		10/13/21 14:08		
Percent Moisture	0.0	%	0.50	I		10/13/21 14:06		
9056 IC Anions	Analytical Meth	nod: EPA 905	6 Preparation Meth	nod: EP	A 9056			
	Pace Analytica	ıl Services - K	Cansas City					
Chloride	9720	mg/kg	1110	100	10/13/21 14:58	10/14/21 13:53	16887-00-6	
Results reported on a "dry weight	_	iusted for pe		mple s	ize and any dilut	ions.	latrix: Solid	
Sample: FS-11 Results reported on a "dry weight Parameters							latrix: Solid	Qua
Results reported on a "dry weight Parameters	Results	Units	Report Limit	DF	Prepared	ions.		Qua
Results reported on a "dry weight	Results Analytical Meth	Units Ond: EPA 801	Report Limit	DF	Prepared	ions.		Qua
Results reported on a "dry weight Parameters  8015B Diesel Range Organics	Results	Units Ond: EPA 801	Report Limit	DF	Prepared	ions.		Qua
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28)	Results Analytical Meth	Units Ond: EPA 801	Report Limit	DF	PA 3546	ions.		Qua
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)	Results  Analytical Methodology Pace Analytical	Units  Hod: EPA 801  Il Services - k	Report Limit 5B Preparation Me Kansas City	DF ethod: E	PA 3546	Analyzed		Qua
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)  Surrogates	Results  Analytical Methodology Pace Analytical ND ND	Units  Hod: EPA 801  Il Services - k  mg/kg  mg/kg	Report Limit 5B Preparation Me (ansas City 10.6 10.6	DF ethod: E	PA 3546  10/13/21 23:07 10/13/21 23:07	Analyzed  10/14/21 11:07 10/14/21 11:07	CAS No.	Qua
Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S)	Results  Analytical Meth Pace Analytica ND ND 94	Units  Hod: EPA 801  Il Services - k  mg/kg  mg/kg  mg/kg	Report Limit 5B Preparation Me Cansas City 10.6 10.6 31-152	DF ethod: E	PA 3546  10/13/21 23:07 10/13/21 23:07	Analyzed  10/14/21 11:07 10/14/21 11:07 10/14/21 11:07	CAS No. 646-31-1	Qua
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S)	Results  Analytical Methodology Pace Analytical ND ND	Units  Hod: EPA 801  Il Services - k  mg/kg  mg/kg	Report Limit 5B Preparation Me (ansas City 10.6 10.6	DF ethod: E	PA 3546  10/13/21 23:07 10/13/21 23:07	Analyzed  10/14/21 11:07 10/14/21 11:07	CAS No. 646-31-1	Qua
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Analytical Methodology Pace Analytical ND ND 94 77	Units  Units  Hod: EPA 801  Il Services - k  mg/kg  mg/kg  %  %	Report Limit  5B Preparation Metansas City  10.6 10.6 31-152 46-130	ethod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07	Analyzed  10/14/21 11:07 10/14/21 11:07 10/14/21 11:07	CAS No. 646-31-1	Qua
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Analytical Methodology Pace Analytical ND ND 94 77	units  Units  nod: EPA 801  Services - k  mg/kg  mg/kg  %  %  nod: EPA 801	Report Limit  5B Preparation Me (ansas City  10.6 10.6 31-152 46-130  5B Preparation Me	ethod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07	Analyzed  10/14/21 11:07 10/14/21 11:07 10/14/21 11:07	CAS No. 646-31-1	Qua
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics	Results  Analytical Methodology Pace Analytical ND ND 94 77  Analytical Methodology Pace Analytical	units  Units  Hod: EPA 801  Il Services - k  mg/kg  mg/kg  %  %  hod: EPA 801	Report Limit  5B Preparation Me  Kansas City  10.6 10.6 31-152 46-130  5B Preparation Me  Kansas City	emple s  DF  ethod: E  1  1  1  thod: E  ethod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B	Analyzed  10/14/21 11:07 10/14/21 11:07 10/14/21 11:07 10/14/21 11:07	CAS No. 646-31-1	Qua
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO	Analytical Methodology  Analytical Methodology  Analytical Methodology  Analytical Methodology  Analytical Methodology  Analytical Methodology	units  Units  nod: EPA 801  Services - k  mg/kg  mg/kg  %  %  nod: EPA 801	Report Limit  5B Preparation Me  Kansas City  10.6 10.6 31-152 46-130  5B Preparation Me  Kansas City	ethod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07	Analyzed  10/14/21 11:07 10/14/21 11:07 10/14/21 11:07 10/14/21 11:07	CAS No. 646-31-1	Qua
Parameters  Bo15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates	Results  Analytical Methodology Pace Analytical ND ND 94 77 Analytical Methodology Pace Analytical ND ND ND ND	units  units  units  nod: EPA 801  services - k  mg/kg  mg/kg  %  nod: EPA 801  services - k  mg/kg	Report Limit  5B Preparation Me  (ansas City  10.6  10.6  31-152  46-130  5B Preparation Me  (ansas City  10.6	omple s  DF  othod: E  1  1  1  thod: Ethod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38	Analyzed  10/14/21 11:07 10/14/21 11:07 10/14/21 11:07 10/14/21 11:07	CAS No. 646-31-1 92-94-4	Qua
Parameters  Bo15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates	Results  Analytical Methodology Pace Analytical ND ND 94 77 Analytical Methodology Pace Analytical ND ND 94 77 Analytical Methodology Pace Analytical ND 94	units  units  nod: EPA 801  Services - k  mg/kg  mg/kg  %  nod: EPA 801  Services - k  mg/kg	Report Limit  5B Preparation Me Cansas City  10.6 10.6 31-152 46-130 5B Preparation Me Cansas City  10.6 63-121	omple s  DF  othod: E  1  1  1  thod: E  thod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38	Analyzed  10/14/21 11:07 10/14/21 11:07 10/14/21 11:07 10/14/21 11:07	CAS No. 646-31-1 92-94-4	Qua
Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Results  Analytical Methodology Pace Analytical ND ND 94 77 Analytical Methodology Pace Analytical ND 94 Analytical Methodology 94 Analytical Methodology	units  Inod: EPA 801 Il Services - k  mg/kg  mg/kg  %  hod: EPA 801 Il Services - k  mg/kg  mg/kg	Report Limit  5B Preparation Me  Cansas City  10.6 10.6 31-152 46-130  5B Preparation Me  Cansas City  10.6 63-121	omple s  DF  othod: E  1  1  1  thod: E  thod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38	Analyzed  10/14/21 11:07 10/14/21 11:07 10/14/21 11:07 10/14/21 11:07	CAS No. 646-31-1 92-94-4	Qua
Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)	Results  Analytical Methodology Pace Analytical ND ND 94 77 Analytical Methodology Pace Analytical ND ND 94 77 Analytical Methodology Pace Analytical ND 94	units  Inod: EPA 801 Il Services - k  mg/kg  mg/kg  %  hod: EPA 801 Il Services - k  mg/kg  mg/kg	Report Limit  5B Preparation Me  Cansas City  10.6 10.6 31-152 46-130  5B Preparation Me  Cansas City  10.6 63-121	omple s  DF  othod: E  1  1  1  thod: E  thod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38	Analyzed  10/14/21 11:07 10/14/21 11:07 10/14/21 11:07 10/14/21 11:07	CAS No. 646-31-1 92-94-4	Qua
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S) B260B MSV 5035A Low Level	Results  Analytical Methodology Pace Analytical ND ND 94 77 Analytical Methodology Pace Analytical ND 94 Analytical Methodology Pace Analytical ND 94 Analytical Methodology	units  Units  Hod: EPA 801  Il Services - K  mg/kg  mg/kg  %  hod: EPA 801  Il Services - K  mg/kg  mg/kg  hod: EPA 801	Report Limit  Report Limit  5B Preparation Me  Cansas City  10.6  10.6  31-152  46-130  5B Preparation Me  Cansas City  10.6  63-121  0B Preparation Me  Cansas City	omple s  DF  othod: E  1  1  1  1  1  1  thod: E  thod: E	PREPARED PREPARED PREPARED PREPARED PREPARED 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PREPARED 10/13/21 13:38 10/13/21 13:38 PREPARED	10/14/21 11:07 10/14/21 11:07 10/14/21 11:07 10/14/21 11:07 10/14/21 11:07 10/13/21 23:30 10/13/21 23:30	CAS No. 646-31-1 92-94-4 460-00-4	Qua
Parameters  B015B Diesel Range Organics  B015B Diesel Range Organics  B1PH-DRO (C10-C28)  FPH-ORO (C28-C35)  B1PH-ORO (C28-C35)  B1PH-GRO (C38-C35)  B25	Results  Analytical Meth Pace Analytical ND ND 94 77 Analytical Meth Pace Analytical ND 94 Analytical Meth Pace Analytical ND 94 Analytical Meth Pace Analytical ND	units  Units  Hod: EPA 801  Il Services - k  mg/kg  mg/kg  %  hod: EPA 801  Il Services - k  mg/kg  mg/kg	Report Limit  5B Preparation Me (ansas City  10.6 10.6 31-152 46-130  5B Preparation Me (ansas City  10.6 63-121  10B Preparation Me (ansas City  5.3	omple s  DF  othod: E  1  1  1  1  1  thod: E  thod: E	Prepared PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38 PA 5035A/5030B  10/13/21 13:59	10/14/21 11:07 10/14/21 11:07 10/14/21 11:07 10/14/21 11:07 10/14/21 11:07 10/13/21 23:30 10/13/21 23:30	CAS No. 646-31-1 92-94-4 460-00-4	Qua
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics  FPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260B MSV 5035A Low Level  Benzene Ethylbenzene	Results  Analytical Meth Pace Analytical ND ND 94 77 Analytical Meth Pace Analytical ND 94 Analytical Meth Pace Analytical ND 94 Analytical Meth Pace Analytical ND ND ND	units  un	Report Limit  5B Preparation Me Cansas City  10.6 10.6 31-152 46-130 5B Preparation Me Cansas City  10.6 63-121  0B Preparation Me Cansas City  5.3 5.3	omple s  DF  othod: E  1  1  1  1  thod: E  thod: E	Prepared PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38 PA 5035A/5030B  10/13/21 13:59 10/13/21 13:59	10/14/21 11:07 10/14/21 11:07 10/14/21 11:07 10/14/21 11:07 10/14/21 11:07 10/13/21 23:30 10/13/21 23:30 10/15/21 13:15 10/15/21 13:15	CAS No.  646-31-1 92-94-4  460-00-4  71-43-2 100-41-4	Qua
Parameters  B015B Diesel Range Organics  B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates D-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates B-Bromofluorobenzene (S)  B260B MSV 5035A Low Level  Benzene Ethylbenzene Foluene	Results  Analytical Methodology Pace Analytical ND ND 94 77 Analytical Methodology Pace Analytical ND 94 Analytical Methodology Pace Analytical ND ND ND ND ND ND ND	units  un	Report Limit  5B Preparation Me Cansas City  10.6 10.6 31-152 46-130  5B Preparation Me Cansas City  10.6 63-121  0B Preparation Me Cansas City  5.3 5.3 5.3	omple s  DF  othod: E  1  1  1  1  thod: E  thod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38 PA 5035A/5030B  10/13/21 13:59 10/13/21 13:59 10/13/21 13:59	10/14/21 11:07 10/14/21 11:07 10/14/21 11:07 10/14/21 11:07 10/14/21 11:07 10/13/21 23:30 10/13/21 23:30 10/15/21 13:15 10/15/21 13:15	CAS No.  646-31-1 92-94-4  71-43-2 100-41-4 108-88-3	Qua
Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 4-Bromofluorobenzene (S)	Results  Analytical Meth Pace Analytical ND ND 94 77 Analytical Meth Pace Analytical ND 94 Analytical Meth Pace Analytical ND 94 Analytical Meth Pace Analytical ND ND ND	units  un	Report Limit  5B Preparation Me Cansas City  10.6 10.6 31-152 46-130 5B Preparation Me Cansas City  10.6 63-121  0B Preparation Me Cansas City  5.3 5.3	omple s  DF  othod: E  1  1  1  1  thod: E  thod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38 PA 5035A/5030B  10/13/21 13:59 10/13/21 13:59 10/13/21 13:59	10/14/21 11:07 10/14/21 11:07 10/14/21 11:07 10/14/21 11:07 10/14/21 11:07 10/13/21 23:30 10/13/21 23:30 10/15/21 13:15 10/15/21 13:15	CAS No.  646-31-1 92-94-4  71-43-2 100-41-4 108-88-3	Qua

### **REPORT OF LABORATORY ANALYSIS**

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Project:

### **ANALYTICAL RESULTS**

VGEU 2801-02

Results reported on a "dry weight Parameters	" basis and are adj Results	usted for per Units	Report Limit	mpie s DF	Prepared	<b>ions.</b> Analyzed	CAS No.	Qua
			·		<del>-</del>			
260B MSV 5035A Low Level	Analytical Meth Pace Analytica		OB Preparation Me ansas City	thod: E	PA 5035A/5030B			
Surrogates								
-Bromofluorobenzene (S)	104	%	83-119	1		10/15/21 13:15		
,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	10/13/21 13:59	10/15/21 13:15	2199-69-1	
Percent Moisture	Analytical Meth Pace Analytica							
Percent Moisture	7.5	%	0.50	1		10/13/21 14:08		
0056 IC Anions	Analytical Meth Pace Analytica		6 Preparation Meth ansas City	nod: EP	A 9056			
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: 603	82055011	Collected: 10/11/2	1 00.22	Received: 10	/13/21 00·15 N	latrix: Solid	
Results reported on a "dry weight							iatrix. Soliu	
Parameters	Results	Units		_	-			_
		Ullis	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
015B Diesel Range Organics		nod: EPA 801	5B Preparation Me		•	Analyzed	CAS No.	Qua
	Analytical Meth	nod: EPA 801	5B Preparation Me		PA 3546	Analyzed 10/14/21 11:15	CAS No.	Qua
TPH-DRO (C10-C28) TPH-ORO (C28-C35)	Analytical Meth	nod: EPA 8018 Il Services - K	5B Preparation Me ansas City	thod: E	PA 3546		CAS No.	- Qua
PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates	Analytical Meth Pace Analytica ND 16.4	nod: EPA 801 I Services - K mg/kg mg/kg	5B Preparation Me ansas City 10.4 10.4	ethod: E	PA 3546 10/13/21 23:07 10/13/21 23:07	10/14/21 11:15 10/14/21 11:15		- Qua
PH-DRO (C10-C28) PH-ORO (C28-C35)  Surrogates -Tetracosane (S)	Analytical Meth Pace Analytica ND	nod: EPA 8019 Il Services - K mg/kg	5B Preparation Me ansas City 10.4	ethod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07	10/14/21 11:15	646-31-1	Qua
PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates I-Tetracosane (S) I-Terphenyl (S)	Analytical Meth Pace Analytica ND 16.4 113	nod: EPA 8018 Il Services - K mg/kg mg/kg % %	5B Preparation Me ansas City 10.4 10.4 31-152	ethod: E 1 1 1 1	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07	10/14/21 11:15 10/14/21 11:15 10/14/21 11:15	646-31-1	Qua
TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates 1-Tetracosane (S) 1-Terphenyl (S)	Analytical Meth Pace Analytica ND 16.4 113	mod: EPA 8018 Il Services - K mg/kg mg/kg % % mod: EPA 8018	5B Preparation Me ansas City 10.4 10.4 31-152 46-130 5B Preparation Me	ethod: E 1 1 1 1	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07	10/14/21 11:15 10/14/21 11:15 10/14/21 11:15	646-31-1	Qua
PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates I-Tetracosane (S) I-Terphenyl (S) Gasoline Range Organics PH-GRO	Analytical Meth Pace Analytica ND 16.4 113 81 Analytical Meth	mod: EPA 8018 Il Services - K mg/kg mg/kg % % mod: EPA 8018	5B Preparation Me ansas City 10.4 10.4 31-152 46-130 5B Preparation Me	ethod: E 1 1 1 1	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B	10/14/21 11:15 10/14/21 11:15 10/14/21 11:15	646-31-1	Qua
PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates -Tetracosane (S) -Terphenyl (S) Sasoline Range Organics PH-GRO Surrogates	Analytical Meth Pace Analytica ND 16.4 113 81 Analytical Meth Pace Analytica	nod: EPA 8019 Il Services - K mg/kg mg/kg % wnod: EPA 8019 Il Services - K	5B Preparation Me ansas City 10.4 10.4 31-152 46-130 5B Preparation Me ansas City	ethod: E  1 1 1 1 thod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38	10/14/21 11:15 10/14/21 11:15 10/14/21 11:15 10/14/21 11:15	646-31-1 92-94-4	Qua
FPH-DRO (C10-C28) FPH-ORO (C28-C35) Furrogates Fetracosane (S) Ferphenyl (S) Fasoline Range Organics FPH-GRO Furrogates FPH-GRO Furrogates F-Bromofluorobenzene (S)	Analytical Meth Pace Analytica ND 16.4 113 81 Analytical Meth Pace Analytical ND 95	mod: EPA 8018 I Services - K mg/kg mg/kg % nod: EPA 8018 I Services - K mg/kg %	5B Preparation Me ansas City  10.4 10.4 31-152 46-130 5B Preparation Me ansas City  11.0 63-121	ethod: E  1 1 1 1 thod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38 10/13/21 13:38	10/14/21 11:15 10/14/21 11:15 10/14/21 11:15 10/14/21 11:15 10/14/21 23:45	646-31-1 92-94-4	Qua
PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates I-Tetracosane (S) I-Terphenyl (S) Gasoline Range Organics PH-GRO Surrogates I-Bromofluorobenzene (S) I-Bromofluorobenzene (S) I-Bromofluorobenzene (S)	Analytical Meth Pace Analytica ND 16.4 113 81 Analytical Meth Pace Analytical ND 95 Analytical Meth	mod: EPA 8018 I Services - K mg/kg mg/kg % nod: EPA 8018 I Services - K mg/kg %	5B Preparation Me ansas City  10.4 10.4 31-152 46-130 5B Preparation Me ansas City  11.0 63-121	ethod: E  1 1 1 1 thod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38 PA 5035A/5030B  10/13/21 13:38 PA 5035A/5030B	10/14/21 11:15 10/14/21 11:15 10/14/21 11:15 10/14/21 11:15 10/13/21 23:45 10/13/21 23:45	646-31-1 92-94-4 460-00-4	Qua
PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates I-Tetracosane (S) I-Terphenyl (S) Gasoline Range Organics IPH-GRO Surrogates I-Bromofluorobenzene (S) I260B MSV 5035A Low Level Genzene	Analytical Mether Pace Analytical ND 16.4 113 81 Analytical Mether Pace Analytical ND 95 Analytical Mether Pace An	mod: EPA 8018 If Services - K mg/kg mg/kg % hod: EPA 8018 If Services - K mg/kg % hod: EPA 8266 If Services - K	5B Preparation Meansas City  10.4 10.4 31-152 46-130 5B Preparation Meansas City  11.0 63-121  DB Preparation Meansas City	ethod: E  1 1 1 1 thod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38 PA 5035A/5030B  10/13/21 13:38 PA 5035A/5030B	10/14/21 11:15 10/14/21 11:15 10/14/21 11:15 10/14/21 11:15 10/13/21 23:45 10/13/21 23:45	646-31-1 92-94-4 460-00-4	Qua
PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates -Tetracosane (S) -Terphenyl (S) Sasoline Range Organics PH-GRO Surrogates -Bromofluorobenzene (S) 260B MSV 5035A Low Level Senzene Ethylbenzene foluene	Analytical Mether Pace Analytical ND 16.4 113 81 Analytical Mether Pace Analytical ND 95 Analytical Mether Pace Analytical Mether Pace Analytical Mether Pace Analytical ND	mod: EPA 8018 Il Services - K mg/kg mg/kg % hod: EPA 8018 Il Services - K mg/kg % hod: EPA 8266 Il Services - K ug/kg	5B Preparation Meansas City  10.4 10.4 31-152 46-130 5B Preparation Meansas City  11.0 63-121  0B Preparation Meansas City  5.5	ethod: E  1 1 1 1 1 1 thod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38 PA 5035A/5030B  10/13/21 13:59 10/13/21 13:59 10/13/21 13:59 10/13/21 13:59	10/14/21 11:15 10/14/21 11:15 10/14/21 11:15 10/14/21 11:15 10/13/21 23:45 10/13/21 23:45 10/15/21 13:35 10/15/21 13:35 10/15/21 13:35	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	Qua
PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates In-Tetracosane (S) In-Terphenyl (S) Gasoline Range Organics IPH-GRO Surrogates II-Bromofluorobenzene (S) II-Bromofluorobenzene (S	Analytical Meth Pace Analytica  ND 16.4  113 81  Analytical Meth Pace Analytica  ND 95  Analytical Meth Pace Analytical Meth Pace Analytical Meth	mod: EPA 8018 If Services - K mg/kg mg/kg % mod: EPA 8018 If Services - K mg/kg % mod: EPA 8266 If Services - K ug/kg ug/kg	5B Preparation Meansas City  10.4 10.4 31-152 46-130 5B Preparation Meansas City  11.0 63-121  0B Preparation Meansas City  5.5 5.5	ethod: E  1 1 1 thod: E  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38 PA 5035A/5030B  10/13/21 13:59 10/13/21 13:59 10/13/21 13:59 10/13/21 13:59	10/14/21 11:15 10/14/21 11:15 10/14/21 11:15 10/14/21 11:15 10/13/21 23:45 10/13/21 23:45 10/15/21 13:35 10/15/21 13:35	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	Qua
PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates I-Tetracosane (S) I-Terphenyl (S) Sasoline Range Organics PH-GRO Surrogates I-Bromofluorobenzene (S)	Analytical Meth Pace Analytica  ND 16.4  113 81  Analytical Meth Pace Analytical ND 95  Analytical Meth Pace Analytical ND ND ND ND ND ND	mod: EPA 8018 I Services - K mg/kg mg/kg % nod: EPA 8018 I Services - K mg/kg % nod: EPA 8266 I Services - K ug/kg ug/kg ug/kg ug/kg	5B Preparation Me ansas City  10.4 10.4 31-152 46-130 5B Preparation Me ansas City  11.0 63-121  0B Preparation Me ansas City  5.5 5.5 16.4	thod: E  1 1 1 1 thod: E  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38 PA 5035A/5030B  10/13/21 13:59 10/13/21 13:59 10/13/21 13:59 10/13/21 13:59	10/14/21 11:15 10/14/21 11:15 10/14/21 11:15 10/14/21 11:15 10/13/21 23:45 10/13/21 23:45 10/15/21 13:35 10/15/21 13:35 10/15/21 13:35 10/15/21 13:35	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7	Qua
BO15B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 1-Bromofluorobenzene (S) Benzene Ethylbenzene Toluene Kylene (Total) Surrogates Toluene-d8 (S) 1-Bromofluorobenzene (S)	Analytical Meth Pace Analytica  ND 16.4  113 81  Analytical Meth Pace Analytica  ND 95  Analytical Meth Pace Analytical  ND ND ND ND	mod: EPA 8018 I Services - K mg/kg mg/kg % nod: EPA 8018 I Services - K mg/kg % nod: EPA 8260 I Services - K ug/kg ug/kg ug/kg	5B Preparation Me ansas City  10.4 10.4 31-152 46-130 5B Preparation Me ansas City  11.0 63-121  0B Preparation Me ansas City  5.5 5.5	ethod: E  1 1 1 1 1 1 thod: E	PA 3546  10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 10/13/21 23:07 PA 5035A/5030B  10/13/21 13:38 PA 5035A/5030B  10/13/21 13:59 10/13/21 13:59 10/13/21 13:59 10/13/21 13:59 10/13/21 13:59 10/13/21 13:59	10/14/21 11:15 10/14/21 11:15 10/14/21 11:15 10/14/21 11:15 10/13/21 23:45 10/13/21 23:45 10/15/21 13:35 10/15/21 13:35 10/15/21 13:35	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7 2037-26-5	Qua

### **REPORT OF LABORATORY ANALYSIS**

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VGEU 2801-02

60382955

Project:

Benzene

Toluene

Ethylbenzene

Xylene (Total)

Toluene-d8 (S)

**Percent Moisture** 

Percent Moisture

4-Bromofluorobenzene (S)

1,2-Dichlorobenzene-d4 (S)

Date: 10/15/2021 04:09 PM

Surrogates

Pace Project No.:

#### **ANALYTICAL RESULTS**

Collected: 10/11/21 09:22 Sample: WSW-1 (1') Lab ID: 60382955011 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 Prepared Analyzed CAS No. Qual Analytical Method: ASTM D2974 **Percent Moisture** 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 193 105 10 10/13/21 14:58 10/14/21 11:55 16887-00-6 mg/kg 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 Analytical Method: EPA 8015B Preparation Method: EPA 3546 8015B Diesel Range Organics Pace Analytical Services - Kansas City TPH-DRO (C10-C28) ND 10/13/21 23:07 10/14/21 11:24 mg/kg 10.3 1 TPH-ORO (C28-C35) 10/13/21 23:07 10/14/21 11:24 16.2 mg/kg 10.3 1 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 10/13/21 13:38 10/14/21 00:32 Surrogates 4-Bromofluorobenzene (S) 97 63-121 10/13/21 13:38 10/14/21 00:32 460-00-4 Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B 8260B MSV 5035A Low Level

# 9056 IC Anions Analytical Method: EPA 9056 Preparation Method: EPA 9056

7.6

ND

ND

ND

ND

109

107

97

Pace Analytical Services - Kansas City

Pace Analytical Services - Kansas City

Pace Analytical Services - Kansas City

ug/kg

ug/kg

ug/kg

ug/kg

%

%

%

Analytical Method: ASTM D2974

Chloride 200 mg/kg 110 10 10/13/21 14:58 10/14/21 12:07 16887-00-6

#### REPORT OF LABORATORY ANALYSIS

5.7

5.7

5.7

17.0

80-120

83-119

80-120

0.50

1

1

1

1

1

10/13/21 13:59 10/15/21 13:56 71-43-2

10/13/21 13:59 10/15/21 13:56 100-41-4

10/13/21 13:59 10/15/21 13:56 108-88-3

10/13/21 13:59 10/15/21 13:56 1330-20-7

10/13/21 13:59 10/15/21 13:56 2037-26-5

10/13/21 13:59 10/15/21 13:56 460-00-4

10/13/21 13:59 10/15/21 13:56 2199-69-1

10/13/21 14:08



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

Sample: NSW-6 (6')	Lab ID: 603	82955013	Collected: 10/11/2	1 09:3	5 Received: 10	/13/21 09:15 N	latrix: Solid	
Results reported on a "dry weight	" basis and are ad	justed for pe	ercent moisture, sa	mple s	size and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
015B Diesel Range Organics	Analytical Met	hod: EPA 80°	15B Preparation Me	ethod: E	EPA 3546			
	Pace Analytica	al Services - I	Kansas City					
PH-DRO (C10-C28)	ND	mg/kg	15.2	1	10/14/21 08:16	10/14/21 12:45		
PH-ORO (C28-C35) Surrogates	17.1	mg/kg	15.2	1		10/14/21 12:45		
-Tetracosane (S)	79	%	31-152	1	10/14/21 08:16	10/14/21 12:45	646-31-1	
-Terphenyl (S)	70	%	46-130	1	10/14/21 08:16	10/14/21 12:45	92-94-4	
Sasoline Range Organics	Analytical Met Pace Analytica		15B Preparation Me Kansas City	ethod: E	EPA 5035A/5030B			
ГРН-GRO <b>Surrogates</b>	ND	mg/kg	11.4	1	10/13/21 13:38	10/14/21 00:48		
4-Bromofluorobenzene (S)	94	%	63-121	1	10/13/21 13:38	10/14/21 00:48	460-00-4	
3260B MSV 5035A Low Level	Analytical Met Pace Analytica		60B Preparation Me Kansas City	ethod: E	EPA 5035A/5030B			
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	
oluene	ND	ug/kg	5.7	1	10/13/21 13:59	10/15/21 14:16	108-88-3	
(ylene (Total) <b>Surrogates</b>	ND	ug/kg	17.1	1	10/13/21 13:59	10/15/21 14:16	1330-20-7	
Toluene-d8 (S)	105	%	80-120	1		10/15/21 14:16		
I-Bromofluorobenzene (S)	105	%	83-119	1		10/15/21 14:16		
,2-Dichlorobenzene-d4 (S)	97	%	80-120	1	10/13/21 13:59	10/15/21 14:16	2199-69-1	
Percent Moisture	Analytical Met	hod: ASTM D	02974					
	Pace Analytica	al Services - I	Kansas City					
Percent Moisture	7.0	%	0.50	1		10/13/21 14:08		
056 IC Anions	Analytical Met	hod: EPA 90	56 Preparation Met	nod: EF	PA 9056			
	Pace Analytica							
Chloride	517	mg/kg	105	10	10/13/21 14:58	10/14/21 12:19	16887-00-6	
Sample: SSW-27	Lab ID. 602	1920EE04.4	Callagtade 40/44/5	11 00:41	E Daniundi 10	V/12/21 00:15 N	Actrica Colid	
Results reported on a "dry weight	Lab ID: 603 " basis and are ad		Collected: 10/11/2 ercent moisture, sa				latrix: Solid	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
015B Diesel Range Organics	Analytical Met Pace Analytica		15B Preparation Me Kansas City	ethod: E	EPA 3546			
PH-DRO (C10-C28)	10.5	mg/kg	10.4	1	10/13/21 23:07	10/14/21 11:32		
PH-ORO (C28-C35)	16.1	mg/kg	10.4	1		10/14/21 11:32		
Surrogates		5 0						
n-Tetracosane (S)	97	%	31-152	1		10/14/21 11:32		
o-Terphenyl (S)	81	%	46-130	1	10/13/21 23:07	40/44/04 44 00	00 04 4	

### **REPORT OF LABORATORY ANALYSIS**

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

Sample: SSW-27	Lab ID: 603	82955014	Collected: 10/11/2	1 09:45	Received: 10	)/13/21 09:15 <b>I</b>	Matrix: Solid	
Results reported on a "dry weight"	' basis and are ad	iusted for p	ercent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
Gasoline Range Organics	Analytical Met	hod: EPA 80	015B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica	al Services -	Kansas City					
TPH-GRO <b>Surrogates</b>	ND	mg/kg	11.3	1	10/13/21 13:38	10/14/21 01:03	3	
4-Bromofluorobenzene (S)	95	%	63-121	1	10/13/21 13:38	10/14/21 01:03	3 460-00-4	
3260B MSV 5035A Low Level	Analytical Metl	nod: EPA 82	260B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica	al 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	
Kylene (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	
I-Bromofluorobenzene (S)	103	%	83-119	1	10/13/21 13:59	10/15/21 14:36	460-00-4	
,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	10/13/21 13:59	10/15/21 14:36	2199-69-1	
Percent Moisture	Analytical Metl	hod: ASTM I	D2974					
	Pace Analytica	l Services -	Kansas City					
Percent Moisture	6.5	%	0.50	1		10/13/21 14:08	3	
9056 IC Anions	Analytical Met	hod: EPA 90	56 Preparation Meth	nod: EP	A 9056			
	Pace Analytica	al Services -	Kansas City					
Chloride	325	mg/kg	105	10	10/13/21 14:58	10/14/21 12:30	16887-00-6	

### **REPORT OF LABORATORY ANALYSIS**

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

METHOD BLANK: 3000222

QC Batch: 749222 Analysis Method:

QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics

Laboratory: Pace Analytical Services - Kansas City

EPA 8015B

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

Associated Lab Samples: 60382955001, 60382955002, 60382955003, 60382955004, 60382955005, 60382955006, 60382955007,

60382955008, 60382955009, 60382955010, 60382955011, 60382955012, 60382955013, 60382955014, 6038295014, 603820014, 6038200014, 603820014, 603820014, 603820014, 603820014, 603820014, 60

Matrix: Solid

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

LABORATORY CONTROL SAMPLE: 3000223

Spike LCS LCS

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3000224 3000225

MS MSD 60382955011 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD 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

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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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

		Blank	Reporting		
Parameter	Units	Result	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					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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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#### **REPORT OF LABORATORY ANALYSIS**

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

LABORATORY CONTROL SAMPLE	: 3000984					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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 SP	IKE DUPI	LICATE: 3000	216 MS	MSD	3000217							
		60382943001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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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### **REPORT OF LABORATORY ANALYSIS**





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

		Blank	Reporting		
Parameter	Units	Result	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

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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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#### **REPORT OF LABORATORY ANALYSIS**

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#### **QUALITY CONTROL DATA**

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

LABORATORY CONTROL SAMPLE.

QC Batch: 749215 QC Batch Method: EPA 3546

Analysis Method: EPA 8015B
Analysis Description: EPA 8015B

Laboratory: Pace Analytical Services - Kansas City

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

METHOD BLANK: 3000175 Matrix: Solid

3000176

Associated Lab Samples: 60382955001, 60382955002, 60382955003, 60382955004, 60382955005, 60382955006, 60382955007,

60382955008, 60382955009, 60382955010, 60382955011, 60382955012, 60382955014

		Blank	Reporting		
Parameter	Units	Result	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	

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 S	PIKE DUPLIC	CATE: 3000	177		3000178							
			MS	MSD								
	6	0382955001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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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#### **REPORT OF LABORATORY ANALYSIS**

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Project:

VGEU 2801-02

Pace Project No.:

60382955

QC Batch:

QC Batch Method:

749344 EPA 3546 Analysis Method:

EPA 8015B

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:

Parameter

TPH-DRO (C10-C28)

n-Tetracosane (S)

p-Terphenyl (S)

3000723

Units

mg/kg

%

%

LCS Spike LCS % Rec Conc. Result % Rec Limits Qualifiers 82.3 68.5 83 74-124 99 31-152

91

46-130

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

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			

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#### **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,

Blank Reporting

ParameterUnitsResultLimitAnalyzedQualifiersPercent Moisture%ND0.5010/13/21 14:09

SAMPLE DUPLICATE: 3000295

ParameterUnits60382836001 ResultDup ResultMax RPDMax RPDPercent Moisture%7.27.2120

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**



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,

Blank Reporting

ParameterUnitsResultLimitAnalyzedQualifiersChloridemg/kgND10010/14/21 08:13

LABORATORY CONTROL SAMPLE: 3000380

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3000381 3000382

MS MSD

60382952001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual

Chloride mg/kg 159 500 500 596 597 87 88 80-120 0 15

SAMPLE DUPLICATE: 3000383

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



### **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	Analytica Batch
60382955001	FS-1	EPA 3546	749215	EPA 8015B	749374
60382955002	FS-2	EPA 3546	749215	EPA 8015B	749374
0382955003	FS-3	EPA 3546	749215	EPA 8015B	749374
0382955004	FS-4	EPA 3546	749215	EPA 8015B	749374
0382955005	FS-5	EPA 3546	749215	EPA 8015B	749374
0382955006	FS-6	EPA 3546	749215	EPA 8015B	749374
0382955007	FS-7	EPA 3546	749215	EPA 8015B	749374
0382955008	FS-9	EPA 3546	749215	EPA 8015B	749374
0382955009	FS-10	EPA 3546	749215	EPA 8015B	749374
0382955010	FS-11	EPA 3546	749215	EPA 8015B	749374
0382955011	WSW-1 (1')	EPA 3546	749215	EPA 8015B	749374
0382955012	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
0382955001	FS-1	EPA 5035A/5030B	749222	EPA 8015B	749259
0382955002	FS-2	EPA 5035A/5030B	749222	EPA 8015B	749259
0382955003	FS-3	EPA 5035A/5030B	749222	EPA 8015B	749259
0382955004	FS-4	EPA 5035A/5030B	749222	EPA 8015B	749259
0382955005	FS-5	EPA 5035A/5030B	749222	EPA 8015B	749259
0382955006	FS-6	EPA 5035A/5030B	749222	EPA 8015B	749259
0382955007	FS-7	EPA 5035A/5030B	749222	EPA 8015B	749259
0382955008	FS-9	EPA 5035A/5030B	749222	EPA 8015B	749259
0382955009	FS-10	EPA 5035A/5030B	749222	EPA 8015B	749259
0382955010	FS-11	EPA 5035A/5030B	749222	EPA 8015B	749259
0382955011	WSW-1 (1')	EPA 5035A/5030B	749222	EPA 8015B	749259
0382955012	NSW-5 (6')	EPA 5035A/5030B	749222	EPA 8015B	749259
0382955013	NSW-6 (6')	EPA 5035A/5030B	749222	EPA 8015B	749259
0382955014	SSW-27	EPA 5035A/5030B	749222	EPA 8015B	749259
0382955001	FS-1	EPA 5035A/5030B	749219	EPA 8260B	749392
0382955002	FS-2	EPA 5035A/5030B	749219	EPA 8260B	749392
0382955003	FS-3	EPA 5035A/5030B	749219	EPA 8260B	749392
0382955004	FS-4	EPA 5035A/5030B	749219	EPA 8260B	749392
0382955005	FS-5	EPA 5035A/5030B	749219	EPA 8260B	749392
0382955006	FS-6	EPA 5035A/5030B	749219	EPA 8260B	749392
0382955007	FS-7	EPA 5035A/5030B	749219	EPA 8260B	749392
0382955008	FS-9	EPA 5035A/5030B	749219	EPA 8260B	749392
0382955009	FS-10	EPA 5035A/5030B	749219	EPA 8260B	749392
0382955010	FS-11	EPA 5035A/5030B	749221	EPA 8260B	749253
0382955011	WSW-1 (1')	EPA 5035A/5030B	749221	EPA 8260B	749253
0382955012	NSW-5 (6')	EPA 5035A/5030B	749221	EPA 8260B	749253
0382955013	NSW-6 (6')	EPA 5035A/5030B	749221	EPA 8260B	749253
0382955014	SSW-27	EPA 5035A/5030B	749221	EPA 8260B	749253
0382955001	FS-1	ASTM D2974	749230		
60382955002	FS-2	ASTM D2974	749230		
0382955003	FS-3	ASTM D2974	749230		
60382955004	FS-4	ASTM D2974	749230		

### **REPORT OF LABORATORY ANALYSIS**



### **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	Analytica 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

### **REPORT OF LABORATORY ANALYSIS**

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## Sample Condition Upon Receipt



Client Name: Tetra Tech		
	EX 🗆 ECI 🗆	Pace □ Xroads □ Client □ Other □
	e Shipping Label Use	
Custody Seal on Cooler/Box Present: Yes ✓ No □	Seals intact: Yes	
Packing Material: Bubble Wrap  Bubble Bags	,	None ☐ Other ☐
C	Ice: No Blue No	
A -	or _6.3correc	Date and initials of some
Temperature should be above freezing to 6°C		examining contents:
	1	10/10/21
Chain of Custody present:	Yes No N/A	
Chain of Custody relinquished:	Yes No N/A	
Samples arrived within holding time:	Yes No N/A	
Short Hold Time analyses (<72hr):	☐Yes No ☐N/A	
Rush Turn Around Time requested:	✓Yes □No □N/A	244
Sufficient volume:	✓Yes □No □N/A	
Correct containers used:	∆Yes □No □N/A	
Pace containers used:	Yes □No □N/A	
Containers intact:	☑Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	□Yes □No ∕ON/A	
Filtered volume received for dissolved tests?	□Yes □No □N/A	
Sample labels match COC: Date / time / ID / analyses	Yes No N/A	
Samples contain multiple phases? Matrix: 5 L	□Yes □No □N/A	
Containers requiring pH preservation in compliance?	□Yes □No ☑N/A	List sample IDs, volumes, lot #'s of preservative and the
(HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA Micro O&G KS TPH OK-DRO) LOT#		date/time added.
(Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO)  LOT#  Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	□Yes □No	
Potassium iodide test strip turns blue/purple? (Preserve)	□Yes □No	
Trip Blank present:	□Yes □No ☑N/A	
Headspace in VOA vials ( >6mm):	□Yes □No □N/A	
Samples from USDA Regulated Area: State: V M	□Yes DNo □N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	□Yes □No ☑N/A	
Client Notification/ Resolution: Copy COC to		Field Data Required? Y / N
Person Contacted: Date/Tir	me:	<u> </u>
Comments/ Resolution:		
Project Manager Review:	Date	a a
	2011	

Regained by OCD: 4/6/2022 3:06:55 PM Page 126 of 596 **A2108 H9T** ₽ X RUSH: Same Day (24 hr. 38 hr. 72 hr. Circle or Specify Method No.) Anion/Cation Balance Page: 1 genetal Water Chemistry (see attached list) Special Report Limits or TRRP Report TDS Sulfate × × × × × × × × Chloride 300.0 Rush Charges Authorized (Asbestos) MJ MAON CB.2 8085 / 608 SC/MS Semi. Vol. 8270C/625 Standard 3C/W2 AOI: 8560B / 624 (Circle) HAND DELIVERED FEDEX RCI ANALYSIS REQUEST CLP Semi Volatiles **TCLP Volatiles** CLP Metals Ag As Ba Cd Cr Pb Se Hg Sample Temperature Total Metals Ag As Ba Cd Cr Pb Se Hg LAB USE ONLY PAH 8270C ТРН 8015М ( GRO - DRO - ОRO - МАГО) × × × × × × × × × PH TX1005 (Ext to C35) × × × × BTEX 8260B **BTEX 80218** × × × × × z z z z FILTERED (Y/N) z z Z z <u>a</u> Fax (432) 682-901 West Wall Street, Suite 100 Midland, Texas 79701 5 Email: christian.llull@tetratech.com # CONTAINERS PRESERVATIVE Time: METHOD NONE Phone: (512) 338-1667 × × × × × × × × CE 5110/ (432) 682-4559 John Thurston Date: CONH Date: 212C-MD-02099 TOF Christian Llull MATRIX TIOS × × × × × × × × × **A**BTAN 11:05 11:10 11:15 TIME 11:00 11:20 11:25 11:30 ORIGINAL COPY 9:15 9:00 9:07 Sampler Signature: SAMPLING Site Manager: Contact Info: Received by: Received by: Received by: /EAR: 2021 10/7/2021 10/11/2021 10/7/2021 10/7/2021 10/11/2021 10/11/2021 10/7/2021 10/7/2021 10/7/2021 10/7/2021 Project #: DATE Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701 0900 Tetra Tech, Inc. Time: Time: Analysis Request of Chain of Custody Record SAMPLE IDENTIFICATION 12/21/01 Date: FS-10 -ea County, New Mexico FS-11 FS-2 FS-3 FS4 FS-5 FS-6 FS-9 FS-7 FS-1 Conoco Phillips VGEU 2801-02 Pace Analytical COPTETRA Acctnum eceiving Laboratory: roject Location: telinquished by: roject Name: county, state) Jient Name: LAB USE Comments: TYP# ONLY ivoice to:

Recaived by OCD: 4/6/2022 3:06:55 PM Page 127 of 596 RPH 8015R ð X RUSH: Same Day (24 hr. 38 hr. 72 hr. Circle or Specify Method No.) 60382955 Anion/Cation Balance 7 Seneral Water Chemistry (see attached list) Special Report Limits or TRRP Report Page: Sulfate × × × Chloride 300.0 × Rush Charges Authorized (Asbestos) MAON CB,8 8085 \ 608 (Circle) HAND DELIVERED (FEDEX) UPS 3C/WS Semi. Vol. 8270C/625 Standard GC/W2 AOF 8560B / 624 **ANALYSIS REQUEST** ICLP Semi Volatiles CLP Metals Ag As Ba Cd Cr Pb Se Hg Sample Temperature olal Metals Ag As Ba Cd Cr Pb Se Hg LAB USE ONLY **SAH 8270C** TPH 8015M ( GRO - DRO - ORO - MRO) × × × × TPH TX1005 (Ext to C35) BTEX 8260B × × × BTEX 8021B z z z z FILTERED (Y/N) <u>le</u> Fax (432) 682-901 West Wall Street, Suite 100 Midland, Texas 79701 Email: christian.llull@tetratech.com # CONTAINERS 0.0 PRESERVATIVE Time: NONE METHOD Phone: (512) 338-1667 × ICE × × × (432) 682-4559 Date: John Thurston 212C-MD-02099 HCF Christian Llull MATRIX TIOS × × × × **NATER** TIME ORIGINAL COPY 9:22 9:35 9:45 9:27 Sampler Signature: SAMPLING Site Manager: Contact Info: Received by: Received by: Received by: 10/11/2021 10/11/2021 10/11/2021 **/EAR: 2021** 10/11/2021 Project #: DATE Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701 2900 Tetra Tech, Inc. Time: Time: Tetra Tech, SAMPLE IDENTIFICATION 12/21/01 Date: WSW-1 (1") NSW-5 (6') NSW-6 (6') SSW-27 Lea County, New Mexico Conoco Phillips /GEU 2801-02 Pace Analytical COPTETRA Acctnum eceiving Laboratory: roject Location: Religiuished by: 91 c. 31 inquished by: elinquished by: roject Name: ounty, state) lient Name: LAB USE Comments: LAB# voice to: ONLY





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

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

This Wood

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Enclosures







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**



### **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**



### **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
0383397002	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
0383397003	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
0383397004	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
0383397005	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
0383397006	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
0383397007	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
0383397008	SSW-23	EPA 8015B	AHS	4	PASI-K
			BB1		PASI-K

### **REPORT OF LABORATORY ANALYSIS**



### **SAMPLE ANALYTE COUNT**

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

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
0383397009	SSW-24	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
0383397010	SSW-25	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
0383397011	SSW-26	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
0383397012	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
0383397013	SSW-25 (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
0383397014	SSW-26 (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
0383397015	NSW-9 (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

### **REPORT OF LABORATORY ANALYSIS**



### **SAMPLE ANALYTE COUNT**

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

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9056	ALH	1	PASI-K
60383397016	SSW-20 (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
60383397017	SSW-21 (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
60383397018	SSW-22 (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
60383397019	FS-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
60383397020	FS-12	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
60383397021	FS-13	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

### **REPORT OF LABORATORY ANALYSIS**



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

Sample: NSW-8	Lab ID: 603	83397001	Collected: 10/13/2	21 11:00	Received: 10	)/16/21 09:15 N	/latrix: Solid	
Results reported on a "dry weight	" basis and are ad	iusted for pe	rcent moisture, sa	ample s	size and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
015B Diesel Range Organics	Analytical Met	hod: EPA 801	5B Preparation Me	ethod: E	EPA 3546			
	Pace Analytica	al Services - K	ansas City					
FPH-DRO (C10-C28)	ND	mg/kg	59.6	1	10/18/21 11:04	10/18/21 16:03		
PH-ORO (C28-C35)	ND	mg/kg	59.6	1		10/18/21 16:03		
r-Tetracosane (S)	59	%	31-152	1	10/18/21 11:04	10/18/21 16:03	646-31-1	
-Terphenyl (S)	81	%	46-130	1	10/18/21 11:04	10/18/21 16:03	92-94-4	
Gasoline Range Organics	Analytical Met		5B Preparation Me ansas City	ethod: E	EPA 5035A/5030B			
ГРН-GRO <b>Surrogates</b>	ND	mg/kg	11.1	1	10/18/21 09:58	10/18/21 15:59		
I-Bromofluorobenzene (S)	97	%	63-121	1	10/18/21 09:58	10/18/21 15:59	460-00-4	
3260B MSV 5035A Low Level	Analytical Met		0B Preparation Me ansas City	ethod: E	EPA 5035A/5030B			
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 11:53	_	
oluene	8.8	ug/kg	5.5	1	10/18/21 10:58	10/18/21 11:53	108-88-3	
(ylene (Total) <b>Gurrogates</b>	27.9	ug/kg	16.6	1	10/18/21 10:58	10/18/21 11:53	1330-20-7	
Toluene-d8 (S)	103	%	80-120	1		10/18/21 11:53		
-Bromofluorobenzene (S)	105	%	83-119	1		10/18/21 11:53		
,2-Dichlorobenzene-d4 (S)	97	%	80-120	1	10/18/21 10:58	10/18/21 11:53	2199-69-1	
Percent Moisture	Analytical Met							
	Pace Analytica	al Services - K	ansas City					
Percent Moisture	7.5	%	0.50	1		10/18/21 10:57		
056 IC Anions	Analytical Met	hod: EPA 905	6 Preparation Met	hod: EF	PA 9056			
	Pace Analytica	al Services - K	ansas 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: 603	83397002	Collected: 10/13/2	21 11:0	5 Received: 10	)/16/21 09:15 N	Matrix: Solid	
Results reported on a "dry weight	" basis and are ad	iusted for pe	rcent moisture, sa	ample s	size and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8015B Diesel Range Organics	Analytical Met		5B Preparation Me ansas City	ethod: E	EPA 3546			
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 16:28		
Surrogates		5 5			-			
n-Tetracosane (S)	57	%	31-152	1	10/18/21 11:04	10/18/21 16:28	646-31-1	
o-Terphenyl (S)	75	%	46-130	1	10/18/21 11:04			

### **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.



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

Describe assessment and the second	Lab ID: 603	83397002	Collected: 10/13/2	1 11:0	5 Received: 10	/16/21 09:15 N	latrix: Solid	
Results reported on a "dry weight"	basis and are adj	usted for pe	rcent moisture, sa	mple s	size and any dilut	ions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
Gasoline Range Organics	Analytical Meth		5B Preparation Me Kansas City	thod: E	EPA 5035A/5030B			
TPH-GRO Surrogates	ND	mg/kg	10.4	1	10/18/21 09:58	10/18/21 16:15		
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 Meth Pace Analytica		0B Preparation Me Kansas City	thod: E	PA 5035A/5030B			
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) <b>Surrogates</b>	ND	ug/kg	15.6	1	10/18/21 10:58	10/18/21 12:13	1330-20-7	
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 Meth Pace Analytica							
Percent Moisture	4.5	%	0.50	1		10/18/21 10:57		
9056 IC Anions	Analytical Meth	nod: EPA 905	6 Preparation Meth	od: EF	PA 9056			
ooo io minono	Pace Analytica	l Services - k	Cansas City					
Chloride	Pace Analytica <b>927</b>	l Services - k mg/kg	Cansas City	10	10/18/21 11:35	10/18/21 19:39	16887-00-6	
Chloride  Sample: NSW-10  Results reported on a "dry weight"  Parameters	927  Lab ID: 603i basis and are adj  Results	mg/kg 83397003 usted for pe Units	Collected: 10/13/2 rcent moisture, sa Report Limit	1 11:10 <b>mple s</b> DF	D Received: 10 size and any dilut Prepared	/16/21 09:15 M	16887-00-6 Matrix: Solid CAS No.	Qua
Chloride Sample: NSW-10 Results reported on a "dry weight"	927  Lab ID: 603i basis and are adj  Results	mg/kg 83397003 usted for pe Units nod: EPA 801	Collected: 10/13/2 rcent moisture, sa Report Limit 5B Preparation Me	1 11:10 <b>mple s</b> DF	D Received: 10 size and any dilut Prepared	/16/21 09:15 N	fatrix: Solid	Qua
Chloride  Sample: NSW-10  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics	927  Lab ID: 603  basis and are adj  Results  Analytical Meth	mg/kg 83397003 usted for pe Units nod: EPA 801	Collected: 10/13/2 rcent moisture, sa Report Limit 5B Preparation Me	1 11:10 <b>mple s</b> DF	D Received: 10  Size and any dilute  Prepared  EPA 3546	/16/21 09:15 N	fatrix: Solid	Qua
Chloride  Sample: NSW-10  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)	927  Lab ID: 603a basis and are adj Results  Analytical Meth Pace Analytica	mg/kg 83397003 usted for pe Units nod: EPA 801 I Services - k	Collected: 10/13/2 rcent moisture, sa Report Limit 5B Preparation Me Kansas City	1 11:10 <b>mple s</b> DF thod: E	D Received: 10  Size and any dilute  Prepared  EPA 3546  10/18/21 11:04	/16/21 09:15 M i <b>ions.</b> Analyzed	fatrix: Solid	Qua
Chloride  Sample: NSW-10  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)  Surrogates	927  Lab ID: 603i basis and are adj Results  Analytical Meth Pace Analytica  10.5	mg/kg 83397003 usted for pe Units nod: EPA 801 I Services - k mg/kg	Collected: 10/13/2 rcent moisture, sa Report Limit 5B Preparation Me Kansas City 10.1	1 11:10 mple s DF thod: E	Prepared  10/18/21 11:04 10/18/21 11:04	/16/21 09:15 M ions. Analyzed 10/18/21 16:36	flatrix: Solid  CAS No.	Qua
Chloride  Sample: NSW-10  Results reported on a "dry weight" Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35)  Surrogates n-Tetracosane (S)	Pace Analytical Methodology  Analytical Methodology  Pace Analytical  10.5  16.2	mg/kg 83397003 usted for pe Units nod: EPA 801 I Services - k mg/kg mg/kg	Collected: 10/13/2 rcent moisture, sa Report Limit 5B Preparation Me (ansas City 10.1 10.1	1 11:10 mple s DF thod: E	Prepared  10/18/21 11:04 10/18/21 11:04	/16/21 09:15 M ions.  Analyzed  10/18/21 16:36 10/18/21 16:36	Tatrix: Solid  CAS No.  646-31-1	Qua
Chloride  Sample: NSW-10  Results reported on a "dry weight"  Parameters	Pace Analytical Methodology 10.5 16.2 59 77	mg/kg  83397003  usted for pe Units  nod: EPA 801 I Services - k mg/kg mg/kg % % nod: EPA 801	Collected: 10/13/2 rcent moisture, sa Report Limit  5B Preparation Me (ansas City  10.1 10.1 31-152 46-130  5B Preparation Me	1 11:10 mple s DF thod: E	Prepared  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	/16/21 09:15 M ions. Analyzed  10/18/21 16:36 10/18/21 16:36	Tatrix: Solid  CAS No.  646-31-1	Qua
Chloride  Sample: NSW-10  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35)  Surrogates n-Tetracosane (S) p-Terphenyl (S)	Pace Analytical Methodology  Analytical Methodology  Analytical Methodology  10.5  16.2  59  77  Analytical Methodology	mg/kg  83397003  usted for pe Units  nod: EPA 801 I Services - k mg/kg mg/kg % % nod: EPA 801	Collected: 10/13/2 rcent moisture, sa Report Limit  5B Preparation Me (ansas City  10.1 10.1 31-152 46-130  5B Preparation Me	1 11:10 mple s DF thod: E	PRECEIVED: 10 Size and any dilute Prepared  EPA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	/16/21 09:15 M ions. Analyzed  10/18/21 16:36 10/18/21 16:36	Tatrix: Solid  CAS No.  646-31-1	Qua

### **REPORT OF LABORATORY ANALYSIS**

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

Sample: NSW-10	Lab ID: 603	83397003	Collected: 10/13/2	11:10	Received: 10	/16/21 09:15 N	latrix: Solid	
Results reported on a "dry weight"	" basis and are adj	usted for per	rcent moisture, sa	mple s	ize and any dilu	ions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260B MSV 5035A Low Level	Analytical Meth	nod: EPA 8260	OB Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica							
Benzene	ND	ug/kg	5.2	1	10/18/21 10:58	10/18/21 12:33	71_//3_2	
Ethylbenzene	ND ND	ug/kg ug/kg	5.2	1		10/18/21 12:33		
Toluene	ND ND	ug/kg ug/kg	5.2	1		10/18/21 12:33		
Xylene (Total)	ND ND	ug/kg ug/kg	15.5	1		10/18/21 12:33		
Surrogates	ND	ug/kg	10.0	'	10/10/21 10.30	10/10/21 12.33	1330-20-7	
Foluene-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 12:33		
,2-Dichlorobenzene-d4 (S)	98	%	80-120	1		10/18/21 12:33		
Percent Moisture	Analytical Meth	nod: ASTM D2	2974					
Crock Moistare	Pace Analytica							
Percent Moisture	6.2	%	0.50	1		10/18/21 10:57		
9056 IC Anions	Analytical Moth	od: EDA 0056	6 Preparation Meth	od: EB	M 0056			
9056 IC Anions	Pace Analytica			iou. Er	A 9000			
	Pace Analytica	i Services - K	arisas City					
Chloride	185	mg/kg	103	10	10/18/21 11:35	10/18/21 20:06	16887-00-6	
•	Lab ID: 603 " basis and are adj		Collected: 10/13/2	mple s		ions.	latrix: Solid	
Sample: NSW-11 Results reported on a "dry weight" Parameters							latrix: Solid	Qua
Results reported on a "dry weight" Parameters	Results	Units	Report Limit	mple s	Prepared	ions.		Qua
Results reported on a "dry weight"	Results Analytical Meth	Units One EPA 8015	Report Limit  Report Limit  Preparation Me	mple s	Prepared	ions.		Qua
Results reported on a "dry weight" Parameters	Results	Units One EPA 8015	Report Limit  Report Limit  Preparation Me	mple s	Prepared	ions.		Qua
Results reported on a "dry weight" Parameters	Results Analytical Meth	Units One EPA 8015	Report Limit  Report Limit  Preparation Me	mple s	Prepared PA 3546	ions.		Qua
Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28)	Results  Analytical Methors  Pace Analytica	Units  Hod: EPA 8018  I Services - K	Report Limit  5B Preparation Meansas City	DF thod: E	Prepared PA 3546 10/18/21 11:04	Analyzed		Qua
Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35)	Results  Analytical Methors Pace Analytica	Units  Od: EPA 8015  I Services - K  mg/kg  mg/kg	Report Limit  5B Preparation Metansas City  10.0 10.0	DF othod: E	Prepared PA 3546 10/18/21 11:04	Analyzed 10/18/21 16:44		Qua
Parameters  Bo15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35)  Surrogates	Results  Analytical Methors Pace Analytica	Units  Od: EPA 8015 I Services - K  mg/kg	Report Limit  5B Preparation Metansas City  10.0	DF sthod: E	Prepared PA 3546 10/18/21 11:04 10/18/21 11:04	Analyzed 10/18/21 16:44	CAS No.	Qua
Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S)	Results  Analytical Meth Pace Analytica  ND  13.0	Units  Od: EPA 8015  I Services - K  mg/kg  mg/kg	Report Limit  5B Preparation Metansas City  10.0 10.0	DF othod: E	Prepared  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	Analyzed  10/18/21 16:44 10/18/21 16:44	CAS No. 646-31-1	Qua
Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Results  Analytical Meth Pace Analytica  ND 13.0  56 73	Units  Od: EPA 8015  I Services - Komg/kg mg/kg % %	Report Limit  5B Preparation Meansas City  10.0 10.0 31-152 46-130	omple so DF othod: E	Prepared  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	Analyzed  10/18/21 16:44 10/18/21 16:44 10/18/21 16:44	CAS No. 646-31-1	Qua
Results reported on a "dry weight" Parameters  B015B Diesel Range Organics	Results  Analytical Meth Pace Analytica  ND 13.0  56 73  Analytical Meth	Units  nod: EPA 8018 I Services - K mg/kg mg/kg % % nod: EPA 8018	Report Limit  5B Preparation Meansas City  10.0 10.0 31-152 46-130  5B Preparation Me	omple so DF othod: E	Prepared  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	Analyzed  10/18/21 16:44 10/18/21 16:44 10/18/21 16:44	CAS No. 646-31-1	Qua
Parameters  Bo15B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics	Results  Analytical Methodology Pace Analytical ND 13.0 56 73 Analytical Methodology Pace Analytical	usted for per Units nod: EPA 8018 I Services - K mg/kg mg/kg % % nod: EPA 8018 I Services - K	Report Limit  Report Limit  5B Preparation Meansas City  10.0 10.0 31-152 46-130  5B Preparation Meansas City	thod: E	Prepared  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	Analyzed  10/18/21 16:44 10/18/21 16:44 10/18/21 16:44 10/18/21 16:44	CAS No. 646-31-1	Qua
Parameters  Bo15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO	Results  Analytical Meth Pace Analytica  ND 13.0  56 73  Analytical Meth	Units  nod: EPA 8018 I Services - K mg/kg mg/kg % % nod: EPA 8018	Report Limit  Report Limit  5B Preparation Meansas City  10.0 10.0 31-152 46-130  5B Preparation Meansas City	omple so DF othod: E	Prepared  PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	Analyzed  10/18/21 16:44 10/18/21 16:44 10/18/21 16:44 10/18/21 16:44	CAS No. 646-31-1	Qua
Results reported on a "dry weight" Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates	Results  Analytical Methodology Pace Analytical ND 13.0 56 73 Analytical Methodology Pace Analytical Methodology Pace Analytical Methodology	usted for per Units nod: EPA 8018 I Services - K mg/kg mg/kg % nod: EPA 8018 I Services - K mg/kg	Report Limit  SB Preparation Metansas City  10.0 10.0 31-152 46-130  SB Preparation Metansas City  10.6	omple s  DF  othod: E  1  1  1  thod: E  othod: E	Prepared  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	10/18/21 16:44 10/18/21 16:44 10/18/21 16:44 10/18/21 16:44 10/18/21 16:44	CAS No. 646-31-1 92-94-4	Qua
Results reported on a "dry weight" Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates	Results  Analytical Methodology Pace Analytical ND 13.0 56 73 Analytical Methodology Pace Analytical	usted for per Units nod: EPA 8018 I Services - K mg/kg mg/kg % % nod: EPA 8018 I Services - K	Report Limit  Report Limit  5B Preparation Meansas City  10.0 10.0 31-152 46-130  5B Preparation Meansas City	thod: E	Prepared  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	Analyzed  10/18/21 16:44 10/18/21 16:44 10/18/21 16:44 10/18/21 16:44	CAS No. 646-31-1 92-94-4	Qua
Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Results  Analytical Meth Pace Analytical ND 13.0 56 73 Analytical Meth Pace Analytical ND 97	usted for per Units  nod: EPA 8018 I Services - K mg/kg mg/kg % nod: EPA 8018 I Services - K mg/kg	Report Limit  SB Preparation Metansas City  10.0 10.0 31-152 46-130  SB Preparation Metansas City  10.6	thod: E	PRA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 109:58	10/18/21 16:44 10/18/21 16:44 10/18/21 16:44 10/18/21 16:44 10/18/21 16:44	CAS No. 646-31-1 92-94-4	Qua
Results reported on a "dry weight" Parameters  B015B Diesel Range Organics  IPH-DRO (C10-C28) IPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics  IPH-GRO Surrogates 4-Bromofluorobenzene (S)	Results  Analytical Meth Pace Analytical ND 13.0 56 73 Analytical Meth Pace Analytical ND 97	usted for per Units  nod: EPA 8018 I Services - K mg/kg mg/kg % nod: EPA 8018 I Services - K mg/kg mg/kg	Report Limit  BB Preparation Metansas City  10.0 10.0 31-152 46-130  BB Preparation Metansas City  10.6 63-121  DB Preparation Metansas City	thod: E	PRA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 109:58	10/18/21 16:44 10/18/21 16:44 10/18/21 16:44 10/18/21 16:44 10/18/21 16:44	CAS No. 646-31-1 92-94-4	Qua
Parameters  Bo15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 4-Bromofluorobenzene (S) B260B MSV 5035A Low Level	Results  Analytical Meth Pace Analytical ND 13.0 56 73 Analytical Meth Pace Analytical ND 97 Analytical Meth Pace Analytical	usted for per Units  nod: EPA 8018 I Services - K. mg/kg mg/kg % nod: EPA 8018 I Services - K. mg/kg % nod: EPA 8260 I Services - K.	Report Limit  Report Limit  B Preparation Means City  10.0  10.0  31-152  46-130  5B Preparation Means City  10.6  63-121  DB Preparation Means City	thod: E	Prepared  PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B	10/18/21 16:44 10/18/21 16:44 10/18/21 16:44 10/18/21 16:44 10/18/21 16:46 10/18/21 16:46	CAS No. 646-31-1 92-94-4	Qua
Results reported on a "dry weight" Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260B MSV 5035A Low Level	Results  Analytical Meth Pace Analytical ND 13.0 56 73 Analytical Meth Pace Analytical ND 97 Analytical Meth Pace Analytical ND	usted for per Units  nod: EPA 8015 I Services - K mg/kg mg/kg % nod: EPA 8015 I Services - K mg/kg % l Services - K ug/kg	Report Limit  Report Limit  5B Preparation Metansas City  10.0 10.0 31-152 46-130  5B Preparation Metansas City  10.6 63-121  0B Preparation Metansas City  5.3	thod: E	Prepared  PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 109:58 10/18/21 09:58 PA 5035A/5030B  10/18/21 10:58	10/18/21 16:44 10/18/21 16:44 10/18/21 16:44 10/18/21 16:44 10/18/21 16:46 10/18/21 16:46	CAS No. 646-31-1 92-94-4 460-00-4	Qua
Results reported on a "dry weight" Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 4-Bromofluorobenzene (S)  8260B MSV 5035A Low Level  Benzene Ethylbenzene	Results  Analytical Meth Pace Analytical ND 13.0 56 73 Analytical Meth Pace Analytical ND 97 Analytical Meth Pace Analytical ND ND ND	usted for per Units  nod: EPA 8018 I Services - K mg/kg mg/kg % nod: EPA 8018 I Services - K mg/kg % l Services - K ug/kg ug/kg	Report Limit  Report Limit  5B Preparation Metansas City  10.0 10.0 31-152 46-130  5B Preparation Metansas City  10.6 63-121  0B Preparation Metansas City  5.3 5.3	thod: E	PRA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 10:58 10/18/21 09:58 PA 5035A/5030B  10/18/21 10:58 10/18/21 10:58 10/18/21 10:58	10/18/21 16:44 10/18/21 16:44 10/18/21 16:44 10/18/21 16:44 10/18/21 16:46 10/18/21 16:46	CAS No.  646-31-1 92-94-4  71-43-2 100-41-4	Qua
Results reported on a "dry weight" Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 1-Bromofluorobenzene (S) 8260B MSV 5035A Low Level  Benzene Ethylbenzene Foluene	Results  Analytical Meth Pace Analytical ND 13.0 56 73 Analytical Meth Pace Analytical ND 97 Analytical Meth Pace Analytical ND ND ND ND	usted for per Units  nod: EPA 8018 I Services - K mg/kg mg/kg % nod: EPA 8018 I Services - K mg/kg kg ug/kg ug/kg ug/kg	Report Limit  Report Limit  5B Preparation Metansas City  10.0  10.0  31-152  46-130  5B Preparation Metansas City  10.6  63-121  0B Preparation Metansas City  5.3  5.3  5.3	thod: E	PRA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58	10/18/21 16:44 10/18/21 16:44 10/18/21 16:44 10/18/21 16:44 10/18/21 16:46 10/18/21 16:46 10/18/21 12:54 10/18/21 12:54 10/18/21 12:54	CAS No.  646-31-1 92-94-4  71-43-2 100-41-4 108-88-3	Qua
Results reported on a "dry weight" Parameters  B015B Diesel Range Organics  IPH-DRO (C10-C28) IPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics  IPH-GRO Surrogates 4-Bromofluorobenzene (S)	Results  Analytical Meth Pace Analytical ND 13.0 56 73 Analytical Meth Pace Analytical ND 97 Analytical Meth Pace Analytical ND ND ND	usted for per Units  nod: EPA 8018 I Services - K mg/kg mg/kg % nod: EPA 8018 I Services - K mg/kg % l Services - K ug/kg ug/kg	Report Limit  Report Limit  5B Preparation Metansas City  10.0 10.0 31-152 46-130  5B Preparation Metansas City  10.6 63-121  0B Preparation Metansas City  5.3 5.3	thod: E	PRA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58	10/18/21 16:44 10/18/21 16:44 10/18/21 16:44 10/18/21 16:44 10/18/21 16:46 10/18/21 16:46	CAS No.  646-31-1 92-94-4  71-43-2 100-41-4 108-88-3	Qua

### **REPORT OF LABORATORY ANALYSIS**

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

Sample: NSW-11	Lab ID: 603	83397004	Collected: 10/13/2	21 11:15	Received: 10	)/16/21 09:15 N	/latrix: Solid	
Results reported on a "dry weight	" basis and are adj	usted for p	ercent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260B MSV 5035A Low Level	Analytical Meth	nod: EPA 82	260B Preparation Me	ethod: E	PA 5035A/5030B			
	Pace Analytica	l Services -	Kansas City					
Surrogates								
1-Bromofluorobenzene (S)	104	%	83-119	1	10/18/21 10:58	10/18/21 12:54	460-00-4	
,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	10/18/21 10:58	10/18/21 12:54	2199-69-1	
Percent Moisture	Analytical Meth	nod: ASTM	D2974					
	Pace Analytica	l Services -	Kansas City					
Percent Moisture	5.2	%	0.50	1		10/18/21 10:58		
0056 IC Anions	Analytical Meth	nod: EPA 90	056 Preparation Met	hod: EP	A 9056			
	Pace Analytica							
Chloride	154	mg/kg	105	10	10/18/21 11:35	10/18/21 20:46	16887-00-6	
	Label D. COO	22222	0-11-1-1 40/44/6	24 00 00	Description 40	N/40/04 00 45 B	A-retain Oaltal	
Sample: SSW-20	Lab ID: 603		Collected: 10/14/2				Matrix: Solid	
Results reported on a "dry weight	m basis and are adj	ustea for p	ercent moisture, sa	ımpıe s	ize and any dilu	tions.		
	<b>-</b>						0.4.0.1.1	_
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
			<u> </u>		<u> </u>	Analyzed	CAS No.	Qua
	Analytical Meth	nod: EPA 80	015B Preparation Me		<u> </u>	Analyzed	CAS No.	Qua
8015B Diesel Range Organics	Analytical Meth	nod: EPA 80 I Services -	015B Preparation Me Kansas City	ethod: E	PA 3546		CAS No.	Qua
3015B Diesel Range Organics  TPH-DRO (C10-C28)	Analytical Meth Pace Analytica 18.0	nod: EPA 80 I Services - mg/kg	015B Preparation Me Kansas City 11.0	ethod: E	PA 3546	10/18/21 16:52	CAS No.	Qua
3015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)	Analytical Meth	nod: EPA 80 I Services -	015B Preparation Me Kansas City	ethod: E	PA 3546		CAS No.	Qua
PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates	Analytical Meth Pace Analytica 18.0	nod: EPA 80 I Services - mg/kg	015B Preparation Me Kansas City 11.0	ethod: E	PA 3546  10/18/21 11:04 10/18/21 11:04	10/18/21 16:52		Qua
PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates I-Tetracosane (S)	Analytical Meth Pace Analytica 18.0 24.4	nod: EPA 80 I Services - mg/kg mg/kg	D15B Preparation Me Kansas City 11.0 11.0	ethod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	10/18/21 16:52 10/18/21 16:52	646-31-1	Qua
B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)	Analytical Meth Pace Analytica 18.0 24.4 57 76	nod: EPA 80 I Services - mg/kg mg/kg %	915B Preparation Me Kansas City 11.0 11.0 31-152 46-130	ethod: E 1 1 1 1	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	10/18/21 16:52 10/18/21 16:52 10/18/21 16:52 10/18/21 16:52	646-31-1	Qua
3015B Diesel Range Organics	Analytical Meth Pace Analytica  18.0 24.4  57 76  Analytical Meth	mod: EPA 80 I Services - mg/kg mg/kg % %	2015B Preparation Me Kansas City 11.0 11.0 31-152 46-130 2015B Preparation Me	ethod: E 1 1 1 1	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	10/18/21 16:52 10/18/21 16:52 10/18/21 16:52 10/18/21 16:52	646-31-1	Qua
PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates D-Tetracosane (S) D-Terphenyl (S) Gasoline Range Organics	Analytical Meth Pace Analytica 18.0 24.4 57 76 Analytical Meth Pace Analytica	mod: EPA 80 I Services - mg/kg mg/kg % % nod: EPA 80	D15B Preparation Me Kansas City  11.0 11.0 31-152 46-130 D15B Preparation Me Kansas City	ethod: E  1 1 1 1 1 ethod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B	10/18/21 16:52 10/18/21 16:52 10/18/21 16:52 10/18/21 16:52	646-31-1	Qua
PH-DRO (C10-C28) PH-DRO (C28-C35) FH-ORO (C28-C35) FURDAMENTAL CONTROL (S) FOR THE TRANSPORT OF THE TRANSPOR	Analytical Meth Pace Analytica  18.0 24.4  57 76  Analytical Meth	mod: EPA 80 I Services - mg/kg mg/kg % %	2015B Preparation Me Kansas City 11.0 11.0 31-152 46-130 2015B Preparation Me	ethod: E 1 1 1 1	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B	10/18/21 16:52 10/18/21 16:52 10/18/21 16:52 10/18/21 16:52	646-31-1	Qua
FPH-GRO  Gonomics  FPH-DRO (C10-C28)  FPH-ORO (C28-C35)  FORT (C28-C35)  FORT (C28-C35)  FORT (C28-C35)  FORT (C28-C35)  FORT (C38-C35)  FORT (C38-C35)  FPH-GRO  FORT (C38-C35)  FPH-GRO  Fort (C38-C35)  FPH-GRO  Fort (C38-C35)  FORT (C38-	Analytical Meth Pace Analytica 18.0 24.4 57 76 Analytical Meth Pace Analytica	mod: EPA 80 I Services - mg/kg mg/kg % % nod: EPA 80	D15B Preparation Me Kansas City  11.0 11.0 31-152 46-130 D15B Preparation Me Kansas City	ethod: E  1 1 1 1 1 ethod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58	10/18/21 16:52 10/18/21 16:52 10/18/21 16:52 10/18/21 16:52	646-31-1 92-94-4	Qua
B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics  FPH-GRO Surrogates I-Bromofluorobenzene (S)	Analytical Meth Pace Analytica  18.0 24.4  57 76  Analytical Meth Pace Analytical ND	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg	2015B Preparation Me 11.0 11.0 21-152 46-130 2015B Preparation Me Kansas City 12.4 63-121	ethod: E  1 1 1 1 ethod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58 10/18/21 09:58	10/18/21 16:52 10/18/21 16:52 10/18/21 16:52 10/18/21 16:52 10/18/21 17:01 10/18/21 17:01	646-31-1 92-94-4	Qua
B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics  FPH-GRO Surrogates I-Bromofluorobenzene (S)	Analytical Meth Pace Analytica  18.0 24.4  57 76  Analytical Meth Pace Analytica  ND  97  Analytical Meth	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg %	250B Preparation Me Canada City  11.0 11.0 31-152 46-130 015B Preparation Me Canada City  12.4 63-121	ethod: E  1 1 1 1 ethod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58 10/18/21 09:58	10/18/21 16:52 10/18/21 16:52 10/18/21 16:52 10/18/21 16:52 10/18/21 17:01 10/18/21 17:01	646-31-1 92-94-4	Qua
3015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics  TPH-GRO Surrogates 1-Bromofluorobenzene (S) 3260B MSV 5035A Low Level	Analytical Meth Pace Analytica  18.0 24.4  57 76  Analytical Meth Pace Analytica  ND  97  Analytical Meth Pace Analytical Meth	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg %	260B Preparation Medical Reparation Medical Reparat	ethod: E  1 1 1 1 1 1 1 tethod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B	10/18/21 16:52 10/18/21 16:52 10/18/21 16:52 10/18/21 16:52 10/18/21 17:01 10/18/21 17:01	646-31-1 92-94-4 460-00-4	Qua
B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 1-Bromofluorobenzene (S) B260B MSV 5035A Low Level	Analytical Meth Pace Analytica  18.0 24.4  57 76  Analytical Meth Pace Analytica  ND  97  Analytical Meth Pace Analytical Meth	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg % l Services - ug/kg	260B Preparation Metals Ransas City  11.0  31-152  46-130  215B Preparation Metals City  12.4  63-121  260B Preparation Metals Ransas City  Kansas City  6.2	ethod: E  1 1 1 1 1 1 1 tethod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B	10/18/21 16:52 10/18/21 16:52 10/18/21 16:52 10/18/21 16:52 10/18/21 17:01 10/18/21 17:01	646-31-1 92-94-4 460-00-4 71-43-2	Qua
io15B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates Tetracosane (S) Te	Analytical Meth Pace Analytica  18.0 24.4  57 76  Analytical Meth Pace Analytica  ND  97  Analytical Meth Pace Analytical ND ND	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg % nod: EPA 82 I Services - ug/kg ug/kg	2015B Preparation Medical Kansas City  11.0 11.0 31-152 46-130  2015B Preparation Medical Kansas City  12.4 63-121 260B Preparation Medical Kansas City  6.2 6.2	ethod: E  1 1 1 1 1 1 1 ethod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B  10/18/21 10:58 10/18/21 10:58	10/18/21 16:52 10/18/21 16:52 10/18/21 16:52 10/18/21 16:52 10/18/21 17:01 10/18/21 17:01 10/18/21 13:14 10/18/21 13:14	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4	Qua
B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates D-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates L-Bromofluorobenzene (S) B260B MSV 5035A Low Level  Genzene Ethylbenzene Foluene	Analytical Meth Pace Analytica  18.0 24.4  57 76  Analytical Meth Pace Analytica  ND  97  Analytical Meth Pace Analytical MD ND ND	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg % nod: EPA 82 I Services - ug/kg ug/kg ug/kg	2015B Preparation Median Ransas City  11.0 11.0 31-152 46-130 2015B Preparation Median Ransas City  12.4 63-121 260B Preparation Median Ransas City  6.2 6.2 6.2 6.2	ethod: E  1 1 1 1 1 1 1 ethod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B  10/18/21 10:58 10/18/21 10:58 10/18/21 10:58	10/18/21 16:52 10/18/21 16:52 10/18/21 16:52 10/18/21 16:52 10/18/21 17:01 10/18/21 17:01 10/18/21 13:14 10/18/21 13:14 10/18/21 13:14	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	Qua
RO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates D-Tetracosane (S) D-Terphenyl (S) Gasoline Range Organics  FPH-GRO Surrogates L-Bromofluorobenzene (S) R260B MSV 5035A Low Level  Genzene Ethylbenzene Foluene Kylene (Total)	Analytical Meth Pace Analytica  18.0 24.4  57 76  Analytical Meth Pace Analytica  ND  97  Analytical Meth Pace Analytical ND ND	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg % nod: EPA 82 I Services - ug/kg ug/kg	2015B Preparation Medical Kansas City  11.0 11.0 31-152 46-130  2015B Preparation Medical Kansas City  12.4 63-121 260B Preparation Medical Kansas City  6.2 6.2	ethod: E  1 1 1 1 1 1 1 ethod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B  10/18/21 10:58 10/18/21 10:58 10/18/21 10:58	10/18/21 16:52 10/18/21 16:52 10/18/21 16:52 10/18/21 16:52 10/18/21 17:01 10/18/21 17:01 10/18/21 13:14 10/18/21 13:14	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	Qua
B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates I-Bromofluorobenzene (S) B260B MSV 5035A Low Level  Genzene Ethylbenzene Foluene Kylene (Total) Surrogates Surrogates	Analytical Meth Pace Analytica  18.0 24.4  57 76  Analytical Meth Pace Analytica  ND  97  Analytical Meth Pace Analytical MD ND ND	mod: EPA 80 I Services - mg/kg mg/kg % mod: EPA 80 I Services - mg/kg % nod: EPA 82 I Services - ug/kg ug/kg ug/kg ug/kg	2015B Preparation Median Ransas City  11.0 11.0 31-152 46-130 2015B Preparation Median Ransas City  12.4 63-121 260B Preparation Median Ransas City  6.2 6.2 6.2 6.2	ethod: E  1 1 1 1 1 1 1 thod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B  10/18/21 10:58 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58	10/18/21 16:52 10/18/21 16:52 10/18/21 16:52 10/18/21 16:52 10/18/21 17:01 10/18/21 17:01 10/18/21 13:14 10/18/21 13:14 10/18/21 13:14	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7	Qua
GO15B Diesel Range Organics  GPH-DRO (C10-C28)  GPH-ORO (C28-C35)  Surrogates  n-Tetracosane (S)  p-Terphenyl (S)	Analytical Meth Pace Analytica  18.0 24.4  57 76  Analytical Meth Pace Analytical ND 97  Analytical Meth Pace Analytical ND ND ND ND ND ND ND	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg % nod: EPA 82 I Services - ug/kg ug/kg ug/kg	11.0 11.0 11.0 11.0 31-152 46-130 015B Preparation Me Kansas City 12.4 63-121 260B Preparation Me Kansas City	ethod: E  1 1 1 1 1 1 ethod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B  10/18/21 10:58 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58	10/18/21 16:52 10/18/21 16:52 10/18/21 16:52 10/18/21 16:52 10/18/21 17:01 10/18/21 17:01 10/18/21 13:14 10/18/21 13:14 10/18/21 13:14	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7 2037-26-5	Qua

### **REPORT OF LABORATORY ANALYSIS**

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#### **ANALYTICAL RESULTS**

Sample: SSW-20	Lab ID: 603	83397005	Collected: 10/14/2	1 08:30	Received: 10	)/16/21 09:15 I	Matrix: Solid	
Results reported on a "dry weight	" basis and are adj	iusted for p	ercent moisture, sa	mple si	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Meth Pace Analytica							
Percent Moisture	11.4	%	0.50	1		10/18/21 10:58	3	
0056 IC Anions	Analytical Metl Pace Analytica		56 Preparation Meth Kansas City	od: EPA	A 9056			
Chloride	2510	mg/kg	225	20	10/18/21 11:35	10/19/21 10:32	2 16887-00-6	
Sample: SSW-21	Lab ID: 603	83397006	Collected: 10/14/2	1 08:35	Received: 10	)/16/21 09:15	Matrix: Solid	
Results reported on a "dry weight	" basis and are adj	iusted for p	ercent moisture, sa	mple si	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
3015B Diesel Range Organics	Analytical Metl	hod: EPA 80	15B Preparation Me	thod: El	PA 3546			
	Pace Analytica		•					
FPH-DRO (C10-C28)	13.5	al Services - mg/kg	Kansas City	1	10/18/21 11:04	10/18/21 17:00		
FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates	•	al Services -	Kansas City		10/18/21 11:04	10/18/21 17:00 10/18/21 17:00		
ГРН-ORO (C28-C35)	13.5	al Services - mg/kg	Kansas City	1	10/18/21 11:04 10/18/21 11:04		)	
FPH-ORO (C28-C35) Surrogates	13.5 15.1	al Services - mg/kg mg/kg	Kansas City 10.8 10.8	1 1	10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	10/18/21 17:00	) 646-31-1	
FPH-ORO (C28-C35)  Surrogates n-Tetracosane (S)	13.5 15.1 56 75	nl Services - mg/kg mg/kg % % hod: EPA 80	10.8 10.8 10.8 31-152 46-130 15B Preparation Me	1 1 1	10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	10/18/21 17:00 10/18/21 17:00 10/18/21 17:00	) 646-31-1	
FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics FPH-GRO	13.5 15.1 56 75 Analytical Meth	nl Services - mg/kg mg/kg % % hod: EPA 80	10.8 10.8 10.8 31-152 46-130 15B Preparation Me	1 1 1	10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B	10/18/21 17:00 10/18/21 17:00 10/18/21 17:00	) 646-31-1 ) 92-94-4	
FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics	13.5 15.1 56 75 Analytical Meth Pace Analytica	al Services - mg/kg mg/kg % hod: EPA 80	10.8 10.8 31-152 46-130 15B Preparation Me Kansas City	1 1 1 1 thod: Ef	10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B 10/18/21 09:58	10/18/21 17:00 10/18/21 17:00 10/18/21 17:00	) 646-31-1 ) 92-94-4	
FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics FPH-GRO Surrogates	13.5 15.1 56 75 Analytical Meth Pace Analytica ND 97 Analytical Meth	mg/kg mg/kg % % hod: EPA 80 al Services - mg/kg % hod: EPA 82	10.8 10.8 31-152 46-130 15B Preparation Me Kansas City 12.8 63-121	1 1 1 1 thod: El	10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B 10/18/21 09:58 10/18/21 09:58	10/18/21 17:00 10/18/21 17:00 10/18/21 17:00 10/18/21 17:16 10/18/21 17:16	) 646-31-1 ) 92-94-4	
FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics FPH-GRO Surrogates 4-Bromofluorobenzene (S) 3260B MSV 5035A Low Level	13.5 15.1 56 75 Analytical Meth Pace Analytica ND 97 Analytical Meth Pace Analytical	mg/kg mg/kg % hod: EPA 80 al Services - mg/kg % hod: EPA 82 al Services -	Kansas City  10.8  10.8  31-152  46-130  15B Preparation Me Kansas City  12.8  63-121  60B Preparation Me Kansas City	1 1 1 thod: El 1 1 thod: El	10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B 10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B	10/18/21 17:00 10/18/21 17:00 10/18/21 17:00 10/18/21 17:16 10/18/21 17:16	) 646-31-1 ) 92-94-4 6 460-00-4	
FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics FPH-GRO Surrogates 1-Bromofluorobenzene (S) 3260B MSV 5035A Low Level Benzene	13.5 15.1 56 75 Analytical Meth Pace Analytica ND 97 Analytical Meth	mg/kg mg/kg % hod: EPA 80 al Services - mg/kg % hod: EPA 82 al Services - ug/kg	10.8 10.8 31-152 46-130 15B Preparation Me Kansas City 12.8 63-121	1 1 1 1 thod: El	10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B 10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B	10/18/21 17:00 10/18/21 17:00 10/18/21 17:00 10/18/21 17:16 10/18/21 17:16	6 460-00-4 71-43-2	
FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics FPH-GRO Surrogates 1-Bromofluorobenzene (S) 8260B MSV 5035A Low Level Genzene Ethylbenzene	13.5 15.1 56 75 Analytical Meth Pace Analytica ND 97 Analytical Meth Pace Analytical	mg/kg mg/kg % hod: EPA 80 al Services - mg/kg % hod: EPA 82 al Services -	Kansas City  10.8 10.8 31-152 46-130 15B Preparation Me Kansas City 12.8 63-121 60B Preparation Me Kansas City 6.4	1 1 1 thod: El 1 thod: El	10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B 10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B 10/18/21 10:58 10/18/21 10:58	10/18/21 17:00 10/18/21 17:00 10/18/21 17:00 10/18/21 17:16 10/18/21 17:16 10/18/21 13:34	6 460-00-4 71-43-2 1 100-41-4	
FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics FPH-GRO Surrogates 4-Bromofluorobenzene (S) 3260B MSV 5035A Low Level	13.5 15.1 56 75 Analytical Meth Pace Analytica ND 97 Analytical Meth Pace Analytical ND ND ND	mg/kg mg/kg % hod: EPA 80 al Services - mg/kg % hod: EPA 82 ug/kg ug/kg	Kansas City  10.8 10.8 31-152 46-130 15B Preparation Me Kansas City 12.8 63-121 60B Preparation Me Kansas City 6.4 6.4	1 1 1 thod: El 1 thod: El	10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B 10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58	10/18/21 17:00 10/18/21 17:00 10/18/21 17:00 10/18/21 17:16 10/18/21 17:16 10/18/21 13:34 10/18/21 13:34	6 460-00-4 71-43-2 1 100-41-4 1 108-88-3	
FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics FPH-GRO Surrogates 1-Bromofluorobenzene (S) B260B MSV 5035A Low Level Genzene Ethylbenzene Foluene Kylene (Total)	13.5 15.1 56 75 Analytical Meth Pace Analytical ND ND ND ND ND	mg/kg mg/kg % hod: EPA 80 al Services - mg/kg % hod: EPA 82 ug/kg ug/kg ug/kg	10.8 10.8 10.8 31-152 46-130 15B Preparation Me Kansas City 12.8 63-121 60B Preparation Me Kansas City 6.4 6.4	1 1 1 thod: El 1 thod: El	10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B 10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58	10/18/21 17:00 10/18/21 17:00 10/18/21 17:00 10/18/21 17:16 10/18/21 17:16 10/18/21 13:34 10/18/21 13:34 10/18/21 13:34	6 460-00-4 71-43-2 1 100-41-4 1 108-88-3 1 1330-20-7	
FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics FPH-GRO Surrogates 1-Bromofluorobenzene (S) B260B MSV 5035A Low Level Genzene Ethylbenzene Foluene Kylene (Total) Surrogates	13.5 15.1 56 75 Analytical Meth Pace Analytical Meth Pace Analytical Meth Pace Analytical Meth Pace Analytical Moth ND	mg/kg mg/kg % hod: EPA 80 al Services - mg/kg % hod: EPA 82 ug/kg ug/kg ug/kg ug/kg	10.8 10.8 10.8 31-152 46-130 15B Preparation Me Kansas City 12.8 63-121 60B Preparation Me Kansas City 6.4 6.4 6.4 19.3	1 1 1 thod: El 1 thod: El 1 1 1	10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B 10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58	10/18/21 17:00 10/18/21 17:00 10/18/21 17:00 10/18/21 17:16 10/18/21 17:16 10/18/21 13:34 10/18/21 13:34 10/18/21 13:34	6 460-00-4 4 71-43-2 4 100-41-4 4 108-88-3 4 1330-20-7 4 2037-26-5	

### **REPORT OF LABORATORY ANALYSIS**

Analytical Method: EPA 9056 Preparation Method: EPA 9056

0.50

224

20

Pace Analytical Services - Kansas City

Pace Analytical Services - Kansas City

mg/kg

12.8

2800

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10/18/21 11:35 10/19/21 10:47 16887-00-6

Percent Moisture

9056 IC Anions

Date: 11/01/2021 02:48 PM

Chloride



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

Sample: SSW-22	Lab ID: 603	<b>83397007</b> C	ollected: 10/14/2	21 08:40	Received: 10	)/16/21 09:15 N	latrix: Solid	
Results reported on a "dry weight	" basis and are adj	iusted for perd	ent moisture, sa	imple s	size and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Meth	hod: EPA 8015	B Preparation Me	ethod: E	EPA 3546			
	Pace Analytica	al Services - Ka	nsas City					
PH-DRO (C10-C28)	13.2	mg/kg	10.7	1	10/18/21 11:04	10/18/21 17:08		
PH-ORO (C28-C35) Surrogates	23.7	mg/kg	10.7	1		10/18/21 17:08		
-Tetracosane (S)	56	%	31-152	1	10/18/21 11:04	10/18/21 17:08	646-31-1	
-Terphenyl (S)	76	%	46-130	1	10/18/21 11:04	10/18/21 17:08	92-94-4	
Sasoline Range Organics	Analytical Metl Pace Analytica		•	ethod: E	EPA 5035A/5030B			
ГРН-GRO Surrogates	ND	mg/kg	11.6	1	10/18/21 09:58	10/18/21 17:31		
4-Bromofluorobenzene (S)	97	%	63-121	1	10/18/21 09:58	10/18/21 17:31	460-00-4	
3260B MSV 5035A Low Level	Analytical Meth Pace Analytica			ethod: E	EPA 5035A/5030B			
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	
oluene	ND	ug/kg	5.8	1	10/18/21 10:58	10/18/21 13:55	108-88-3	
(ylene (Total) <b>Surrogates</b>	ND	ug/kg	17.4	1	10/18/21 10:58	10/18/21 13:55	1330-20-7	
Toluene-d8 (S)	107	%	80-120	1	10/18/21 10:58	10/18/21 13:55	2037-26-5	
-Bromofluorobenzene (S)	108	%	83-119	1		10/18/21 13:55		
,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	10/18/21 10:58	10/18/21 13:55	2199-69-1	
ercent Moisture	Analytical Meth							
	Pace Analytica	al Services - Ka	nsas City					
Percent Moisture	7.6	%	0.50	1		10/18/21 10:58		
056 IC Anions	Analytical Meth	nod: EPA 9056	Preparation Met	hod: EF	PA 9056			
	Pace Analytica	al Services - Ka	nsas 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: 603	92207009 (	collected: 10/14/5	01 00:41	5 Received: 10	V/16/21 00:15 N	latrice Calid	
Results reported on a "dry weight							iatrix. Soliu	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Meth		B Preparation Me	ethod: E	EPA 3546			
PH-DRO (C10-C28)	99.7	mg/kg	10.4	1	10/18/21 11:04	10/19/21 09:38		
ГРН-ORO (C28-C35)	148	mg/kg	10.4	1		10/19/21 09:38		
Surrogates		5 5			-			
n-Tetracosane (S)	77	%	31-152	1	10/18/21 11:04	10/19/21 09:38	646-31-1	
o-Terphenyl (S)	85	%	46-130	1	10/18/21 11:04	10/10/21 00:20	02 04 4	

### **REPORT OF LABORATORY ANALYSIS**

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

Sample: SSW-23	Lab ID: 603	3397008	Collected: 10/14/2	1 08:45	Received: 10	/16/21 09:15 N	Matrix: Solid	
Results reported on a "dry weight	t" basis and are adj	usted for p	ercent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
Gasoline Range Organics	Analytical Meth	od: EPA 80	015B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica	l 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 00:58	10/18/21 17:46	460-00-4	
							400-00-4	
3260B MSV 5035A Low Level	•		260B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica	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		3 3						
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 14:15		
1,2 21611616261126116 41 (6)	O1	70	00 120	•	10/10/21 10:00	10/10/21 11:10	2100 00 1	
Percent Moisture	Analytical Meth	od: ASTM I	D2974					
	Pace Analytica	l Services -	Kansas City					
Percent Moisture	9.2	%	0.50	1		10/18/21 10:58		
9056 IC Anions	Analytical Meth	od: EPA 90	56 Preparation Meth	od: EP	A 9056			
	Pace Analytica							
Chloride	659	mg/kg	111	10	10/18/21 11:35	10/18/21 22:06	16887-00-6	
Chloride	659	mg/kg	-	10	10/18/21 11:35	10/18/21 22:06	16887-00-6	
	659 Lab ID: 603		-				16887-00-6 Matrix: Solid	
Sample: SSW-24	Lab ID: 603	33397009	111 Collected: 10/13/2	1 11:28	Received: 10	/16/21 09:15 N		
Sample: SSW-24	Lab ID: 603	33397009	111 Collected: 10/13/2	1 11:28	Received: 10	/16/21 09:15 N		Qua
Sample: SSW-24 Results reported on a "dry weight Parameters	Lab ID: 603t " basis and are adj Results	33397009 usted for p Units	Collected: 10/13/2 ercent moisture, sa Report Limit	1 11:28 <i>mple s</i> DF	Received: 10 ize and any dilute Prepared	/16/21 09:15 <b>N</b>	Matrix: Solid	Qua
Sample: SSW-24 Results reported on a "dry weight Parameters	Lab ID: 603t " basis and are adj Results	33397009 usted for p Units	Collected: 10/13/2 ercent moisture, sa Report Limit	1 11:28 <i>mple s</i> DF	Received: 10 ize and any dilute Prepared	/16/21 09:15 <b>N</b>	Matrix: Solid	Qua
Sample: SSW-24 Results reported on a "dry weight Parameters B015B Diesel Range Organics	Lab ID: 6036 " basis and are adj Results  Analytical Meth Pace Analytica	33397009 usted for p Units nod: EPA 80	Collected: 10/13/2 percent moisture, sa Report Limit  D15B Preparation Me Kansas City	1 11:28 <i>mple s</i> DF	Received: 10 ize and any dilute Prepared PA 3546	/16/21 09:15 <b>N</b> tions. Analyzed	Matrix: Solid  CAS No.	Qua
Sample: SSW-24 Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28)	Lab ID: 6036 " basis and are adj Results  Analytical Meth Pace Analytica  15.5	33397009 usted for p Units nod: EPA 80 I Services - mg/kg	Collected: 10/13/2 percent moisture, sa Report Limit 015B Preparation Me Kansas City 10.6	1 11:28 mple s DF thod: E	Received: 10 ize and any dilute Prepared PA 3546 10/18/21 11:04	/16/21 09:15	Matrix: Solid  CAS No.	Qua
Sample: SSW-24 Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35)	Lab ID: 6036 " basis and are adj Results  Analytical Meth Pace Analytica	33397009 usted for p Units nod: EPA 80	Collected: 10/13/2 percent moisture, sa Report Limit  D15B Preparation Me Kansas City	1 11:28 mple s DF thod: E	Received: 10 ize and any dilute Prepared PA 3546 10/18/21 11:04	/16/21 09:15 <b>N</b> tions. Analyzed	Matrix: Solid  CAS No.	Qua
Sample: SSW-24 Results reported on a "dry weight Parameters  3015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates	Lab ID: 6036 " basis and are adj Results  Analytical Meth Pace Analytica  15.5 33.2	33397009 usted for p Units nod: EPA 80 I Services - mg/kg mg/kg	Collected: 10/13/2 percent moisture, sa Report Limit 015B Preparation Me Kansas City 10.6 10.6	1 11:28 <b>mple s</b> DF  thod: E	PRA 3546  10/18/21 11:04 10/18/21 11:04	/16/21 09:15	Matrix: Solid  CAS No.	Qua
Sample: SSW-24 Results reported on a "dry weight Parameters  3015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S)	Lab ID: 6036 " basis and are adj Results  Analytical Meth Pace Analytica 15.5 33.2	33397009 usted for p Units nod: EPA 80 I Services - mg/kg mg/kg	Collected: 10/13/2 percent moisture, sa Report Limit 015B Preparation Me Kansas City 10.6 10.6 31-152	1 11:28 <b>mple s</b> DF  thod: E	PA 3546  10/18/21 11:04 10/18/21 11:04	/16/21 09:15	CAS No.	Qua
Sample: SSW-24 Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S)	Lab ID: 6036 " basis and are adj Results  Analytical Meth Pace Analytica  15.5 33.2	33397009 usted for p Units nod: EPA 80 I Services - mg/kg mg/kg	Collected: 10/13/2 percent moisture, sa Report Limit 015B Preparation Me Kansas City 10.6 10.6	1 11:28 <b>mple s</b> DF  thod: E	PA 3546  10/18/21 11:04 10/18/21 11:04	/16/21 09:15	CAS No.	Qua
Sample: SSW-24 Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Lab ID: 6036 t" basis and are adj Results Analytical Meth Pace Analytica 15.5 33.2 50 66	Units  Units  Od: EPA 80 I Services -  mg/kg  mg/kg  %	Collected: 10/13/2 percent moisture, sa Report Limit 015B Preparation Me Kansas City 10.6 10.6 31-152	1 11:28  mple s  DF  thod: E  1 1 1	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	10/18/21 17:24 10/18/21 17:24 10/18/21 17:24	CAS No.	Qua
Sample: SSW-24 Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Lab ID: 6036 T basis and are adj Results  Analytical Meth Pace Analytica 15.5 33.2 50 66 Analytical Meth	33397009  Units  Hod: EPA 80  I Services -  mg/kg  mg/kg  %  hod: EPA 80	Collected: 10/13/2 percent moisture, sa Report Limit 015B Preparation Me Kansas City 10.6 10.6 31-152 46-130 015B Preparation Me	1 11:28  mple s  DF  thod: E  1 1 1	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	10/18/21 17:24 10/18/21 17:24 10/18/21 17:24	CAS No.	Qua
Sample: SSW-24 Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics	Lab ID: 603t Passis and are adj Results  Analytical Meth Pace Analytica  15.5 33.2  50 66  Analytical Meth Pace Analytical Meth	Units  Od: EPA 80 I Services -  mg/kg  mg/kg  %  od: EPA 80 I Services -	Collected: 10/13/2 Percent moisture, sa Report Limit 015B Preparation Me Kansas City 10.6 10.6 31-152 46-130 015B Preparation Me Kansas City	1 11:28 mple s DF thod: E  1 1 1 thod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	/16/21 09:15 Milons.  Analyzed  10/18/21 17:24 10/18/21 17:24 10/18/21 17:24	Matrix: Solid  CAS No.  646-31-1 92-94-4	Qua
Sample: SSW-24 Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics	Lab ID: 6036 T basis and are adj Results  Analytical Meth Pace Analytica 15.5 33.2 50 66 Analytical Meth	33397009  Units  Hod: EPA 80  I Services -  mg/kg  mg/kg  %  hod: EPA 80	Collected: 10/13/2 percent moisture, sa Report Limit 015B Preparation Me Kansas City 10.6 10.6 31-152 46-130 015B Preparation Me	1 11:28  mple s  DF  thod: E  1 1 1	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	10/18/21 17:24 10/18/21 17:24 10/18/21 17:24	Matrix: Solid  CAS No.  646-31-1 92-94-4	Qua
Sample: SSW-24 Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)	Lab ID: 603t Passis and are adj Results  Analytical Meth Pace Analytica  15.5 33.2  50 66  Analytical Meth Pace Analytical Meth	Units  Od: EPA 80 I Services -  mg/kg  mg/kg  %  od: EPA 80 I Services -	Collected: 10/13/2 Percent moisture, sa Report Limit 015B Preparation Me Kansas City 10.6 10.6 31-152 46-130 015B Preparation Me Kansas City	1 11:28 mple s DF thod: E  1 1 1 thod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 09:58	/16/21 09:15 Milons.  Analyzed  10/18/21 17:24 10/18/21 17:24 10/18/21 17:24	Matrix: Solid  CAS No.  646-31-1 92-94-4	Qua

### **REPORT OF LABORATORY ANALYSIS**

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### **ANALYTICAL RESULTS**

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

Sample: SSW-24	Lab ID: 603	83397009	Collected: 10/13/2	1 11:28	Received: 10	/16/21 09:15 M	latrix: Solid	
Results reported on a "dry weight	t" basis and are adj	usted for pe	rcent moisture, sa	mple s	ize and any dilut	ions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260B MSV 5035A Low Level	Analytical Meth	nod: EPA 826	0B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica	l Services - K	Cansas 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 ug/kg	5.6	1		10/18/21 14:35		
Toluene	ND	ug/kg ug/kg	5.6	1		10/18/21 14:35		
Xylene (Total)	ND	ug/kg ug/kg	16.9	1		10/18/21 14:35		
Surrogates	ND	ug/kg	10.9	'	10/10/21 10:30	10/10/21 14.55	1330-20-7	
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 14:35		
I,2-Dichlorobenzene-d4 (S)	96	%	80-120	1		10/18/21 14:35		
				•	10/10/21 10:00	. 6, . 6, 2		
Percent Moisture	Analytical Meth							
	Pace Analytica	l Services - K	Cansas City					
Percent Moisture	10.1	%	0.50	1		10/18/21 10:58		
9056 IC Anions	Analytical Meth	nod: EPA 905	6 Preparation Meth	nod: EP	A 9056			
	Pace Analytica							
Chloride	3190	mg/kg	544	50	40/40/04 44 05	10/19/21 11:21	40007.00.0	
2								
Sample: SSW-25	Lab ID: 603 " basis and are adj	83397010	Collected: 10/13/2				latrix: Solid	
Sample: SSW-25		83397010					latrix: Solid	Qua
Sample: SSW-25 Results reported on a "dry weight Parameters	Results	83397010 usted for per Units	Report Limit	mple s	ize and any dilut	ions.		Qua
Sample: SSW-25 Results reported on a "dry weight Parameters	Results Analytical Meth	83397010 fusted for per Units nod: EPA 801	Report Limit 5B Preparation Me	mple s	ize and any dilut	ions.		Qua
Sample: SSW-25 Results reported on a "dry weight Parameters	Results	83397010 fusted for per Units nod: EPA 801	Report Limit 5B Preparation Me	mple s	ize and any dilut	ions.		Qua
Sample: SSW-25 Results reported on a "dry weight Parameters 8015B Diesel Range Organics	Results Analytical Meth	83397010 usted for per Units nod: EPA 801 I Services - K	Report Limit 5B Preparation Me	mple s	PA 3546	ions.		Qua
Sample: SSW-25 Results reported on a "dry weight Parameters  3015B Diesel Range Organics  FPH-DRO (C10-C28)	Results  Analytical Methorace Analytica	83397010 usted for per Units nod: EPA 801 I Services - K mg/kg	Report Limit  5B Preparation Me  Kansas City	mple s  DF  thod: E	PA 3546	Analyzed		Qua
Sample: SSW-25 Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35)	Results  Analytical Methorace Analytical ND	83397010 usted for per Units nod: EPA 801 I Services - K	Report Limit  5B Preparation Me  Kansas City  10.9	mple s  DF  thod: E	PA 3546	Analyzed 10/18/21 17:33		Qua
Sample: SSW-25 Results reported on a "dry weight Parameters  3015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates	Results  Analytical Methorace Analytical ND	83397010 usted for per Units nod: EPA 801 I Services - K mg/kg	Report Limit  5B Preparation Me  Kansas City  10.9	mple s  DF  thod: E	PA 3546  10/18/21 11:04 10/18/21 11:04	Analyzed 10/18/21 17:33	CAS No.	Qua
Sample: SSW-25 Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S)	Results  Analytical Meth Pace Analytica  ND 26.0	B3397010 Units Units  nod: EPA 801 I Services - K mg/kg mg/kg	Report Limit  5B Preparation Me Cansas City  10.9 10.9	mple s  DF  thod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	Analyzed  10/18/21 17:33 10/18/21 17:33	CAS No. 646-31-1	Qua
Sample: SSW-25 Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Analytical Methodology Pace Analytical ND 26.0 58 73	B3397010  Fusted for performance Units  Indoor: EPA 801  I Services - K  mg/kg  mg/kg  %  %	Report Limit  5B Preparation Me  Cansas City  10.9  10.9  31-152  46-130	mple s  DF  thod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	Analyzed  10/18/21 17:33 10/18/21 17:33 10/18/21 17:33	CAS No. 646-31-1	Qua
Sample: SSW-25 Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Analytical Methodology  Analytical Methodology  Analytical Methodology  Analytical Methodology  Analytical Methodology  Analytical Methodology	B3397010 Units Units  nod: EPA 801. I Services - K mg/kg mg/kg % % nod: EPA 801.	Report Limit  5B Preparation Me Cansas City  10.9 10.9 31-152 46-130  5B Preparation Me	mple s  DF  thod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	Analyzed  10/18/21 17:33 10/18/21 17:33 10/18/21 17:33	CAS No. 646-31-1	Qua
Sample: SSW-25 Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Analytical Methodology Pace Analytical ND 26.0 58 73	B3397010 Units Units  nod: EPA 801. I Services - K mg/kg mg/kg % % nod: EPA 801.	Report Limit  5B Preparation Me Cansas City  10.9 10.9 31-152 46-130  5B Preparation Me	mple s  DF  thod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	Analyzed  10/18/21 17:33 10/18/21 17:33 10/18/21 17:33	CAS No. 646-31-1	Qua
Sample: SSW-25 Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics	Results  Analytical Methodology Pace Analytical ND 26.0 58 73  Analytical Methodology Pace Analytical Methodology	B3397010 Units Units  nod: EPA 801. I Services - K mg/kg mg/kg % % nod: EPA 801.	Report Limit  5B Preparation Me Cansas City  10.9 10.9 31-152 46-130  5B Preparation Me	mple s  DF  thod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 17:33	CAS No. 646-31-1	Qua
Sample: SSW-25 Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S) Gasoline Range Organics  TPH-GRO Surrogates	Results  Analytical Meth Pace Analytica  ND 26.0  58 73  Analytical Meth Pace Analytical Meth	B3397010  usted for per Units  nod: EPA 801  I Services - K mg/kg mg/kg % nod: EPA 801  I Services - K	Report Limit  5B Preparation Me Cansas City  10.9  10.9  31-152  46-130  5B Preparation Me Cansas City  12.1	mple s  DF  thod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58	10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 17:33	CAS No. 646-31-1 92-94-4	Qua
Sample: SSW-25 Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S) Gasoline Range Organics  TPH-GRO Surrogates	Results  Analytical Methodology Pace Analytical ND 26.0 58 73  Analytical Methodology Pace Analytical Methodology	B3397010  usted for per Units  nod: EPA 801  I Services - K  mg/kg  mg/kg  %  nod: EPA 801  I Services - K	Report Limit  5B Preparation Me  (ansas City  10.9  10.9  31-152  46-130  5B Preparation Me  (ansas City	mple s  DF  thod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58	10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 17:33	CAS No. 646-31-1 92-94-4	Qua
Sample: SSW-25 Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)	Results  Analytical Meth Pace Analytica  ND 26.0  58 73  Analytical Meth Pace Analytical Meth Pace Analytical Meth Pace Analytical Meth Pace Analytical ND 96	B3397010 Units Units  nod: EPA 801. I Services - K mg/kg mg/kg % nod: EPA 801. I Services - K mg/kg	Report Limit  5B Preparation Me Cansas City  10.9 10.9 31-152 46-130 5B Preparation Me Cansas City  12.1 63-121	mple s  DF  thod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58	10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 17:33	CAS No. 646-31-1 92-94-4	Qua
Sample: SSW-25 Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)	Results  Analytical Meth Pace Analytical ND 26.0 58 73 Analytical Meth Pace Analytical ND 96 Analytical Meth	B3397010  usted for per Units  nod: EPA 801. I Services - K mg/kg mg/kg % nod: EPA 801. I Services - K mg/kg mg/kg	Report Limit  SB Preparation Me Cansas City  10.9  10.9  31-152  46-130  5B Preparation Me Cansas City  12.1  63-121  OB Preparation Me	mple s  DF  thod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58	10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 17:33	CAS No. 646-31-1 92-94-4	Qua
Sample: SSW-25 Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S) B260B MSV 5035A Low Level	Results  Analytical Meth Pace Analytical ND 26.0 58 73 Analytical Meth Pace Analytical ND 96 Analytical Meth Pace Analytical	B3397010  usted for per Units  nod: EPA 801  I Services - K mg/kg mg/kg % nod: EPA 801  I Services - K mg/kg % nod: EPA 801	Report Limit  5B Preparation Me Cansas City  10.9 10.9 31-152 46-130  5B Preparation Me Cansas City  12.1 63-121  0B Preparation Me Cansas City	mple s  DF  thod: E  1  1  thod: E  1  thod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B	10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 17:33	CAS No. 646-31-1 92-94-4	Qua
Sample: SSW-25 Results reported on a "dry weight Parameters  3015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S) 3260B MSV 5035A Low Level	Results  Analytical Meth Pace Analytical ND 26.0 58 73 Analytical Meth Pace Analytical ND 96 Analytical Meth Pace Analytical ND	B3397010  usted for per Units  nod: EPA 801 I Services - K mg/kg mg/kg % nod: EPA 801 I Services - K mg/kg % nod: EPA 801 I Services - K ug/kg	Report Limit  Report Limit  5B Preparation Me Cansas City  10.9  10.9  31-152  46-130  5B Preparation Me Cansas City  12.1  63-121  0B Preparation Me Cansas City  63-121  63-121	mple s  DF  thod: E  1  1  thod: E  1  thod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B	10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 18:16 10/18/21 18:16	CAS No. 646-31-1 92-94-4 460-00-4	Qua
Sample: SSW-25 Results reported on a "dry weight Parameters  3015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics  FPH-GRO Surrogates 4-Bromofluorobenzene (S) 3260B MSV 5035A Low Level  Benzene Ethylbenzene	Results  Analytical Meth Pace Analytical ND 26.0 58 73 Analytical Meth Pace Analytical ND 96 Analytical Meth Pace Analytical ND ND ND	B3397010  usted for per Units  nod: EPA 801 I Services - K mg/kg mg/kg % nod: EPA 801 I Services - K mg/kg % nod: EPA 826 I Services - K ug/kg ug/kg	Report Limit  Report Limit  5B Preparation Me Cansas City  10.9  10.9  31-152  46-130  5B Preparation Me Cansas City  12.1  63-121  0B Preparation Me Cansas City  63-121  63-121	mple s  DF  thod: E  1  1  thod: E  1  thod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58 PA 5035A/5030B  10/18/21 10:58 10/18/21 10:58	10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 18:16 10/18/21 18:16	CAS No. 646-31-1 92-94-4 71-43-2 100-41-4	Qua
Sample: SSW-25 Results reported on a "dry weight Parameters  3015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics  FPH-GRO Surrogates 4-Bromofluorobenzene (S) 3260B MSV 5035A Low Level  Genzene Ethylbenzene Foluene	Results  Analytical Meth Pace Analytical ND 26.0 58 73 Analytical Meth Pace Analytical ND 96 Analytical Meth Pace Analytical ND ND ND ND	B3397010 Units Units  nod: EPA 801. I Services - K mg/kg mg/kg % nod: EPA 801. I Services - K mg/kg % l Services - K ug/kg ug/kg ug/kg	Report Limit  Report Limit  5B Preparation Me Cansas City  10.9  10.9  31-152  46-130  5B Preparation Me Cansas City  12.1  63-121  0B Preparation Me Cansas City  6.1  6.1  6.1	mple s  DF  thod: E  1  1  thod: E  1  thod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58 PA 5035A/5030B  10/18/21 10:58 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58	10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 18:16 10/18/21 18:16	CAS No.  646-31-1 92-94-4  71-43-2 100-41-4 108-88-3	Qua
Sample: SSW-25 Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260B MSV 5035A Low Level  Benzene Ethylbenzene Toluene Xylene (Total)	Results  Analytical Meth Pace Analytical ND 26.0 58 73 Analytical Meth Pace Analytical ND 96 Analytical Meth Pace Analytical ND ND ND	B3397010  usted for per Units  nod: EPA 801 I Services - K mg/kg mg/kg % nod: EPA 801 I Services - K mg/kg % nod: EPA 826 I Services - K ug/kg ug/kg	Report Limit  Report Limit  5B Preparation Me Cansas City  10.9  10.9  31-152  46-130  5B Preparation Me Cansas City  12.1  63-121  0B Preparation Me Cansas City  63-121  63-121	mple s  DF  thod: E  1  1  thod: E  1  thod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58 PA 5035A/5030B  10/18/21 10:58 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58	10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 18:16 10/18/21 18:16	CAS No.  646-31-1 92-94-4  71-43-2 100-41-4 108-88-3	Qua
Sample: SSW-25 Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)  8260B MSV 5035A Low Level  Benzene Ethylbenzene Toluene Xylene (Total) Surrogates	Results  Analytical Meth Pace Analytical ND 26.0  58 73  Analytical Meth Pace Analytical ND 96  Analytical Meth Pace Analytical ND ND ND ND ND ND ND	B3397010  usted for per Units  nod: EPA 801  I Services - K mg/kg mg/kg %  nod: EPA 801.  I Services - K mg/kg %  nod: EPA 805.  I Services - K ug/kg ug/kg ug/kg ug/kg	Report Limit  SB Preparation Me Cansas City  10.9  10.9  31-152  46-130  5B Preparation Me Cansas City  12.1  63-121  0B Preparation Me Cansas City  6.1  6.1  6.1  18.2	mple s  DF  thod: E  1  1  thod: E  1  thod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58	10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 18:16 10/18/21 18:16 10/18/21 14:54 10/18/21 14:54 10/18/21 14:54	CAS No.  646-31-1 92-94-4  460-00-4  71-43-2 100-41-4 108-88-3 1330-20-7	Qua
Sample: SSW-25 Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)  8260B MSV 5035A Low Level  Benzene Ethylbenzene Toluene Xylene (Total)	Results  Analytical Meth Pace Analytical ND 26.0 58 73 Analytical Meth Pace Analytical ND 96 Analytical Meth Pace Analytical ND ND ND ND	B3397010 Units Units  nod: EPA 801. I Services - K mg/kg mg/kg % nod: EPA 801. I Services - K mg/kg % l Services - K ug/kg ug/kg ug/kg	Report Limit  Report Limit  5B Preparation Me Cansas City  10.9  10.9  31-152  46-130  5B Preparation Me Cansas City  12.1  63-121  0B Preparation Me Cansas City  6.1  6.1  6.1	mple s  DF  thod: E  1  1  thod: E  1  thod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58	10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 17:33 10/18/21 18:16 10/18/21 18:16	CAS No.  646-31-1 92-94-4  460-00-4  71-43-2 100-41-4 108-88-3 1330-20-7	Qua

### **REPORT OF LABORATORY ANALYSIS**



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

Sample: SSW-25	Lab ID: 603	83397010	Collected: 10/13/2	21 11:3	3 Received: 10	/16/21 09:15 IV	fatrix: Solid	
Results reported on a "dry weight	" basis and are adj	usted for p	ercent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2260B MSV 5035A Low Level	Analytical Meth Pace Analytica		60B Preparation Me	ethod: E	PA 5035A/5030B			
Surrogates 4-Bromofluorobenzene (S) 1,2-Dichlorobenzene-d4 (S)	99 98	% %	83-119 80-120	1 1		10/18/21 14:54 10/18/21 14:54		
Percent Moisture	Analytical Meth	nod: ASTM [	02974					
	Pace Analytica	l Services -	Kansas City					
Percent Moisture	10.9	%	0.50	1		10/18/21 10:58		
9056 IC Anions	Analytical Meth Pace Analytica		56 Preparation Metl Kansas City	nod: EF	PA 9056			
Chloride	4020	mg/kg	562	50	10/18/21 11:35	10/19/21 11:32	16887-00-6	
Sample: SSW-26 Results reported on a "dry weight	Lab ID: 603 " basis and are adj		Collected: 10/13/2				latrix: Solid	
Davasatava	Danulta	Llaita	Damant Lineit	DE		A a l a al	CACNE	0
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
		nod: EPA 80	15B Preparation Me		<del>-</del>	Analyzed	CAS No.	Qual
B015B Diesel Range Organics  FPH-DRO (C10-C28)  FPH-ORO (C28-C35)	Analytical Meth	nod: EPA 80	15B Preparation Me		PA 3546	Analyzed  10/18/21 17:41 10/18/21 17:41	CAS No.	Qual
O15B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates	Analytical Meth Pace Analytica ND	nod: EPA 80 Il Services - mg/kg	15B Preparation Me Kansas City 11.1	ethod: E	10/18/21 11:04 10/18/21 11:04	10/18/21 17:41	-	Qual
PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates I-Tetracosane (S)	Analytical Meth Pace Analytica ND 17.5	nod: EPA 80 I Services - mg/kg mg/kg	15B Preparation Me Kansas City 11.1 11.1	ethod: E	10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	10/18/21 17:41 10/18/21 17:41	646-31-1	Qual
PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)	Analytical Meth Pace Analytica ND 17.5 52 68	mod: EPA 80 Il Services - mg/kg mg/kg % % mod: EPA 80	15B Preparation Me Kansas City 11.1 11.1 31-152 46-130	1 1 1 1	10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	10/18/21 17:41 10/18/21 17:41 10/18/21 17:41 10/18/21 17:41	646-31-1	Qual
PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates I-Tetracosane (S) I-Terphenyl (S) Gasoline Range Organics  PH-GRO	Analytical Meth Pace Analytica ND 17.5 52 68 Analytical Meth	mod: EPA 80 Il Services - mg/kg mg/kg % % mod: EPA 80	15B Preparation Me Kansas City 11.1 11.1 31-152 46-130	1 1 1 1	10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B	10/18/21 17:41 10/18/21 17:41 10/18/21 17:41 10/18/21 17:41	646-31-1	Qual
PH-DRO (C10-C28) PH-DRO (C28-C35) FH-ORO (C28-C35) FUTORIAL SURFICIAL SURFIC	Analytical Meth Pace Analytica ND 17.5 52 68 Analytical Meth Pace Analytica	mod: EPA 80 Il Services - mg/kg mg/kg % % mod: EPA 80 Il Services -	15B Preparation Me Kansas City 11.1 11.1 31-152 46-130 15B Preparation Me Kansas City	ethod: E  1 1 1 1 1 ethod: E	10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B	10/18/21 17:41 10/18/21 17:41 10/18/21 17:41 10/18/21 17:41	646-31-1 92-94-4	Qua
GO15B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Gurrogates Tetracosane (S) Terphenyl (S) Gasoline Range Organics  TPH-GRO Gurrogates TPH-GRO Gurrogates TPH-GRO File Terphenyl (S)	Analytical Meth Pace Analytica ND 17.5 52 68 Analytical Meth Pace Analytical ND 95	mod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg %	11.1 11.1 11.1 31-152 46-130 15B Preparation Me Kansas City 12.4 63-121 60B Preparation Me	ethod: E  1 1 1 1 ethod: E	10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 09:58 10/18/21 09:58	10/18/21 17:41 10/18/21 17:41 10/18/21 17:41 10/18/21 17:41 10/18/21 19:03 10/18/21 19:03	646-31-1 92-94-4	Qua
PH-DRO (C10-C28) PH-DRO (C28-C35) FH-ORO (C28-C35) FURDAMENTAL STATEMENT OF THE STATEMENT O	Analytical Meth Pace Analytica ND 17.5 52 68 Analytical Meth Pace Analytical ND 95 Analytical Meth	mod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg %	11.1 11.1 11.1 31-152 46-130 15B Preparation Me Kansas City 12.4 63-121 60B Preparation Me	ethod: E  1 1 1 1 ethod: E	10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B 10/18/21 09:58 10/18/21 09:58	10/18/21 17:41 10/18/21 17:41 10/18/21 17:41 10/18/21 17:41 10/18/21 19:03 10/18/21 19:03	646-31-1 92-94-4 460-00-4	Qua
ionis Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Tetracosane (S) Tetracosane (	Analytical Meth Pace Analytica ND 17.5 52 68 Analytical Meth Pace Analytica ND 95 Analytical Meth Pace Analytical	mod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg %	11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.	ethod: E  1 1 1 1 1 1 1 1 tethod: E	10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B 10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B	10/18/21 17:41 10/18/21 17:41 10/18/21 17:41 10/18/21 17:41 10/18/21 19:03 10/18/21 19:03	646-31-1 92-94-4 460-00-4 71-43-2	Qua
O15B Diesel Range Organics  PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates -Tetracosane (S) -Terphenyl (S) Basoline Range Organics  PH-GRO Surrogates -Bromofluorobenzene (S)  260B MSV 5035A Low Level  Benzene Ethylbenzene	Analytical Meth Pace Analytica ND 17.5 52 68 Analytical Meth Pace Analytica ND 95 Analytical Meth Pace Analytical Meth	mod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg % nod: EPA 82 Il Services - ug/kg	11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.	ethod: E  1 1 1 1 1 1 1 tethod: E	10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B 10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B	10/18/21 17:41 10/18/21 17:41 10/18/21 17:41 10/18/21 17:41 10/18/21 19:03 10/18/21 19:03	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4	Qua
ions Diesel Range Organics  PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates P-Tetracosane (S) P-Terphenyl (S)  Sasoline Range Organics  PH-GRO Surrogates PH-GR	Analytical Meth Pace Analytica  ND 17.5  52 68  Analytical Meth Pace Analytica  ND  95  Analytical Meth Pace Analytical Meth Pace Analytical Meth	mod: EPA 80 Il Services - mg/kg mg/kg % mod: EPA 80 Il Services - mg/kg % mod: EPA 82i Il Services - ug/kg ug/kg	11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.	ethod: E  1 1 1 1 1 1 1 tethod: E  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B 10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58	10/18/21 17:41 10/18/21 17:41 10/18/21 17:41 10/18/21 17:41 10/18/21 19:03 10/18/21 19:03 10/18/21 15:14 10/18/21 15:14	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	Qua
PH-DRO (C10-C28) PH-DRO (C28-C35) FH-ORO (C28-C35) FURDAMENTAL STATEMENT OF THE STATEMENT O	Analytical Meth Pace Analytica ND 17.5 52 68 Analytical Meth Pace Analytica ND 95 Analytical Meth Pace Analytical ND ND ND ND	mod: EPA 80 Il Services - mg/kg mg/kg % mod: EPA 80 Il Services - mg/kg % mod: EPA 82i Il Services - ug/kg ug/kg ug/kg	11.1 11.1 11.1 31-152 46-130 15B Preparation Me Kansas City 12.4 63-121 60B Preparation Me Kansas City 6.2 6.2 6.2	1 1 1 2 2 2 4 1 1 2 2 4 2 4 3 4 4 4 5 4 7 6 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 09:58 10/18/21 09:58 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58	10/18/21 17:41 10/18/21 17:41 10/18/21 17:41 10/18/21 17:41 10/18/21 19:03 10/18/21 19:03 10/18/21 15:14 10/18/21 15:14 10/18/21 15:14	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7	Qua
Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 4-Bromofluorobenzene (S)  Benzene Ethylbenzene Foluene Kylene (Total) Surrogates Foluene-d8 (S) 4-Bromofluorobenzene (S)	Analytical Meth Pace Analytica  ND 17.5  52 68  Analytical Meth Pace Analytical ND  95  Analytical Meth Pace Analytical ND ND ND ND ND ND	mod: EPA 80 Il Services - mg/kg mg/kg % mod: EPA 80 Il Services - mg/kg % mod: EPA 82i Il Services - ug/kg ug/kg ug/kg ug/kg	11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.	ethod: E  1 1 1 1 1 1 1 ethod: E  1 1 1 1 1 1 1 1 1 1 1 1	10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B 10/18/21 09:58 10/18/21 09:58 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58	10/18/21 17:41 10/18/21 17:41 10/18/21 17:41 10/18/21 17:41 10/18/21 19:03 10/18/21 19:03 10/18/21 15:14 10/18/21 15:14 10/18/21 15:14	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7 2037-26-5	Qua

### **REPORT OF LABORATORY ANALYSIS**

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Project:         212C-MD-0209           Pace Project No.:         60383397	99							
Sample: SSW-26	Lab ID: 603	83397011	Collected: 10/13/2	21 11:40	Received: 10	)/16/21 09:15 N	Matrix: Solid	
Results reported on a "dry weight	" basis and are ad	iusted for pe	ercent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Met	hod: ASTM D	2974					
	Pace Analytica	al Services - I	Kansas City					
Percent Moisture	11.1	%	0.50	1		10/18/21 10:58		
9056 IC Anions	•		66 Preparation Meth	nod: EF	PA 9056			
	Pace Analytica	al Services - I	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: 603	83397012	Collected: 10/14/2	21 09:29	9 Received: 10	0/16/21 09:15 N	Matrix: Solid	
Results reported on a "dry weight	" basis and are ad	iusted for pe	ercent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Met	hod: EPA 801	5B Preparation Me	thod: E	PA 3546			
	Pace Analytica	al Services - I	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	50	0/	24.452	4	40/40/04 44-04	40/40/04 47:40	040 04 4	
n-Tetracosane (S) p-Terphenyl (S)	59 78	% %	31-152 46-130	1 1		10/18/21 17:49 10/18/21 17:49		
p-respirency (3)	70	/0	40-130	'	10/10/21 11:04	10/10/21 17.49	92-94-4	
Gasoline Range Organics			5B Preparation Me	thod: E	PA 5035A/5030B	<b>,</b>		
	Pace Analytica	ii Services - r	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 Met	hod: EPA 826	60B Preparation Me	thod: F	:PA 50354/5030B			
6200B M3V 3033A LOW Level	Pace Analytica			illiou. L	.i A 3033A/3030B	•		
D	-				40/40/04 40 50	40/40/04 45 05	74 40 0	
Benzene	ND	ug/kg	5.3	1		10/18/21 15:35 10/18/21 15:35	-	
Ethylbenzene Toluene	ND ND	ug/kg	5.3 5.3	1 1		10/18/21 15:35		
Xylene (Total)	ND ND	ug/kg ug/kg	15.8	1		10/18/21 15:35		
Surrogates	ND	ug/kg	15.0	'	10/10/21 10:30	10/10/21 10:00	1000-20-1	
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 Met	hod: ASTM D	2974					
	Pace Analytica							
Percent Moisture	5.9	%	0.50	1		10/18/21 10:58		

### **REPORT OF LABORATORY ANALYSIS**

104

10

Analytical Method: EPA 9056 Preparation Method: EPA 9056

Pace Analytical Services - Kansas City

mg/kg

126

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9056 IC Anions

Date: 11/01/2021 02:48 PM

Chloride



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

TPH-ORO (C28-C35)	Analyzed  10/18/21 18:13 10/18/21 18:13 10/18/21 18:13 10/18/21 18:13		Qual
Pace Analytical Services - Kansas City	10/18/21 18:13 10/18/21 18:13 10/18/21 18:13		
ND mg/kg	10/18/21 18:13 10/18/21 18:13 10/18/21 18:13		
14.4 mg/kg	10/18/21 18:13 10/18/21 18:13 10/18/21 18:13		
TPH-ORO (C28-C35)	10/18/21 18:13 10/18/21 18:13		
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 Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City  TPH-GRO ND mg/kg 9.7 1 10/18/21 09:58 Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City  Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City  Analytical Services - Kansas City  Analytical Services - Kansas City  Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City  Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City  Analytical Method: BPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Method: BPA 9056 Preparation Method: EPA 5035A/5030B Pace Analytical Method: ASTM D2974 Pace Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City  Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City  Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City  Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City  Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City  Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City  Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City  Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services	10/18/21 18:13		
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City  ND mg/kg 9.7 1 10/18/21 09:58 Surrogates  Beromofluorobenzene (S) 95 % 63-121 1 10/18/21 09:58 Pace Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City  Senzene ND ug/kg 4.8 1 10/18/21 10:58 Pace Analytical Services - Kansas City  ND ug/kg 4.8 1 10/18/21 10:58 Pace (Total) ND ug/kg 4.8 1 10/18/21 10:58 Pace (Total) ND ug/kg 14.5 1 10/18/21 10:58 Percent Moisture  Percent Moisture Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City  Percent Moisture Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City  Chloride 301 mg/kg 103 10 10/18/21 11:35 Pace Analytical Services - Kansas City  Chloride 301 mg/kg 103 10 10/18/21 11:35 Pace Analytical Services - Kansas City  Chloride 301 mg/kg 103 10 10/18/21 11:35 Pace Analytical Services - Kansas City  Chloride 301 mg/kg 103 10 10/18/21 11:35 Pace Analytical Services - Kansas City  Chloride 301 mg/kg 103 10 10/18/21 11:35 Pace Analytical Services - Kansas City  Chloride 301 mg/kg 103 10 10/18/21 11:35 Pace Analytical Services - Kansas City  Chloride 301 mg/kg 103 10 10/18/21 11:35 Pace Analytical Services - Kansas City  Chloride 301 mg/kg 103 10 10/18/21 11:35 Pace Analytical Services - Kansas City  Chloride 301 mg/kg 103 10 10/18/21 11:35 Pace Analytical Services - Kansas City  Chloride 301 mg/kg 103 10 10/18/21 11:35 Pace Analytical Services - Kansas City  Chloride 301 mg/kg 103 10 10/18/21 11:35 Pace Analytical Services - Kansas City  Chloride 301 mg/kg 103 10 10/18/21 11:35 Pace Analytical Services - Kansas City			
Pace Analytical Services - Kansas City  PH-GRO  ND mg/kg 9.7 1 10/18/21 09:58  Surrogates -Bromofluorobenzene (S) 95 % 63-121 1 10/18/21 09:58  Reference Services - Kansas City  Pace Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City  Renzene ND ug/kg 4.8 1 10/18/21 10:58  Rehylbenzene ND ug/kg 8.0-120 1 10/18/21 10:58  Rehylbenzene ND ug/		92-94-4	
### Surrogates  -Bromofluorobenzene (S)	j.		
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City  Benzene Benze	10/18/21 19:33		
Pace Analytical Services - Kansas City	10/18/21 19:33	460-00-4	
ND ug/kg	}		
ND ug/kg	10/18/21 15:55	71-43-2	
ND ug/kg 4.8 1 10/18/21 10:58 (kylene (Total)) ND ug/kg 14.5 1 10/18/21 10:58 (kylene (Total)) ND ug/kg 10/18/21 10:58 (kylene (Tot	10/18/21 15:55		
Soluene-d8 (S) 108 % 80-120 1 10/18/21 10:58 -Bromofluorobenzene (S) 102 % 83-119 1 10/18/21 10:58 -Q-Dichlorobenzene-d4 (S) 98 % 80-120 1 10/18/21 10:58 -Percent Moisture Analytical Method: ASTM D2974 - Pace Analytical Services - Kansas City - Percent Moisture 4.7 % 0.50 1 - Percent Moisture Analytical Method: EPA 9056 Preparation Method: EPA 9056 - Pace Analytical Services - Kansas City - Pace Analytical Services - Kansas City - Chloride 301 mg/kg 103 10 10/18/21 11:35 - Chample: SSW-26 (6') Lab ID: 60383397014 Collected: 10/14/21 09:45 Received: 1 - Percent Moisture Analytical Services - Kansas City - Chloride Analytical Services - Kansas C	10/18/21 15:55	108-88-3	
-Bromofluorobenzene (S) 102 % 83-119 1 10/18/21 10:58 ,2-Dichlorobenzene-d4 (S) 98 % 80-120 1 10/18/21 10:58  Percent Moisture Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City  Percent Moisture 4.7 % 0.50 1  O56 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  Cample: SSW-26 (6') Lab ID: 60383397014 Collected: 10/14/21 09:45 Received: 1  Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilustration of the sample size and sample siz	10/18/21 15:55	1330-20-7	
Percent Moisture  Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City  Percent Moisture  4.7 % 0.50 1  Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City  Chloride  301 mg/kg 103 10 10/18/21 11:35  Cample: SSW-26 (6')  Lab ID: 60383397014 Collected: 10/14/21 09:45 Received: 1  Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any diluted to the control of the c	10/18/21 15:55		
Percent Moisture  Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City  Percent Moisture  4.7 % 0.50 1  Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City  Chloride  301 mg/kg 103 10 10/18/21 11:35  Gample: SSW-26 (6') Lab ID: 60383397014 Collected: 10/14/21 09:45 Received: 1  Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilu			
Pace Analytical Services - Kansas City  Percent Moisture  4.7 % 0.50 1  Post 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  Cample: SSW-26 (6')  Lab ID: 60383397014 Collected: 10/14/21 09:45 Received: 1  Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilustry.	10/18/21 15:55	2199-69-1	
Percent Moisture  4.7 % 0.50 1  Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City  Chloride  301 mg/kg 103 10 10/18/21 11:35  Cample: SSW-26 (6') Lab ID: 60383397014 Collected: 10/14/21 09:45 Received: 1  Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any diluteration.			
Pace Analytical Services - Kansas City  Chloride 301 mg/kg 103 10 10/18/21 11:35  Sample: SSW-26 (6') Lab ID: 60383397014 Collected: 10/14/21 09:45 Received: 1  Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilu	10/18/21 10:58		
Chloride 301 mg/kg 103 10 10/18/21 11:35  Gample: SSW-26 (6') Lab ID: 60383397014 Collected: 10/14/21 09:45 Received: 1  Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilu			
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilu	10/18/21 23:13	16887-00-6	
		Matrix: Solid	
	Analyzed	CAS No.	Qua
Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City			
,	10/10/04 10:04		
	10/18/21 18:21		
· ,	10/18/21 18:21		
<b>Surrogates</b> n-Tetracosane (S) 61 % 31-152 1 10/18/21 11:04	10/18/21 18:21	646-31-1	
	10/18/21 18:21		

### **REPORT OF LABORATORY ANALYSIS**

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

Describe assessment and the second	Lab ID: 603	83397014	Collected: 10/14/2	1 09:4	5 Received: 10	/16/21 09:15 N	latrix: Solid	
Results reported on a "dry weight"	" basis and are adj	usted for per	rcent moisture, sa	mple s	ize and any dilut	ions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
Gasoline Range Organics	Analytical Meth		5B Preparation Me ansas City	thod: E	PA 5035A/5030B			
TPH-GRO <b>Surrogates</b>	ND	mg/kg	10.6	1	10/18/21 09:58	10/18/21 19:48		
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 Meth Pace Analytica		0B Preparation Me ansas City	thod: E	PA 5035A/5030B			
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) <b>Surrogates</b>	ND	ug/kg	15.8	1	10/18/21 10:58	10/18/21 16:15	1330-20-7	
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 Meth Pace Analytica							
Percent Moisture	4.3	%	0.50	1		10/18/21 10:58		
	Analytical Meth	od: EPA 905	6 Preparation Meth	od: FF	PA 9056			
9056 IC Anions	Pace Analytica			10a. Li				
9056 IC Anions Chloride	-			10		10/18/21 23:26	16887-00-6	
Chloride  Sample: NSW-9 (3')  Results reported on a "dry weight"  Parameters	Pace Analytica ND Lab ID: 603i " basis and are adj Results	I Services - K mg/kg 33397015 usted for per Units	ansas City 102 Collected: 10/14/2	10 1 10:00 <b>mple s</b> DF	10/18/21 11:35  Received: 10  ize and any dilute  Prepared	/16/21 09:15 M	16887-00-6 Matrix: Solid CAS No.	Qua
Chloride Sample: NSW-9 (3') Results reported on a "dry weight"	Pace Analytica ND Lab ID: 603i " basis and are adj Results	mg/kg  B3397015  Units  Hod: EPA 8018	Collected: 10/14/2 rcent moisture, sa Report Limit  Beginning	10 1 10:00 <b>mple s</b> DF	10/18/21 11:35  Received: 10  ize and any dilute  Prepared	/16/21 09:15 N	fatrix: Solid	Qua
Chloride  Sample: NSW-9 (3')  Results reported on a "dry weight"  Parameters  B015B Diesel Range Organics	Pace Analytica ND  Lab ID: 603: " basis and are adj  Results  Analytical Meth	mg/kg  83397015  usted for per Units  nod: EPA 801:	Collected: 10/14/2 rcent moisture, sa Report Limit  Beginning	10 1 10:00 <b>mple s</b> DF	10/18/21 11:35  Received: 10  ize and any dilute  Prepared	/16/21 09:15 M i <b>ions.</b> Analyzed	fatrix: Solid	Qua
Chloride  Sample: NSW-9 (3')  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)	Pace Analytica ND  Lab ID: 603i " basis and are adj Results  Analytical Meth Pace Analytica	mg/kg  B3397015  Units  Hod: EPA 8018	Collected: 10/14/2 rcent moisture, sa Report Limit 5B Preparation Me fansas City	10:00 mple s  DF  thod: E	10/18/21 11:35  O Received: 10  size and any dilute  Prepared  EPA 3546	/16/21 09:15 M ions. Analyzed 10/18/21 18:29	fatrix: Solid	Qua
Chloride  Sample: NSW-9 (3')  Results reported on a "dry weight"  Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)  Surrogates	Pace Analytica ND  Lab ID: 603i " basis and are adj Results  Analytical Meth Pace Analytica	mg/kg  83397015  usted for per Units  nod: EPA 8018 I Services - K mg/kg	Collected: 10/14/2 rcent moisture, sa Report Limit 5B Preparation Me tansas City 10.4	10 1 10:00 mple s  DF thod: E	10/18/21 11:35  O Received: 10  ize and any dilute  Prepared  PA 3546  10/18/21 11:04  10/18/21 11:04	/16/21 09:15 M ions. Analyzed 10/18/21 18:29	datrix: Solid  CAS No.	Qua
Chloride  Sample: NSW-9 (3')  Results reported on a "dry weight"  Parameters  B015B Diesel Range Organics  IPH-DRO (C10-C28) IPH-ORO (C28-C35)  Surrogates n-Tetracosane (S)	Pace Analytica ND  Lab ID: 603i " basis and are adj Results  Analytical Meth Pace Analytica ND 17.6	I Services - K mg/kg B3397015 usted for per Units nod: EPA 8019 I Services - K mg/kg mg/kg	Collected: 10/14/2 rcent moisture, sa Report Limit 5B Preparation Me tansas City 10.4 10.4	10 1 10:00 mple s  DF  thod: E	10/18/21 11:35  D Received: 10  size and any dilute Prepared  EPA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	/16/21 09:15 M ions. Analyzed 10/18/21 18:29 10/18/21 18:29	CAS No.	Qua
Chloride  Sample: NSW-9 (3')  Results reported on a "dry weight"  Parameters	Pace Analytica ND  Lab ID: 603: " basis and are adj Results  Analytical Meth Pace Analytica ND 17.6 63 81	B3397015  usted for per Units  nod: EPA 8018 I Services - K mg/kg mg/kg % hod: EPA 8018	Collected: 10/14/2 rcent moisture, sa Report Limit 5B Preparation Me ansas City 10.4 10.4 31-152 46-130 5B Preparation Me	10 10:00 mple s  DF  thod: E	10/18/21 11:35  D Received: 10  size and any dilute  Prepared  EPA 3546  10/18/21 11:04  10/18/21 11:04  10/18/21 11:04	/16/21 09:15 M ions. Analyzed  10/18/21 18:29 10/18/21 18:29 10/18/21 18:29	CAS No.	Qua
Chloride  Sample: NSW-9 (3')  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35)  Surrogates n-Tetracosane (S) p-Terphenyl (S)	Pace Analytical ND  Lab ID: 603: " basis and are adj Results  Analytical Meth Pace Analytical ND 17.6 63 81  Analytical Meth	B3397015  usted for per Units  nod: EPA 8018 I Services - K mg/kg mg/kg % hod: EPA 8018	Collected: 10/14/2 rcent moisture, sa Report Limit 5B Preparation Me ansas City 10.4 10.4 31-152 46-130 5B Preparation Me	10 10:00 mple s  DF  thod: E	10/18/21 11:35  O Received: 10  ize and any dilute Prepared  EPA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	/16/21 09:15 M ions. Analyzed  10/18/21 18:29 10/18/21 18:29 10/18/21 18:29	CAS No.	Qua

# **REPORT OF LABORATORY ANALYSIS**

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

Sample: NSW-9 (3')	Lab ID: 603	83397015	Collected: 10/14/2	1 10:00	Received: 10	/16/21 09:15 M	latrix: Solid	
Results reported on a "dry weight	t" basis and are adj	iusted for per	rcent moisture, sa	mple s	ize and any dilut	ions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260B MSV 5035A Low Level	Analytical Meth	nod: EPA 8260	0B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica	l Services - K	ansas City					
Benzene	ND	ug/kg	5.0	1	10/18/21 10:58	10/18/21 16:35	71_//3_2	
Ethylbenzene	ND ND	ug/kg ug/kg	5.0	1		10/18/21 16:35		
Toluene	ND ND	ug/kg ug/kg	5.0	1		10/18/21 16:35		
Xylene (Total)	ND ND	ug/kg ug/kg	15.1	1		10/18/21 16:35		
Surrogates	ND	ug/kg	13.1	'	10/10/21 10.30	10/10/21 10.55	1330-20-7	
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 16:35		
,2-Dichlorobenzene-d4 (S)	99	%	80-120	1		10/18/21 16:35		
Percent Moisture	Analytical Meth	nod: ASTM D2	2974					
Crocin moisture	Pace Analytica							
Percent Moisture	6.0	%	0.50	1		10/18/21 10:58		
9056 IC Anions	Analytical Moth	and: EDA 0056	6 Preparation Meth	od: EE	ν ουξε			
1030 IC AIIIOIIS	Pace Analytica			iou. Li	A 9030			
Chloride	136	mg/kg	104	10	40/40/04 44 05	10/18/21 23:40	40007.00.0	
Sample: SSW-20 (8')	Lab ID: 603	83397016	Collected: 10/15/2	1 08:1	5 Received: 10	/16/21 09:15 M	latrix: Solid	
. ,							latrix: Solid	
. ,							latrix: Solid	Qua
Results reported on a "dry weight Parameters	t" basis and are adj Results	usted for per Units	Report Limit	mple s	Prepared	ions.		Qua
Results reported on a "dry weight Parameters	t" basis and are adj Results	Units  Hod: EPA 8015	Report Limit  The Preparation Me	mple s	Prepared	ions.		Qua
3015B Diesel Range Organics	Results  Analytical Methodology Pace Analytica	Units  Hod: EPA 8018  Services - K	Report Limit  Report Limit  5B Preparation Me  Sansas City	DF thod: E	Prepared PA 3546	Analyzed		Qua
Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28)	Results  Analytical Meth Pace Analytica 323	Units  Units  Hod: EPA 8018  Services - K  mg/kg	Report Limit  SB Preparation Me  Sansas City  99.8	mple s  DF  thod: E	Prepared PA 3546 10/18/21 11:04	Analyzed 10/18/21 18:38		Qua
Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35)	Results  Analytical Methodology Pace Analytica	Units  Hod: EPA 8018  Services - K	Report Limit  Report Limit  5B Preparation Me  Sansas City	DF thod: E	Prepared PA 3546 10/18/21 11:04	Analyzed		Qua
Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35)  Surrogates	Results  Analytical Meth Pace Analytica  323 490	Units  Hod: EPA 8018  I Services - K  mg/kg  mg/kg	Report Limit  SB Preparation Me  Cansas City  99.8  99.8	mple s DF thod: E	Prepared PA 3546 10/18/21 11:04 10/18/21 11:04	Analyzed  10/18/21 18:38 10/18/21 18:38	CAS No.	
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S)	Results  Analytical Meth Pace Analytica  323 490	Units  Units  nod: EPA 801!  Services - K  mg/kg  mg/kg  %	Report Limit  5B Preparation Me  Sansas City  99.8  99.8  31-152	mple s DF thod: E	Prepared  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	Analyzed  10/18/21 18:38 10/18/21 18:38 10/18/21 18:38	CAS No.	S4
Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)	Analytical Meth Pace Analytica  323 490  0 0	Units  Units  Hod: EPA 8019  Il Services - K  mg/kg  mg/kg  %  %	Report Limit  SB Preparation Me Cansas City  99.8 99.8 31-152 46-130	mple s  DF  thod: E	Prepared  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	Analyzed  10/18/21 18:38 10/18/21 18:38	CAS No.	
Parameters  3015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates 1-Tetracosane (S) 1-Terphenyl (S)	Analytical Metro  Analytical Metro Pace Analytica  323 490  0 0  Analytical Metro	units  Units  nod: EPA 8018  Il Services - K  mg/kg  mg/kg  %  %  nod: EPA 8018	Report Limit  Report Limit  5B Preparation Me  Sansas City  99.8  99.8  31-152  46-130  5B Preparation Me	mple s  DF  thod: E	Prepared  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	Analyzed  10/18/21 18:38 10/18/21 18:38 10/18/21 18:38	CAS No.	S4
Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)	Analytical Meth Pace Analytica  323 490  0 0	units  Units  nod: EPA 8018  Il Services - K  mg/kg  mg/kg  %  %  nod: EPA 8018	Report Limit  Report Limit  5B Preparation Me  Sansas City  99.8  99.8  31-152  46-130  5B Preparation Me	mple s  DF  thod: E	Prepared  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	Analyzed  10/18/21 18:38 10/18/21 18:38 10/18/21 18:38	CAS No.	S4
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-DRO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics	Analytical Methodology  Analytical Methodology  Analytical Methodology  323  490  0  0  Analytical Methodology  Analytical Methodology	units  units  nod: EPA 8019  Services - K  mg/kg  mg/kg  %  nod: EPA 8019  il Services - K	Report Limit  5B Preparation Me Cansas City  99.8  99.8  31-152  46-130  5B Preparation Me Cansas City	mple s DF thod: E 10 10 10 10 thod: E	Prepared  PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	Analyzed  10/18/21 18:38 10/18/21 18:38 10/18/21 18:38 10/18/21 18:38	CAS No.	S4
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO	Analytical Methodology  Analytical Methodology  Analytical Methodology  323  490  0  0  Analytical Methodology  Analytical Methodology	units  Units  nod: EPA 8018  Il Services - K  mg/kg  mg/kg  %  %  nod: EPA 8018	Report Limit  Report Limit  5B Preparation Me  Sansas City  99.8  99.8  31-152  46-130  5B Preparation Me	mple s DF thod: E 10 10 10 10 thod: E	Prepared  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	Analyzed  10/18/21 18:38 10/18/21 18:38 10/18/21 18:38 10/18/21 18:38	CAS No.	S4
Parameters  Parameters  Parameters  Parameters  PH-DRO (C10-C28) PH-ORO (C28-C35) PH-ORO (C28-C35) P-Tetracosane (S) P-Terphenyl (S)  Pasoline Range Organics  PH-GRO  Surrogates	Analytical Methodology  Analytical Methodology  Analytical Methodology  323  490  0  0  Analytical Methodology  Analytical Methodology	units  units  nod: EPA 8019  Services - K  mg/kg  mg/kg  %  nod: EPA 8019  il Services - K	Report Limit  5B Preparation Me Cansas City  99.8  99.8  31-152  46-130  5B Preparation Me Cansas City	mple s DF thod: E 10 10 10 10 thod: E	Prepared  PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 09:58	Analyzed  10/18/21 18:38 10/18/21 18:38 10/18/21 18:38 10/18/21 18:38	CAS No. 646-31-1 92-94-4	S4
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates FTEtracosane (S) FTetracosane (S) FTetracosane (S) FTETROSANCE F	Analytical Methodology  Analytical Methodology  Analytical Methodology  490  0 0  Analytical Methodology  Pace Analytical Methodology  ND  96	units  units  nod: EPA 8019  Il Services - K  mg/kg  mg/kg  %  nod: EPA 8019  Il Services - K  mg/kg	Report Limit  SB Preparation Mediansas City  99.8 99.8 31-152 46-130  SB Preparation Mediansas City  10.6	mple s  DF  thod: E  10 10 10 thod: E	Prepared  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 109:58	10/18/21 18:38 10/18/21 18:38 10/18/21 18:38 10/18/21 18:38 10/18/21 18:38	CAS No. 646-31-1 92-94-4	S4
Results reported on a "dry weight Parameters  B015B Diesel Range Organics  IPH-DRO (C10-C28) IPH-ORO (C28-C35) Surrogates In-Tetracosane (S) In-Te	Analytical Methodology  Analytical Methodology  Analytical Methodology  490  0 0  Analytical Methodology  Pace Analytical Methodology  ND  96	units  units  nod: EPA 8019  Il Services - K  mg/kg  mg/kg  %  nod: EPA 8019  Il Services - K  mg/kg  mg/kg	Report Limit  Report Limit  5B Preparation Me  Sansas City  99.8  99.8  31-152  46-130  5B Preparation Me  Sansas City  10.6  63-121  OB Preparation Me	mple s  DF  thod: E  10 10 10 thod: E	Prepared  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 109:58	10/18/21 18:38 10/18/21 18:38 10/18/21 18:38 10/18/21 18:38 10/18/21 18:38	CAS No. 646-31-1 92-94-4	S4
Parameters  Bo15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 4-Bromofluorobenzene (S)  B260B MSV 5035A Low Level	Results  Analytical Meth Pace Analytical  0 0 Analytical Meth Pace Analytical ND 96 Analytical Meth Pace Analytical	units  units  units  nod: EPA 8018  Services - K  mg/kg  mg/kg  %  nod: EPA 8018  Services - K  mg/kg  mg/kg  %  nod: EPA 8018  Services - K  mg/kg	Report Limit  Report Limit  5B Preparation Me  Cansas City  99.8  99.8  31-152  46-130  5B Preparation Me  Cansas City  10.6  63-121  0B Preparation Me  Cansas City	mple s DF thod: E 10 10 10 thod: E 1 1 thod: E	Prepared  Prepared  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B	10/18/21 18:38 10/18/21 18:38 10/18/21 18:38 10/18/21 18:38 10/18/21 18:38 10/18/21 21:32	CAS No. 646-31-1 92-94-4	S4
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates h-Tetracosane (S) b-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates h-Bromofluorobenzene (S)  8260B MSV 5035A Low Level	Analytical Meth Pace Analytical ND	units  Units  Lod: EPA 8018  Services - K  mg/kg  mg/kg  %  Lod: EPA 8018  Services - K  mg/kg  mod: EPA 8018  Il Services - K  mg/kg	Report Limit  Report Limit  SB Preparation Me  Cansas City  99.8  99.8  31-152  46-130  SB Preparation Me  Cansas City  10.6  63-121  OB Preparation Me  Cansas City  5.3	mple s  DF  thod: E  10 10 10 thod: E  1 thod: E	Prepared Prepared Prepared PRA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 10:58  10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B  10/18/21 10:58	10/18/21 18:38 10/18/21 18:38 10/18/21 18:38 10/18/21 18:38 10/18/21 18:32 10/18/21 21:32 10/18/21 21:32	CAS No. 646-31-1 92-94-4 460-00-4	S4
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates -Tetracosane (S) -Terphenyl (S) Gasoline Range Organics  FPH-GRO Surrogates -Bromofluorobenzene (S) 8260B MSV 5035A Low Level Genzene Ethylbenzene	Analytical Meth Pace Analytical ND ND	units  un	Report Limit  Report Limit  5B Preparation Me  Sansas City  99.8  99.8  31-152  46-130  5B Preparation Me  Sansas City  10.6  63-121  0B Preparation Me  Sansas City  5.3  5.3	mple s DF thod: E 10 10 10 10 thod: E 1 1 thod: E	PRA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 10:58 10/18/21 09:58 PA 5035A/5030B  10/18/21 10:58 10/18/21 10:58 10/18/21 10:58	10/18/21 18:38 10/18/21 18:38 10/18/21 18:38 10/18/21 18:38 10/18/21 18:32 10/18/21 21:32 10/18/21 16:54 10/18/21 16:54	CAS No.  646-31-1 92-94-4  460-00-4  71-43-2 100-41-4	S4
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates FTEtracosane (S) FTETPhenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates FPH-GRO FINE Surrogates FPH-GRO FINE FINE FINE FINE FINE FINE FINE FINE	Results  Analytical Meth Pace Analytical  490  Analytical Meth Pace Analytical  ND  96  Analytical Meth Pace Analytical  ND  ND  ND  ND  ND	units  un	Report Limit  Report Limit  5B Preparation Me  Sansas City  99.8  99.8  31-152  46-130  5B Preparation Me  Sansas City  10.6  63-121  0B Preparation Me  Sansas City  5.3  5.3  5.3	mple s  DF  thod: E  10 10 10 thod: E  1 thod: E	Prepared  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58	10/18/21 18:38 10/18/21 18:38 10/18/21 18:38 10/18/21 18:38 10/18/21 18:38 10/18/21 21:32 10/18/21 21:32	CAS No.  646-31-1 92-94-4  71-43-2 100-41-4 108-88-3	S4
Results reported on a "dry weight Parameters	Analytical Meth Pace Analytical ND ND	units  un	Report Limit  Report Limit  5B Preparation Me  Sansas City  99.8  99.8  31-152  46-130  5B Preparation Me  Sansas City  10.6  63-121  0B Preparation Me  Sansas City  5.3  5.3	mple s DF thod: E 10 10 10 10 thod: E 1 1 thod: E	Prepared  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58	10/18/21 18:38 10/18/21 18:38 10/18/21 18:38 10/18/21 18:38 10/18/21 18:32 10/18/21 21:32 10/18/21 16:54 10/18/21 16:54	CAS No.  646-31-1 92-94-4  71-43-2 100-41-4 108-88-3	S4

# **REPORT OF LABORATORY ANALYSIS**

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

Sample: SSW-20 (8')	Lab ID: 603	83397016	Collected: 10/15/2	21 08:15	Received: 10	)/16/21 09:15 N	latrix: Solid	
Results reported on a "dry weight	" basis and are adj	usted for pe	rcent moisture, sa	imple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
260B MSV 5035A Low Level	Analytical Meth	nod: EPA 826	0B Preparation Me	ethod: E	PA 5035A/5030B			
	Pace Analytica	l Services - K	Cansas City					
Surrogates								
I-Bromofluorobenzene (S)	98	%	83-119	1		10/18/21 16:54		
,2-Dichlorobenzene-d4 (S)	97	%	80-120	1	10/18/21 10:58	10/18/21 16:54	2199-69-1	
Percent Moisture	Analytical Meth	nod: ASTM D2	2974					
	Pace Analytica	l Services - K	Cansas City					
Percent Moisture	4.2	%	0.50	1		10/18/21 10:59		
0056 IC Anions	Analytical Meth	nod: EPA 905	6 Preparation Metl	hod: EP	A 9056			
	Pace Analytica							
Chloride	ND	mg/kg	104	10	10/18/21 11:35	10/19/21 00:20	16887-00-6	
Sillondo	115	g/Ng		10	10/10/21 11:00	10/10/21 00:20	10007 00 0	
**************************************	1 -h ID- 000	00007047	Callanta de 40/45/6	24.00.00	Danisal 40	V/4.C/04.00-45. N	lateius Caliel	
Sample: SSW-21 (8') Results reported on a "dry weight	Lab ID: 603 " basis and are adi		Collected: 10/15/2				iatrix. Solid	
	_	•	•	•	•			_
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
			<u> </u>		<u> </u>	Analyzed	CAS No.	- Qua
		nod: EPA 801	5B Preparation Me		<u> </u>	Analyzed	CAS No.	_ Qua
3015B Diesel Range Organics	Analytical Meth	nod: EPA 801: I Services - K	5B Preparation Me (ansas City	ethod: E	PA 3546		CAS No.	Qua
3015B Diesel Range Organics	Analytical Meth	nod: EPA 801	5B Preparation Me		PA 3546	Analyzed  10/18/21 18:46 10/18/21 18:46	CAS No.	- Qua
RO15B Diesel Range Organics  FPH-DRO (C10-C28)  FPH-ORO (C28-C35)	Analytical Meth Pace Analytica 259	nod: EPA 801: Il Services - K mg/kg	5B Preparation Me Cansas City 98.6	ethod: E	PA 3546	10/18/21 18:46	CAS No.	Qua
PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates I-Tetracosane (S)	Analytical Mether Pace Analytica 259 466	nod: EPA 801: I Services - K mg/kg mg/kg %	5B Preparation Me cansas City 98.6 98.6 31-152	10 10 10	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	10/18/21 18:46 10/18/21 18:46 10/18/21 18:46	646-31-1	S4
FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates 1-Tetracosane (S)	Analytical Mether Pace Analytica 259 466	nod: EPA 801: Il Services - K mg/kg mg/kg	5B Preparation Me cansas City 98.6 98.6	2thod: E 10 10	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	10/18/21 18:46 10/18/21 18:46	646-31-1	
GO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35)  Surrogates  n-Tetracosane (S)  p-Terphenyl (S)	Analytical Mether Pace Analytica 259 466 0	mod: EPA 801: Il Services - K mg/kg mg/kg % %	5B Preparation Me cansas City 98.6 98.6 31-152	10 10 10 10	10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	10/18/21 18:46 10/18/21 18:46 10/18/21 18:46 10/18/21 18:46	646-31-1	S4
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics	Analytical Mether Pace Analytica 259 466 0	mod: EPA 801: Il Services - K mg/kg mg/kg % % mod: EPA 801:	5B Preparation Me (ansas City 98.6 98.6 31-152 46-130 5B Preparation Me	10 10 10 10	10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04	10/18/21 18:46 10/18/21 18:46 10/18/21 18:46 10/18/21 18:46	646-31-1	S4
B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) n-Terphenyl (S)  Gasoline Range Organics	Analytical Methodology Pace Analytica 259 466 0 0 Analytical Methodology	nod: EPA 801: Il Services - K mg/kg mg/kg % % nod: EPA 801:	5B Preparation Me Sansas City 98.6 98.6 31-152 46-130 5B Preparation Me Sansas City	10 10 10 10 10 ethod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B	10/18/21 18:46 10/18/21 18:46 10/18/21 18:46 10/18/21 18:46	646-31-1	S4
FPH-DRO (C10-C28) FPH-DRO (C28-C35) FPH-ORO (C28-C35) FURDER (S) FOR THE TRANSPORT (S) F	Analytical Methodology Pace Analytica 259 466 0 0 Analytical Methodology	mod: EPA 801: Il Services - K mg/kg mg/kg % % mod: EPA 801:	5B Preparation Me (ansas City 98.6 98.6 31-152 46-130 5B Preparation Me	10 10 10 10	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B	10/18/21 18:46 10/18/21 18:46 10/18/21 18:46 10/18/21 18:46	646-31-1	S4
FPH-GRO  Gonomics  FPH-DRO (C10-C28)  FPH-ORO (C28-C35)  Gurrogates  -Tetracosane (S)  -Terphenyl (S)  Gasoline Range Organics  FPH-GRO  Gurrogates	Analytical Methodology Pace Analytica 259 466 0 0 Analytical Methodology	nod: EPA 801: Il Services - K mg/kg mg/kg % % nod: EPA 801:	5B Preparation Me Sansas City 98.6 98.6 31-152 46-130 5B Preparation Me Sansas City	10 10 10 10 10 ethod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58	10/18/21 18:46 10/18/21 18:46 10/18/21 18:46 10/18/21 18:46	646-31-1 92-94-4	S4
RO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics  FPH-GRO Surrogates I-Bromofluorobenzene (S)	Analytical Meth Pace Analytica  259 466 0 0 Analytical Meth Pace Analytical ND 98	mod: EPA 801: Il Services - K mg/kg mg/kg % nod: EPA 801: Il Services - K mg/kg %	98.6 98.6 98.6 31-152 46-130 5B Preparation Me (ansas City 11.0	10 10 10 10 10 ethod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58 10/18/21 09:58	10/18/21 18:46 10/18/21 18:46 10/18/21 18:46 10/18/21 18:46 10/18/21 21:47 10/18/21 21:47	646-31-1 92-94-4	S4
RO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics  FPH-GRO Surrogates I-Bromofluorobenzene (S)	Analytical Meth Pace Analytica  259 466 0 0 Analytical Meth Pace Analytical ND 98	mod: EPA 801: If Services - K mg/kg mg/kg % hod: EPA 801: If Services - K mg/kg % hod: EPA 826:	5B Preparation Me (ansas City 98.6 98.6 31-152 46-130 5B Preparation Me (ansas City 11.0 63-121	10 10 10 10 10 ethod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58 10/18/21 09:58	10/18/21 18:46 10/18/21 18:46 10/18/21 18:46 10/18/21 18:46 10/18/21 21:47 10/18/21 21:47	646-31-1 92-94-4	S4
GO15B Diesel Range Organics  GPH-DRO (C10-C28) GPH-ORO (C28-C35) Gurrogates General Strates Ge	Analytical Mether Pace Analytical Methere Analytical Methere Pace Analytical Methere Mether Meth	mod: EPA 801: If Services - K mg/kg mg/kg % hod: EPA 801: If Services - K mg/kg % hod: EPA 826: If Services - K	5B Preparation Me (ansas City 98.6 98.6 31-152 46-130 5B Preparation Me (ansas City 11.0 63-121 0B Preparation Me (ansas City	10 10 10 10 10 ethod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B 10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B	10/18/21 18:46 10/18/21 18:46 10/18/21 18:46 10/18/21 18:46 10/18/21 21:47 10/18/21 21:47	646-31-1 92-94-4 460-00-4	S4
3015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics  TPH-GRO Surrogates 1-Bromofluorobenzene (S) 3260B MSV 5035A Low Level	Analytical Mether Pace Analytical Methere Analytical Methere Pace Analytical Methere Analytical Methere Analytical Methere Analytical Methere Analytical Methere Analytical MD	mod: EPA 801: Il Services - K mg/kg mg/kg % hod: EPA 801: Il Services - K mg/kg % hod: EPA 826: Il Services - K ug/kg	5B Preparation Me (ansas City 98.6 98.6 31-152 46-130 5B Preparation Me (ansas City 11.0 63-121 0B Preparation Me (ansas City 5.5	10 10 10 10 10 ethod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B 10/18/21 09:58 PA 5035A/5030B 10/18/21 10:58	10/18/21 18:46 10/18/21 18:46 10/18/21 18:46 10/18/21 18:46 10/18/21 21:47 10/18/21 21:47	646-31-1 92-94-4 460-00-4 71-43-2	S4
PH-DRO (C10-C28) PH-DRO (C28-C35) PH-ORO (C28-C35) FURDAMENTAL STATEMENT OF THE STATEMENT O	Analytical Mether Pace Analytical Methere Analytical Methere Pace Analytical Methere Analytical Methere Analytical Methere Analytical Methere Analytical Methere Analytical MD ND ND	mod: EPA 801: If Services - K mg/kg mg/kg % mod: EPA 801: If Services - K mg/kg % mod: EPA 826: If Services - K ug/kg ug/kg	5B Preparation Me (ansas City 98.6 98.6 31-152 46-130 5B Preparation Me (ansas City 11.0 63-121 0B Preparation Me (ansas City 5.5 5.5	10 10 10 10 10 ethod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B  10/18/21 10:58 10/18/21 10:58	10/18/21 18:46 10/18/21 18:46 10/18/21 18:46 10/18/21 18:46 10/18/21 21:47 10/18/21 21:47 10/18/21 17:14 10/18/21 17:14	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4	S4
PH-DRO (C10-C28) PH-DRO (C28-C35) PH-ORO (C28-C35) FUTTH CALL CONTROL	Analytical Mether Pace Analytical Methere Analytical Methere Pace Analytical Methere Analytical Methere Analytical Methere Analytical Methere Analytical Methere Analytical MD	mod: EPA 801: Il Services - K mg/kg mg/kg % mod: EPA 801: Il Services - K mg/kg % mod: EPA 826: Il Services - K ug/kg ug/kg ug/kg	5B Preparation Me (ansas City 98.6 98.6 31-152 46-130 5B Preparation Me (ansas City 11.0 63-121 0B Preparation Me (ansas City 5.5	10 10 10 10 10 ethod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B  10/18/21 10:58 10/18/21 10:58 10/18/21 10:58	10/18/21 18:46 10/18/21 18:46 10/18/21 18:46 10/18/21 18:46 10/18/21 21:47 10/18/21 21:47 10/18/21 17:14 10/18/21 17:14 10/18/21 17:14	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	S4
B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates D-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates L-Bromofluorobenzene (S) B260B MSV 5035A Low Level  Genzene Ethylbenzene Foluene Kylene (Total)	Analytical Meth Pace Analytica  259 466  0 0 Analytical Meth Pace Analytical ND 98 Analytical Meth Pace Analytical ND ND ND ND	mod: EPA 801: If Services - K mg/kg mg/kg % mod: EPA 801: If Services - K mg/kg % mod: EPA 826: If Services - K ug/kg ug/kg	5B Preparation Me (ansas City 98.6 98.6 31-152 46-130 5B Preparation Me (ansas City 11.0 63-121 0B Preparation Me (ansas City 5.5 5.5	10 10 10 10 ethod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B  10/18/21 10:58 10/18/21 10:58 10/18/21 10:58	10/18/21 18:46 10/18/21 18:46 10/18/21 18:46 10/18/21 18:46 10/18/21 21:47 10/18/21 21:47 10/18/21 17:14 10/18/21 17:14	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	S4
GOTON CONTROL OF THE PROPERTY	Analytical Meth Pace Analytica  259 466  0 0 Analytical Meth Pace Analytical ND 98 Analytical Meth Pace Analytical ND ND ND ND	mod: EPA 801: Il Services - K mg/kg mg/kg % mod: EPA 801: Il Services - K mg/kg % mod: EPA 826: Il Services - K ug/kg ug/kg ug/kg	5B Preparation Me (ansas City 98.6 98.6 31-152 46-130 5B Preparation Me (ansas City 11.0 63-121 0B Preparation Me (ansas City 5.5 5.5	10 10 10 10 ethod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B  10/18/21 10:58 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58	10/18/21 18:46 10/18/21 18:46 10/18/21 18:46 10/18/21 18:46 10/18/21 21:47 10/18/21 21:47 10/18/21 17:14 10/18/21 17:14 10/18/21 17:14	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7	S4
GO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics  FPH-GRO Surrogates I-Bromofluorobenzene (S) G260B MSV 5035A Low Level  Genzene Ethylbenzene Foluene Kylene (Total) Surrogates	Analytical Methodology Pace Analytical 259 466 0 0 Analytical Methodology Pace Analytical ND 98 Analytical Methodology Pace Analytical ND ND ND ND ND ND ND	mod: EPA 801: If Services - K mg/kg mg/kg % mod: EPA 801: If Services - K mg/kg wod: EPA 826: If Services - K ug/kg ug/kg ug/kg ug/kg	98.6 98.6 98.6 31-152 46-130 5B Preparation Me (ansas City 11.0 63-121 0B Preparation Me (ansas City 5.5 5.5 5.5	10 10 10 10 ethod: E	PA 3546  10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 10/18/21 11:04 PA 5035A/5030B  10/18/21 09:58 10/18/21 09:58 PA 5035A/5030B  10/18/21 10:58 10/18/21 10:58 10/18/21 10:58 10/18/21 10:58	10/18/21 18:46 10/18/21 18:46 10/18/21 18:46 10/18/21 18:46 10/18/21 21:47 10/18/21 21:47 10/18/21 17:14 10/18/21 17:14 10/18/21 17:14 10/18/21 17:14	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7 2037-26-5	S4

# **REPORT OF LABORATORY ANALYSIS**

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212C-MD-02099

60383397

Project:

Pace Project No.:

# **ANALYTICAL RESULTS**

Sample: SSW-21 (8')	Lab ID: 603	83397017	Collected: 10/15/2	1 08:2	0 Received: 10	0/16/21 09:15 N	Matrix: Solid	
Results reported on a "dry weight	" basis and are ad	justed for pe	ercent moisture, sa	mple s	size and any dilu	ıtions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Met	hod: ASTM D	02974					
	Pace Analytica	al Services - I	Kansas City					
Percent Moisture	4.4	%	0.50	1		10/18/21 10:59		
9056 IC Anions	Analytical Met		56 Preparation Meth Kansas City	nod: EF	PA 9056			
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: 603	83397018	Collected: 10/15/2	1 08:2	5 Received: 10	0/16/21 09:15 M	Matrix: Solid	
Results reported on a "dry weight	" basis and are ad	justed for pe	ercent moisture, sa	mple s	size and any dilu	ıtions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Met	hod: EPA 80°	15B Preparation Me	thod: E	EPA 3546			
	Pace Analytica	al Services - I	Kansas City					
TPH-DRO (C10-C28)	269	mg/kg	99.9	10	10/18/21 11:04	10/18/21 18:54		
TPH-OPO (C28-C35)	500	ma/ka	00 0	10	10/19/21 11:04	10/18/21 18:54		

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 18:54		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 Me	thod: EPA 8015B	Preparation Met	hod: E	PA 5035A/5030B			
	Pace Analytic	al Services - Kan	sas City					
TPH-GRO Surrogates	ND	mg/kg	10.1	1	10/18/21 09:58	10/18/21 22:02		
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 Me	thod: EPA 8260B	Preparation Met	hod: E	PA 5035A/5030B			
	Pace Analytic	al Services - Kan	sas 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 Me	thod: ASTM D297	74					
	Pace Analytic	al Services - Kan	sas City					
Percent Moisture	4.6	%	0.50	1		10/18/21 10:59		
9056 IC Anions	Analytical Me	thod: EPA 9056	Preparation Metho	od: EF	PA 9056			
	Pace Analytic	al Services - Kan	sas City					
Chloride	ND	mg/kg	106	10	10/18/21 11:35	10/19/21 00:46	16887-00-6	

# **REPORT OF LABORATORY ANALYSIS**

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

Sample: FS-8	Lab ID: 603	<b>83397019</b> Co	ollected: 10/15/2	21 08:30	Received: 10	/16/21 09:15 M	latrix: Solid	
Results reported on a "dry weight	" basis and are adj	iusted for perc	ent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
015B Diesel Range Organics	Analytical Meth	nod: EPA 8015E	Preparation Me	ethod: E	PA 3546			
	Pace Analytica	al Services - Kar	nsas City					
PH-DRO (C10-C28)	ND	mg/kg	10.9	1	10/18/21 11:04	10/19/21 10:03		
PH-ORO (C28-C35) Surrogates	ND	mg/kg	10.9	1	10/18/21 11:04	10/19/21 10:03		
-Tetracosane (S)	53	%	31-152	1		10/19/21 10:03		
-Terphenyl (S)	65	%	46-130	1	10/18/21 11:04	10/19/21 10:03	92-94-4	
Basoline Range Organics	•	hod: EPA 8015E al Services - Kar	•	ethod: E	PA 5035A/5030B			
FPH-GRO Surrogates	ND	mg/kg	11.1	1	10/18/21 09:58	10/18/21 22:47		
I-Bromofluorobenzene (S)	97	%	63-121	1	10/18/21 09:58	10/18/21 22:47	460-00-4	
2260B MSV 5035A Low Level		hod: EPA 8260E al Services - Kar		ethod: E	PA 5035A/5030B			
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	
oluene	ND	ug/kg	5.6	1	10/18/21 10:58	10/18/21 17:52	108-88-3	
(ylene (Total) <b>Surrogates</b>	ND	ug/kg	16.7	1	10/18/21 10:58	10/18/21 17:52	1330-20-7	
oluene-d8 (S)	110	%	80-120	1		10/18/21 17:52		
-Bromofluorobenzene (S)	101	%	83-119	1		10/18/21 17:52		
,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	10/18/21 10:58	10/18/21 17:52	2199-69-1	
ercent Moisture		hod: ASTM D29						
	Pace Analytica	al Services - Kar	nsas City					
Percent Moisture	8.4	%	0.50	1		10/18/21 10:59		
056 IC Anions	Analytical Meth	nod: EPA 9056	Preparation Met	hod: EF	PA 9056			
	Pace Analytica	al Services - Kar	nsas City					
Chloride	10300	mg/kg	1080	100	10/18/21 11:35	10/19/21 11:55	16887-00-6	
	Late ID 1000	20027000	-1111 40/45/6	24 00 0	- Danibard 40	140/04 00 45 B	Antonio Onlini	
Sample: FS-12 Res <i>ults reported on a "dry weight</i>	Lab ID: 603 basis and are adj				5 Received: 10 Size and any dilu		iatrix. Solid	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
015B Diesel Range Organics	•	hod: EPA 8015E al Services - Kar	Preparation Mensas City	ethod: E	EPA 3546			
PH-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 19:10		
Surrogates		5 5			-	_		
n-Tetracosane (S)	63	%	31-152	1	10/18/21 11:04	10/18/21 19:10	646-31-1	
o-Terphenyl (S)	75	%	46-130	1	10/18/21 11:04	10/19/21 10:10	02 04 4	

# **REPORT OF LABORATORY ANALYSIS**

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

Describe management and the second	Lab ID. 000	83397020	Collected: 10/15/2	1 08:3	5 Received: 10	/16/21 09:15 N	latrix: Solid	
Results reported on a "dry weight"	' basis and are adj	usted for per	cent moisture, sa	mple s	size and any dilut	ions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
Gasoline Range Organics	Analytical Meth		5B Preparation Me ansas City	thod: E	EPA 5035A/5030B			
TPH-GRO <b>Surrogates</b>	ND	mg/kg	10.4	1	10/18/21 09:58	10/18/21 23:03		
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 Meth Pace Analytica		DB Preparation Me ansas City	thod: E	PA 5035A/5030B			
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) Surrogates	ND	ug/kg	15.6	1	10/18/21 10:58	10/18/21 18:12	1330-20-7	
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 Meth Pace Analytica							
Percent Moisture	6.2	%	0.50	1		10/18/21 10:59		
	Analytical Meth	nod: EPA 9056	Reparation Moth	00d: EE	PA 9056			
9056 IC Anions	Pace Analytica			iou. Lr	710000			
9056 IC Anions Chloride				200		10/19/21 12:06	16887-00-6	
	Pace Analytica 15600 Lab ID: 603	I Services - Kangaran	2120 Collected: 10/15/2	200	10/18/21 11:35 0 Received: 10	/16/21 09:15 M	16887-00-6 latrix: Solid CAS No.	Qua
Chloride Sample: FS-13 Results reported on a "dry weight"	Pace Analytica 15600  Lab ID: 603i " basis and are adj  Results	I Services - Ki mg/kg 83397021 (usted for per Units	2120 Collected: 10/15/2 cent moisture, sa Report Limit BB Preparation Me	200 21 08:4 mple s	10/18/21 11:35  Received: 10  size and any dilute  Prepared	/16/21 09:15 M	latrix: Solid	Qua
Chloride  Sample: FS-13  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics	Pace Analytica 15600  Lab ID: 6036  " basis and are adj  Results  Analytical Meth	I Services - Ki mg/kg 83397021 (usted for per Units	2120 Collected: 10/15/2 cent moisture, sa Report Limit BB Preparation Me	200 21 08:4 mple s	10/18/21 11:35  O Received: 10  Size and any dilute  Prepared  EPA 3546	/16/21 09:15 M	latrix: Solid	Qua R1
Chloride  Sample: FS-13  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)	Pace Analytica 15600  Lab ID: 603i " basis and are adj Results  Analytical Meth Pace Analytica	I Services - Kang/kg  83397021  usted for per Units  nod: EPA 8018 I Services - Kang	2120 Collected: 10/15/2 cent moisture, sa Report Limit 6B Preparation Meansas City	200 21 08:40 <b>mple s</b> DF	10/18/21 11:35  D Received: 10  Size and any dilute Prepared  EPA 3546  10/18/21 15:57	/16/21 09:15 M <b>ions.</b> Analyzed	latrix: Solid	-
Chloride  Sample: FS-13  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28)	Pace Analytica 15600  Lab ID: 603a " basis and are adj Results  Analytical Meth Pace Analytica ND	I Services - Kang/kg  83397021  Units  Hod: EPA 8018 I Services - Kang/kg	2120 Collected: 10/15/2 cent moisture, sa Report Limit 6B Preparation Meansas City 10.6	200 21 08:44 <b>mple s</b> DF ethod: E	10/18/21 11:35  O Received: 10  Size and any dilute Prepared  EPA 3546  10/18/21 15:57 10/18/21 15:57	/16/21 09:15 M ions. Analyzed 10/19/21 09:14	CAS No.	-
Chloride  Sample: FS-13  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)  Surrogates n-Tetracosane (S)	Pace Analytica 15600  Lab ID: 603a " basis and are adj Results  Analytical Meth Pace Analytica ND ND	I Services - Karmg/kg  83397021 ( usted for per Units  nod: EPA 8018 I Services - Karmg/kg mg/kg	2120  Collected: 10/15/2  Cent moisture, sa  Report Limit  BB Preparation Meansas City  10.6 10.6	200 21 08:44 <b>mple s</b> DF othod: E	10/18/21 11:35  D Received: 10  Size and any dilute Prepared  EPA 3546  10/18/21 15:57  10/18/21 15:57	/16/21 09:15 M ions. Analyzed 10/19/21 09:14 10/19/21 09:14	CAS No.	-
Chloride  Sample: FS-13  Results reported on a "dry weight" Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)  Surrogates	Pace Analytica 15600  Lab ID: 6036  " basis and are adj  Results  Analytical Meth Pace Analytica  ND ND  88 47	B3397021 (usted for per Units I Services - King/kg mg/kg % mod: EPA 8015	2120  Collected: 10/15/2 cent moisture, sa Report Limit  6B Preparation Meansas City  10.6 10.6 31-152 46-130  6B Preparation Me	200 21 08:44 200 DF 21 othod: E	10/18/21 11:35  O Received: 10  Size and any dilute Prepared  EPA 3546  10/18/21 15:57 10/18/21 15:57 10/18/21 15:57	/16/21 09:15 M ions. Analyzed  10/19/21 09:14 10/19/21 09:14 10/19/21 09:14	CAS No.	
Chloride  Sample: FS-13  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Pace Analytica 15600  Lab ID: 6034 " basis and are adj Results  Analytical Meth Pace Analytica ND ND ND 88 47 Analytical Meth	B3397021 (usted for per Units I Services - King/kg mg/kg % mod: EPA 8015	2120  Collected: 10/15/2 cent moisture, sa Report Limit  6B Preparation Meansas City  10.6 10.6 31-152 46-130  6B Preparation Me	200 21 08:44 200 DF 21 othod: E	10/18/21 11:35  Received: 10 size and any dilute Prepared  EPA 3546  10/18/21 15:57 10/18/21 15:57 10/18/21 15:57 10/18/21 15:57 EPA 5035A/5030B	/16/21 09:15 M ions. Analyzed  10/19/21 09:14 10/19/21 09:14 10/19/21 09:14	CAS No.	-

# **REPORT OF LABORATORY ANALYSIS**

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

Sample: FS-13	Lab ID: 603		Collected: 10/15/2				latrix: Solid	
Results reported on a "dry weight	t" basis and are adj	usted for p	ercent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level	Analytical Meth	nod: EPA 82	260B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica	l 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) <b>Surrogates</b>	ND	ug/kg	17.7	1	10/18/21 13:48	10/18/21 23:27	1330-20-7	
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 Meth	nod: ASTM	D2974					
	Pace Analytica	l Services -	Kansas City					
Percent Moisture	8.3	%	0.50	1		10/18/21 11:01		
9056 IC Anions	Analytical Meth	nod: EPA 90	56 Preparation Meth	nod: EP	A 9056			
	Pace Analytica	l Services -	Kansas City					
Chloride	9760	mg/kg	1070	100	10/18/21 11:35	10/19/21 09:16	16887-00-6	M1

# **REPORT OF LABORATORY ANALYSIS**

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Project:

212C-MD-02099

Pace Project No.:

60383397

QC Batch: QC Batch Method: 750069

EPA 5035A/5030B

Analysis Method:

EPA 8015B

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

Blank Reporting Result Limit Qualifiers Parameter Units Analyzed TPH-GRO ND 10/18/21 15:44 mg/kg 10.0 % 4-Bromofluorobenzene (S) 97 63-121 10/18/21 15:44

LABORATORY CONTROL SAMPLE: 3003647

LCS LCS Spike % Rec Parameter Units Conc. Result % Rec Limits Qualifiers TPH-GRO mg/kg 50 52.4 105 71-107 63-121 4-Bromofluorobenzene (S) % 99

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3003648

MS MSD 60383397014 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits **RPD** RPD Qual TPH-GRO ND 53.3 53.3 46.7 58.4 86 108 29-143 22 26 mg/kg 4-Bromofluorobenzene (S) % 58 97 63-121 S0

3003649

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### REPORT OF LABORATORY ANALYSIS

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Project:

QC Batch:

212C-MD-02099

Pace Project No.:

60383397

750070

QC Batch Method:

EPA 5035A/5030B

Analysis Method:

EPA 8015B

Analysis Description:

Gasoline Range Organics

Laboratory:

Pace Analytical Services - Kansas City

Associated Lab Samples:

METHOD BLANK: 3003650 Matrix: Solid

Associated Lab Samples:

4-Bromofluorobenzene (S)

60383397021

60383397021

Units

Blank Result Reporting Limit

Qualifiers Analyzed

TPH-GRO

Parameter

mg/kg %

ND 97

10.0 10/19/21 00:04 63-121 10/19/21 00:04

LABORATORY CONTROL SAMPLE:

Parameter

3003651

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

TPH-GRO 4-Bromofluorobenzene (S) mg/kg %

Units

50

48.4

97 99 71-107

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

3003652 MS

Spike

Conc.

51.9

MSD

51.9

MS

MSD

63-121

% Rec

Max

TPH-GRO 4-Bromofluorobenzene (S)

Parameter

60383311003 Result

ND

Units

mg/kg

%

Spike Conc.

MS Result

MSD Result % Rec

% Rec

Limits

**RPD** RPD

Qual

50.9

3003653

50.2

96 98

29-143 99 63-121

26

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### REPORT OF LABORATORY ANALYSIS

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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

		Blank	Reporting		
Parameter	Units	Result	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	

3003634					
	Spike	LCS	LCS	% Rec	
Units	Conc.	Result	% Rec	Limits	Qualifiers
ug/kg	1250	1290	103	67-126	
ug/kg	1250	1390	111	69-127	
ug/kg	1250	1350	108	80-118	
ug/kg	3750	4170	111	69-130	
%			98	80-120	
%			101	83-119	
%			95	80-120	
	Units  ug/kg  ug/kg  ug/kg  ug/kg  %  %	Units Spike Conc.  ug/kg 1250 ug/kg 1250 ug/kg 1250 ug/kg 3750 % %	Units         Spike Conc.         LCS Result           ug/kg         1250         1290           ug/kg         1250         1390           ug/kg         1250         1350           ug/kg         3750         4170           %         %	Units         Spike Conc.         LCS Result         LCS % Rec           ug/kg         1250         1290         103           ug/kg         1250         1390         111           ug/kg         1250         1350         108           ug/kg         3750         4170         111           %         98           %         101	Units         Spike Conc.         LCS Result         LCS % Rec         LCS Limits           ug/kg         1250         1290         103         67-126           ug/kg         1250         1390         111         69-127           ug/kg         1250         1350         108         80-118           ug/kg         3750         4170         111         69-130           %         98         80-120           %         101         83-119

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3003			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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### **REPORT OF LABORATORY ANALYSIS**

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EPA 8260B

Project: 212C-MD-02099

Pace Project No.: 60383397

QC Batch: 750152 Analysis Method:

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					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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 SP	IKE DUPI	LICATE: 3003			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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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

		Blank	Reporting		
Parameter	Units	Result	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 SI	PIKE DUPLIC	CATE: 3003	559		3003560							
			MS	MSD								
	6	0383397001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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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Project:

212C-MD-02099

Pace Project No.:

60383397

QC Batch:

750047

QC Batch Method: EPA 3546 Analysis Method:

EPA 8015B

Analysis Description:

**EPA 8015B** 

Laboratory:

Pace Analytical Services - Kansas City

Associated Lab Samples:

METHOD BLANK: 3003561

Matrix: Solid

Associated Lab Samples:

60383397021

60383397021

		Blank	Reporting		
Parameter	Units	Result	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

LABORATORT CONTROL SAWIFLE.	3003362	Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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	6 Units	0383397021 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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## **REPORT OF LABORATORY ANALYSIS**

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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

SAMPLE DUPLICATE: 3003539

 Parameter
 Units
 60383397001 Result
 Dup Result
 Max RPD
 Max RPD
 Qualifiers

 Percent Moisture
 %
 7.5
 7.5
 1
 20

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**





Project:

212C-MD-02099

Pace Project No.:

60383397

QC Batch:

QC Batch Method:

750053

**ASTM D2974** 

Analysis 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

Blank Result Reporting Limit

Analyzed

Qualifiers

Percent Moisture

Units %

ND

0.50 10/18/21 11:02

SAMPLE DUPLICATE: 3003576

60383397021 Result

Dup Result

RPD

Max RPD

Qualifiers

Parameter Percent Moisture

Parameter

Units %

8.3

7.7

8

20

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**REPORT OF LABORATORY ANALYSIS** 

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### **QUALITY CONTROL DATA**

Project:

212C-MD-02099

Pace Project No.:

60383397

QC Batch: QC Batch Method: 750045

Analysis Method:

EPA 9056

**EPA 9056** 

Analysis Description:

9056 IC Anions

Associated Lab Samples:

Laboratory:

Pace Analytical Services - Kansas City

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

Blank

Reporting

Parameter

Units

Result

Limit

Analyzed

Qualifiers

Chloride

mg/kg

ND

100 10/18/21 18:59

LABORATORY CONTROL SAMPLE:

Parameter

3003553

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Chloride

Units mg/kg

500

497

3003555

633

99 80-120 Qualifiers

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

3003554

MSD

MSD

MSD

% Rec

Max

Chloride

60383397003 Result

185

Spike Conc. 519

MS

Spike MS Conc. Result

519

Result

MS % Rec % Rec 86

Limits 82

**RPD** 

RPD Qual 15

SAMPLE DUPLICATE:

Parameter

3003556 Parameter

Units

mg/kg

60383397002 Result

Dup Result

**RPD** 

610

Max RPD

Qualifiers

80-120

Chloride

mg/kg

Units

927

934

1

15

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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Project:

212C-MD-02099

Pace Project No.:

60383397

QC Batch: QC Batch Method: 750131

EPA 9056

Analysis Method:

EPA 9056

Analysis Description:

9056 IC Anions

Laboratory:

Pace Analytical Services - Kansas City

Associated Lab Samples:

60383397021

METHOD BLANK:

Matrix: Solid

Associated Lab Samples:

60383397021

Blank

Result

ND

Reporting Limit

100

Qualifiers Analyzed

10/19/21 08:19

Chloride

LABORATORY CONTROL SAMPLE:

Parameter

3003894

Spike

LCS

LCS % Rec % Rec Limits

Qualifiers

Parameter Chloride

Units mg/kg

Units

mg/kg

Conc. 500 Result

80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

3003895

60383397021

MSD MS

MS Result

488

3003896

MSD

98

MSD % Rec

% Rec Limits

Max

RPD Qual

Spike Conc.

Spike Conc.

Result

% Rec

MS

**RPD** 

Parameter Units Result Chloride 12400 15 M1 mg/kg 9760 530 530 12300 497 482 80-120

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. I	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**



# **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 750237	
60383397001	NSW-8	EPA 3546	750046	EPA 8015B		
60383397002	NSW-9	EPA 3546	750046	EPA 8015B	750237	
60383397003	NSW-10	EPA 3546	750046	EPA 8015B	750237	
0383397004	NSW-11	EPA 3546	750046	EPA 8015B	750237	
0383397005	SSW-20	EPA 3546	750046	EPA 8015B	750237	
0383397006	SSW-21	EPA 3546	750046	EPA 8015B	750237	
0383397007	SSW-22	EPA 3546	750046	EPA 8015B	750237	
0383397008	SSW-23	EPA 3546	750046	EPA 8015B	750237	
0383397009	SSW-24	EPA 3546	750046	EPA 8015B	750237	
0383397010	SSW-25	EPA 3546	750046	EPA 8015B	750237	
0383397011	SSW-26	EPA 3546	750046	EPA 8015B	750237	
0383397012	SSW-24 (6')	EPA 3546	750046	EPA 8015B	750237	
0383397013	SSW-25 (4')	EPA 3546	750046	EPA 8015B	750237	
0383397014	SSW-26 (6')	EPA 3546	750046	EPA 8015B	750237	
0383397015	NSW-9 (3')	EPA 3546	750046	EPA 8015B	750237	
0383397016	SSW-20 (8')	EPA 3546	750046	EPA 8015B	750237	
0383397017	SSW-21 (8')	EPA 3546	750046	EPA 8015B	750237	
0383397018	SSW-22 (4')	EPA 3546	750046	EPA 8015B	750237	
0383397019	FS-8	EPA 3546	750046	EPA 8015B	750237	
0383397020	FS-12	EPA 3546	750046	EPA 8015B	750237	
0383397021	FS-13	EPA 3546	750047	EPA 8015B	750328	
0383397001	NSW-8	EPA 5035A/5030B	750069	EPA 8015B	750128	
0383397002	NSW-9	EPA 5035A/5030B	750069	EPA 8015B	750128	
0383397003	NSW-10	EPA 5035A/5030B	750069	EPA 8015B	750128	
0383397004	NSW-11	EPA 5035A/5030B	750069	EPA 8015B	750128	
0383397005	SSW-20	EPA 5035A/5030B	750069	EPA 8015B	750128	
0383397006	SSW-21	EPA 5035A/5030B	750069	EPA 8015B	750128	
0383397007	SSW-22	EPA 5035A/5030B	750069	EPA 8015B	750128	
0383397008	SSW-23	EPA 5035A/5030B	750069	EPA 8015B	750128	
0383397009	SSW-24	EPA 5035A/5030B	750069	EPA 8015B	750128	
0383397010	SSW-25	EPA 5035A/5030B	750069	EPA 8015B	750128	
0383397011	SSW-26	EPA 5035A/5030B	750069	EPA 8015B	750128	
0383397012	SSW-24 (6')	EPA 5035A/5030B	750069	EPA 8015B	750128	
0383397013	SSW-25 (4')	EPA 5035A/5030B	750069	EPA 8015B	750128	
0383397014	SSW-26 (6')	EPA 5035A/5030B	750069	EPA 8015B	750128	
0383397015	NSW-9 (3')	EPA 5035A/5030B	750069	EPA 8015B	750128	
0383397016	SSW-20 (8')	EPA 5035A/5030B	750069	EPA 8015B	750128	
0383397017	SSW-21 (8')	EPA 5035A/5030B	750069	EPA 8015B	750128	
0383397018	SSW-22 (4')	EPA 5035A/5030B	750069	EPA 8015B	750128	
0383397019	FS-8	EPA 5035A/5030B	750069	EPA 8015B	750128	
0383397020	FS-12	EPA 5035A/5030B	750069	EPA 8015B	750128	
0383397021	FS-13	EPA 5035A/5030B	750070	EPA 8015B	750127	
0383397001	NSW-8	EPA 5035A/5030B	750067	EPA 8260B	750136	
0383397002	NSW-9	EPA 5035A/5030B	750067	EPA 8260B	750136	
0383397003	NSW-10	EPA 5035A/5030B	750067	EPA 8260B	750136	
0383397004	NSW-11	EPA 5035A/5030B	750067	EPA 8260B	750136	
0383397005	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	Analytica Batch
60383397006	SSW-21	EPA 5035A/5030B	750067	EPA 8260B	750136
60383397007	SSW-22	EPA 5035A/5030B	750067	EPA 8260B	750136
0383397008	SSW-23	EPA 5035A/5030B	750067	EPA 8260B	750136
0383397009	SSW-24	EPA 5035A/5030B	750067	EPA 8260B	750136
0383397010	SSW-25	EPA 5035A/5030B	750067	EPA 8260B	750136
0383397011	SSW-26	EPA 5035A/5030B	750067	EPA 8260B	750136
0383397012	SSW-24 (6')	EPA 5035A/5030B	750067	EPA 8260B	750136
0383397013	SSW-25 (4')	EPA 5035A/5030B	750067	EPA 8260B	750136
0383397014	SSW-26 (6')	EPA 5035A/5030B	750067	EPA 8260B	750136
0383397015	NSW-9 (3')	EPA 5035A/5030B	750067	EPA 8260B	750136
0383397016	SSW-20 (8')	EPA 5035A/5030B	750067	EPA 8260B	750136
0383397017	SSW-21 (8')	EPA 5035A/5030B	750067	EPA 8260B	750136
0383397018	SSW-22 (4')	EPA 5035A/5030B	750067 750067	EPA 8260B	750136
0383397019	FS-8	EPA 5035A/5030B	750067	EPA 8260B	750136
0383397020	FS-12	EPA 5035A/5030B	750067 750067	EPA 8260B	750136
60383397021	FS-13	EPA 5035A/5030B	750152	EPA 8260B	750219
0383397001	NSW-8	ASTM D2974	750040		
0383397002	NSW-9	ASTM D2974	750040		
0383397003	NSW-10	ASTM D2974	750040		
0383397004	NSW-11	ASTM D2974	750040		
0383397005	SSW-20	ASTM D2974	750040		
0383397006	SSW-21	ASTM D2974	750040		
0383397007	SSW-22	ASTM D2974	750040		
0383397008	SSW-23	ASTM D2974	750040		
0383397009	SSW-24	ASTM D2974	750040		
0383397010	SSW-25	ASTM D2974	750040		
0383397011	SSW-26	ASTM D2974	750040		
0383397012	SSW-24 (6')	ASTM D2974	750040		
0383397013	SSW-25 (4')	ASTM D2974	750040		
0383397014	SSW-26 (6')	ASTM D2974	750040		
0383397015	NSW-9 (3')	ASTM D2974	750040		
0383397016	SSW-20 (8')	ASTM D2974 ASTM D2974	750040		
0383397017	SSW-21 (8')	ASTM D2974 ASTM D2974	750040		
0383397018	SSW-22 (4')	ASTM D2974 ASTM D2974	750040		
0383397019	FS-8	ASTM D2974	750040		
0383397020	FS-12	ASTM D2974 ASTM D2974	750040 750040		
60383397021	FS-13	ASTM D2974	750053		
0383397001	NSW-8	EPA 9056	750045	EPA 9056	750163
0383397002	NSW-9	EPA 9056	750045	EPA 9056	750163
0383397003	NSW-10	EPA 9056	750045	EPA 9056	750163
0383397004	NSW-11	EPA 9056	750045	EPA 9056	750163
0383397005	SSW-20	EPA 9056	750045	EPA 9056	750163
0383397006	SSW-21	EPA 9056	750045	EPA 9056	750163
0383397007	SSW-22	EPA 9056	750045	EPA 9056	750163
0383397008	SSW-23	EPA 9056	750045	EPA 9056	750163
0383397009	SSW-24	EPA 9056	750045	EPA 9056	750163
60383397010	SSW-25	EPA 9056	750045	EPA 9056	750163

# **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
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

# **REPORT OF LABORATORY ANALYSIS**



# Sample Condition Upon Receipt



Client Name: TetraTech		
Courier: FedEx D UPS UPS VIA Clay F	PEX 🗆 ECI 🗆	Pace ☐ Xroads ☐ Client ☐ Other ☐
Tracking #: 3155 91 00 040 3 Pace	e Shipping Label Use	d? Yes □ No 🕽
Custody Seal on Cooler/Box Present: Yes □ No IS	Seals intact: Yes [	
Packing Material: Bubble Wrap A Bubble Bags	<b>F</b> oam □	None □ Other 🗟 📿 🕻
Thermometer Used: Type of	Ice Wey Blue No	
Cooler Temperature (°C): As-read 2-9 Corr. Factor	or -6.6 Correc	ted 3. V  Date and initials of person examining contents: 1011221MLK
Temperature should be above freezing to 6°C		10,0
Chain of Custody present:	es 🗆 No 🗆 N/A	
Chain of Custody relinquished:	Tyes ONO ON/A	
Samples arrived within holding time:	Yes No N/A	
Short Hold Time analyses (<72hr):	□Yes ONO □N/A	
Rush Turn Around Time requested:	Yes No N/A	24 hr
Sufficient volume:	To Yes ONO ON/A	
Correct containers used:	Tayes Ono On/A	
Pace containers used:	ĬĠYes □No □N/A	
Containers intact:	Yes ONO ON/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	□Yes □No 🍇N/A	Did not receive sow-20
Filtered volume received for dissolved tests?	□Yes □No ION/A	(8') or solu-21(8').
Sample labels match COC: Date / time / ID / analyses	Yes Mo ON/A	We did receive ssw-20
Samples contain multiple phases? Matrix:	□Yes Tono □N/A	(6) of SSW-21(8) Notime 1
Containers requiring pH preservation in compliance? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO)  LOT#	□Yes □No NoN/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)	□Yes □No	
Potassium iodide test strip turns blue/purple? (Preserve)	□Yes □No	
Trip Blank present:	□Yes □No ØN/A	
Headspace in VOA vials ( >6mm):	□Yes □No ♠N/A	
Samples from USDA Regulated Area: State:	Yes No □N/A	
   Additional labels attached to 5035A / TX1005 vials in the field?	Yes No NA	Vici
Client Notification/ Resolution: Copy COC to		Field Data Required? Y / N
Person Contacted: Date/T	ime:	
Comments/ Resolution:		
1-31		
Project Manager Review:	Date	D





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

die Wood

Project Manager

Enclosures

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

John Thurston, Tetra Tech-Houston TX







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**





# **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**



# **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
0383828002	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
0383828004	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
0383828005	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
0383828006	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
0383828007	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
0383828008	FS-21	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K

# **REPORT OF LABORATORY ANALYSIS**



# **SAMPLE ANALYTE COUNT**

Project: VGEU 2801-02 Pace Project No.: 60383828

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	LDB	1	PASI-K
0383828009	FS-22	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
0383828010	FS-1 (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	LDB	1	PASI-K
0383828011	FS-5 (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
0383828012	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
0383828013	SSW-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	ALH	1	PASI-K
0383828014	SSW-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	ALH	1	PASI-K
0383828015	SSW-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

# **REPORT OF LABORATORY ANALYSIS**



# **SAMPLE ANALYTE COUNT**

Project: VGEU 2801-02 Pace Project No.: 60383828

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9056	ALH	1	PASI-K
60383828016	SSW-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	ALH	1	PASI-K
60383828017	SSW-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	ALH	1	PASI-K
60383828018	SSW-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	CRN2	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

# **REPORT OF LABORATORY ANALYSIS**



Project:	VGEU 2801-02
Pace Project No.:	60383828

Sample: FS-14	Lab ID: 603	83828001	Collected: 10/18/2	21 09:12	Received: 10	)/21/21 07:30 N	/latrix: Solid	
Results reported on a "dry weight	" basis and are ad	justed for p	ercent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
015B Diesel Range Organics	Analytical Met	hod: EPA 80	015B Preparation Me	ethod: E	PA 3546			
5 5	Pace Analytica		•					
PH-DRO (C10-C28)	ND	mg/kg	30.7	1	10/22/21 07:44	10/23/21 21:31		
PH-ORO (C28-C35)	ND	mg/kg	30.7	1		10/23/21 21:31		
urrogates								
-Tetracosane (S)	64	%	31-152	1		10/23/21 21:31		
-Terphenyl (S)	70	%	46-130	1	10/22/21 07:44	10/23/21 21:31	92-94-4	
asoline Range Organics	Analytical Met	hod: EPA 80	015B Preparation Me	ethod: E	PA 5035A/5030B			
	Pace Analytica	al Services -	Kansas City					
PH-GRO	ND	mg/kg	11.8	1	10/22/21 15:02	10/23/21 19:35		
Surrogates								
-Bromofluorobenzene (S)	100	%	63-121	1	10/22/21 15:02	10/23/21 19:35	460-00-4	
260B MSV 5035A Low Level	Analytical Met	hod: EPA 82	260B Preparation Me	ethod: E	PA 5035A/5030B			
	Pace Analytica	al Services -	Kansas City					
enzene	ND	ug/kg	5.9	1	10/22/21 15:02	10/22/21 18:11	71-43-2	
thylbenzene	ND	ug/kg	5.9	1		10/22/21 18:11		
bluene	8.0	ug/kg	5.9	1		10/22/21 18:11		
ylene (Total)	ND	ug/kg	17.7	1	10/22/21 15:02	10/22/21 18:11	1330-20-7	
urrogates								
oluene-d8 (S)	105	%	80-120	1		10/22/21 18:11		
-Bromofluorobenzene (S)	100	%	83-119	1		10/22/21 18:11		
,2-Dichlorobenzene-d4 (S)	97	%	80-120	1	10/22/21 15:02	10/22/21 18:11	2199-69-1	
ercent Moisture	Analytical Met	hod: ASTM	D2974					
	Pace Analytica	al Services -	Kansas City					
ercent Moisture	8.8	%	0.50	1		10/21/21 16:17		
056 IC Anions	Analytical Met	hod: EPA 90	056 Preparation Met	hod: EP	A 9056			
	Pace Analytica							
hloride	2580	mg/kg	223	20	10/22/21 16:12	10/25/21 12:17	16887-00-6	M1
monde	2000	mg/ng	220	20	10/22/21 10:12	10/20/21 12:17	10007 00 0	1411
	L-LID 000		0-11-1-1 40/40/6	24 00 40	Desciond 40	VO4 /04 07 00 B	A-trice Oallal	
ample: FS-15	Lab ID: 603		Collected: 10/18/2				/latrix: Solid	
Results reported on a "dry weight _	_	•		-	•			_
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
015B Diesel Range Organics	Analytical Met	hod: EPA 80	015B Preparation Me	ethod: E	PA 3546			
3	Pace Analytica		•					
PH-DRO (C10-C28)	ND	mg/kg	10.6	1	10/22/21 07:44	10/23/21 21:55		
PH-ORO (C28-C35)	ND	mg/kg	10.6	1		10/23/21 21:55		
Surrogates	1,12	9,119	.5.0	•	. 0,, _ 1	3,23,21,21.00		
-Tetracosane (S)	69	%	31-152	1	10/22/21 07:44	10/23/21 21:55	646-31-1	
-Terphenyl (S)	72	%	46-130	1	10/22/21 07:44			

# **REPORT OF LABORATORY ANALYSIS**

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Project:	VGEU 2801-02
Pace Project No.:	60383828

Results reported on a "dry weight" base Parameters  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)  8260B MSV 5035A Low Level  Benzene Ethylbenzene Toluene Xylene (Total)	Analytical Meth Pace Analytical ND 99 Analytical Meth Pace Analytical	Units  nod: EPA 80 Il Services - mg/kg %	Report Limit 115B Preparation Me	DF	Prepared PA 5035A/5030B	Analyzed	CAS No.	Qua
Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)  8260B MSV 5035A Low Level  Benzene Ethylbenzene Toluene	Analytical Meth Pace Analytica ND 99 Analytical Meth Pace Analytica	nod: EPA 80 Il Services - mg/kg %	15B Preparation Me Kansas City 11.5	thod: E	PA 5035A/5030B		CAS No.	Qua
TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260B MSV 5035A Low Level Benzene Ethylbenzene Toluene	Pace Analytica ND 99 Analytical Meth Pace Analytica	I Services - mg/kg %	Kansas City 11.5					
Surrogates 4-Bromofluorobenzene (S) 8260B MSV 5035A Low Level Benzene Ethylbenzene Toluene	ND 99 Analytical Meth Pace Analytica	mg/kg %	11.5	1	10/22/21 15:02			
Surrogates 4-Bromofluorobenzene (S) 8260B MSV 5035A Low Level Benzene Ethylbenzene Toluene	99 Analytical Meth Pace Analytica	%		1	10/22/21 15:02			
4-Bromofluorobenzene (S)  3260B MSV 5035A Low Level  Benzene Ethylbenzene Toluene	Analytical Meth Pace Analytica		63-121		10/22/21 10.02	10/23/21 19:50		
Benzene Ethylbenzene Foluene	Pace Analytica	od. EDA 93	00-121	1	10/22/21 15:02	10/23/21 19:50	460-00-4	
Benzene Ethylbenzene Foluene	Pace Analytica	IUU. EPA 82	60B Preparation Me	thod: E	PA 5035A/5030B			
Ethylbenzene Toluene			·					
- Toluene	ND	ug/kg	5.7	1	10/22/21 15:02	10/22/21 18:31	71-43-2	
	ND	ug/kg	5.7	1	10/22/21 15:02	10/22/21 18:31	100-41-4	
Xylene (Total)	7.6	ug/kg	5.7	1	10/22/21 15:02	10/22/21 18:31	108-88-3	
ā ,	ND	ug/kg	17.2	1		10/22/21 18:31		
Surrogates	405	0/	00.400		40/00/04 45.00	40/00/04 40:04	2027 20 5	
Toluene-d8 (S)	105	%	80-120	1		10/22/21 18:31		
4-Bromofluorobenzene (S)	99	%	83-119	1		10/22/21 18:31		
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 Meth							
	Pace Analytica	l Services -	Kansas City					
Percent Moisture	7.0	%	0.50	1		10/21/21 16:17		
9056 IC Anions	Analytical Meth Pace Analytica		56 Preparation Meth Kansas City	nod: EP	A 9056			
Chloride	5520	mg/kg	540	50	10/22/21 16:12	10/25/21 13:14	16887-00-6	
Sample: FS-16  Results reported on a "dry weight" base	Lab ID: 603 sis and are adj Results		Collected: 10/18/2 ercent moisture, sa Report Limit				Matrix: Solid  CAS No.	Qua
		Office	— Troport Limit			- Analyzed		
8015B Diesel Range Organics	Analytical Meth	nod: EPA 80	15B Preparation Me	thod: E	PA 3546			
	Pace Analytica	l 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		10/23/21 22:04		
o-Terphenyl (S)	71	%	46-130	1	10/22/21 07:44	10/23/21 22:04	92-94-4	
Gasoline Range Organics	Analytical Meth	nod: EPA 80	15B Preparation Me	thod: E	PA 5035A/5030B			
-	Pace Analytica							
	ND	mg/kg	11.8	1	40/00/04 45 00	10/00/5:		
TPH-GRO <b>Surrogates</b>		5 5	11.0	ı	10/22/21 15:02	10/23/21 20:06		

# **REPORT OF LABORATORY ANALYSIS**

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Project:	VGEU 2801-02
Pace Project No.:	60383828

Sample: FS-16	Lab ID: 603	83828003	Collected: 10/18/2	21 09:24	Received: 10	/21/21 07:30 N	latrix: Solid	
Results reported on a "dry weight	" basis and are ad	iusted for pe	ercent moisture, sa	mple s	ize and any dilut	ions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260B MSV 5035A Low Level	Analytical Metl	hod: EPA 820	60B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica							
Benzene	ND	ug/kg	5.9	1	10/22/21 15:02	10/22/21 18:52	71-43-2	
Ethylbenzene	ND ND	ug/kg ug/kg	5.9	1		10/22/21 18:52		
Toluene	8.0	ug/kg ug/kg	5.9	1		10/22/21 18:52		
Xylene (Total)	ND	ug/kg ug/kg	17.7	1		10/22/21 18:52		
Surrogates	ND	ug/kg	17.7	'	10/22/21 13.02	10/22/21 10.32	1330-20-7	
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 18:52		
1,2-Dichlorobenzene-d4 (S)	95	%	80-120	1		10/22/21 18:52		
Percent Moisture	Analytical Met							
reicent moisture	Pace Analytica							
Percent Moisture	8.5	%	0.50	1		10/21/21 16:17		
					M 0050	.5/21/21 10:11		
9056 IC Anions			56 Preparation Meth	nod: EP	'A 9056			
	Pace Analytica	l Services -	Kansas City					
Chloride	9320	mg/kg	1090	100	10/22/21 16:12	10/25/21 13:36	16887-00-6	
Results reported on a "dry weight	_	iusted for pe		mple s	ize and any dilut	ions.	latrix: Solid	
Sample: FS-17 Results reported on a "dry weight Parameters							latrix: Solid	Qua
Results reported on a "dry weight Parameters	Results	Units	Report Limit	DF	Prepared	ions.		Qua
Results reported on a "dry weight	Results Analytical Met	Units	Report Limit  Report Limit  To Preparation Me	DF	Prepared	ions.		Qua
Results reported on a "dry weight Parameters  8015B Diesel Range Organics	Results	Units	Report Limit  Report Limit  To Preparation Me	DF	Prepared	ions.		Qua
Results reported on a "dry weight Parameters  B015B Diesel Range Organics	Results Analytical Met	Units	Report Limit  Report Limit  To Preparation Me	DF	Prepared PA 3546	ions.		Qua
Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28)	Results  Analytical Metl Pace Analytica	Units  Hod: EPA 80° al Services -	Report Limit  15B Preparation Me Kansas City	DF ethod: E	Prepared PA 3546 10/22/21 07:44	Analyzed		Qua
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)	Results  Analytical Metl Pace Analytica	Units  Hod: EPA 80  al Services -  mg/kg  mg/kg	Report Limit  15B Preparation Me Kansas City  10.2	DF ethod: E	Prepared PA 3546 10/22/21 07:44	Analyzed  10/23/21 22:12		Qui
Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S)	Results  Analytical Methodology Pace Analytica ND ND ND 68	Units  Hod: EPA 80  al Services -  mg/kg	Report Limit  15B Preparation Me Kansas City  10.2 10.2 31-152	DF ethod: E	Prepared  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44	Analyzed  10/23/21 22:12 10/23/21 22:12 10/23/21 22:12	CAS No.	Qu
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S)	Results  Analytical Metl Pace Analytica ND ND	Units  Hod: EPA 80  al Services -  mg/kg  mg/kg	Report Limit  15B Preparation Me Kansas City  10.2 10.2	DF ethod: E	Prepared  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44	Analyzed  10/23/21 22:12 10/23/21 22:12	CAS No.	Qua
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Analytical Meti Pace Analytica ND ND 68 69	Units  Hod: EPA 80  al Services -  mg/kg  mg/kg  %  %	Report Limit  15B Preparation Me Kansas City  10.2  10.2  31-152  46-130	ethod: E	Prepared  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44	Analyzed  10/23/21 22:12 10/23/21 22:12 10/23/21 22:12	CAS No.	Qua
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Analytical Meti Pace Analytica ND ND 68 69	Units  Hod: EPA 80  al Services -  mg/kg  mg/kg  %  hod: EPA 80	Report Limit  15B Preparation Me Kansas City  10.2 10.2 31-152 46-130  15B Preparation Me	ethod: E	Prepared  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44	Analyzed  10/23/21 22:12 10/23/21 22:12 10/23/21 22:12	CAS No.	Qua
Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics	Results  Analytical Metl Pace Analytica  ND ND  68 69  Analytical Metl Pace Analytical	units  Units  Hod: EPA 80  al Services -  mg/kg  mg/kg  %  hod: EPA 80  al Services -	Report Limit  15B Preparation Me Kansas City  10.2 10.2 31-152 46-130  15B Preparation Me Kansas City	ethod: E	Prepared Prepared 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44	Analyzed  10/23/21 22:12 10/23/21 22:12 10/23/21 22:12 10/23/21 22:12	CAS No.	Qua
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO	Analytical Metion Results	Units  Hod: EPA 80  al Services -  mg/kg  mg/kg  %  hod: EPA 80	Report Limit  15B Preparation Me Kansas City  10.2 10.2 31-152 46-130  15B Preparation Me Kansas City	ethod: E	Prepared Prepared 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44	Analyzed  10/23/21 22:12 10/23/21 22:12 10/23/21 22:12 10/23/21 22:12	CAS No.	Qua
Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates	Results  Analytical Methodology Pace Analytical ND ND 68 69 Analytical Methodology Analytical Methodology Pace Analytical ND	units  Units  Hod: EPA 80  al Services -  mg/kg  mg/kg  %  hod: EPA 80  al Services -  mg/kg	Report Limit  15B Preparation Me Kansas City  10.2 10.2 31-152 46-130  15B Preparation Me Kansas City  11.6	omple s  DF  othod: E  1  1  1  thod: Ethod: E	Prepared  PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 107:44 10/22/21 107:44 10/22/21 15:02	Analyzed  10/23/21 22:12 10/23/21 22:12 10/23/21 22:12 10/23/21 22:12	CAS No. 646-31-1 92-94-4	Qua
Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates	Results  Analytical Methodology Pace Analytical ND ND 68 69 Analytical Methodology Pace Analytical ND ND 101	units  Units  Hod: EPA 80  al Services -  mg/kg  mg/kg  %  hod: EPA 80  al Services -  mg/kg	Report Limit  15B Preparation Me Kansas City  10.2 10.2 31-152 46-130 15B Preparation Me Kansas City  11.6 63-121	omple s  DF  othod: E  1  1  1  thod: E  thod: E	Prepared  PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 15:02	Analyzed  10/23/21 22:12 10/23/21 22:12 10/23/21 22:12 10/23/21 22:12	CAS No. 646-31-1 92-94-4	Qua
Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics	Results  Analytical Methodology Pace Analytical ND ND 68 69 Analytical Methodology Pace Analytical ND ND 101	units  Units  Hod: EPA 80  al Services -  mg/kg  mg/kg  %  hod: EPA 80  al Services -  mg/kg	Report Limit  15B Preparation Me Kansas City  10.2 10.2 31-152 46-130  15B Preparation Me Kansas City  11.6	omple s  DF  othod: E  1  1  1  thod: E  thod: E	Prepared  PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 15:02	Analyzed  10/23/21 22:12 10/23/21 22:12 10/23/21 22:12 10/23/21 22:12	CAS No. 646-31-1 92-94-4	Qua
Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)	Results  Analytical Methodology Pace Analytical ND ND 68 69 Analytical Methodology Pace Analytical ND ND 101	units  Units  Hod: EPA 80  al Services -  mg/kg  mg/kg  %  hod: EPA 80  al Services -  mg/kg  mg/kg	Report Limit  15B Preparation Me Kansas City  10.2 10.2 31-152 46-130  15B Preparation Me Kansas City  11.6 63-121  60B Preparation Me	omple s  DF  othod: E  1  1  1  thod: E  thod: E	Prepared  PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 15:02	Analyzed  10/23/21 22:12 10/23/21 22:12 10/23/21 22:12 10/23/21 22:12	CAS No. 646-31-1 92-94-4	Qua
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S) B260B MSV 5035A Low Level	Results  Analytical Methodology Results  Analytical Methodology Analytical Methodology Analytical Methodology Analytical Methodology ND  101  Analytical Methodology Analytical Methodology Analytical Methodology Analytical Methodology	units  Units  Hod: EPA 80  al Services -  mg/kg  mg/kg  %  hod: EPA 80  al Services -  mg/kg  mg/kg  %  hod: EPA 80  al Services -  mg/kg	Report Limit  15B Preparation Me Kansas City  10.2 10.2 31-152 46-130 15B Preparation Me Kansas City  11.6 63-121 60B Preparation Me Kansas City	omple s  DF  othod: E  1  1  1  1  1  1  thod: E  thod: E	Prepared Prepared 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 15:02 10/22/21 15:02 PA 5035A/5030B	10/23/21 22:12 10/23/21 22:12 10/23/21 22:12 10/23/21 22:12 10/23/21 22:12 10/23/21 20:21	CAS No. 646-31-1 92-94-4	Qua
Parameters  Bo15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 4-Bromofluorobenzene (S) B260B MSV 5035A Low Level	Results  Analytical Methodology Pace Analytical ND ND 68 69 Analytical Methodology Pace Analytical ND 101 Analytical Methodology Analytical Methodology ND 101 Analytical Methodology Pace Analytical ND	units  Units  Hod: EPA 80  al Services -  mg/kg  mg/kg  %  hod: EPA 80  al Services -  mg/kg  mg/kg  do Services -  mg/kg  mg/kg	Report Limit  15B Preparation Me Kansas City  10.2 10.2 31-152 46-130 15B Preparation Me Kansas City  11.6 63-121 60B Preparation Me Kansas City  5.8	omple s  DF  othod: E  1  1  1  1  thod: E  thod: E	Prepared Prepared 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 15:02 10/22/21 15:02 PA 5035A/5030B 10/22/21 15:02	10/23/21 22:12 10/23/21 22:12 10/23/21 22:12 10/23/21 22:12 10/23/21 22:12 10/23/21 20:21 10/23/21 20:21	CAS No. 646-31-1 92-94-4 460-00-4	Qua
Parameters  Bo15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 4-Bromofluorobenzene (S) B260B MSV 5035A Low Level  Benzene Ethylbenzene	Results  Analytical Methodology Pace Analytical ND ND 68 69 Analytical Methodology Pace Analytical ND 101 Analytical Methodology Analytical Methodology ND 101 Analytical Methodology Pace Analytical ND ND ND	units  Units  Hod: EPA 80° al Services -  mg/kg  mg/kg  %  Hod: EPA 80° al Services -  mg/kg  kg  ug/kg  ug/kg  ug/kg	Report Limit  15B Preparation Me Kansas City  10.2  10.2  31-152  46-130  15B Preparation Me Kansas City  11.6  63-121  60B Preparation Me Kansas City  5.8  5.8	omple s  DF  othod: E  1  1  1  1  thod: E  thod: E	Prepared Prepared 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02	10/23/21 22:12 10/23/21 22:12 10/23/21 22:12 10/23/21 22:12 10/23/21 22:12 10/23/21 20:21 10/23/21 20:21	CAS No.  646-31-1 92-94-4  71-43-2 100-41-4	Qua
Parameters  Bo15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 4-Bromofluorobenzene (S) B260B MSV 5035A Low Level  Benzene Ethylbenzene Foluene	Results  Analytical Methodology Pace Analytical ND ND 68 69 Analytical Methodology Pace Analytical ND 101 Analytical Methodology Pace Analytical ND ND 7.5	units  Units  Hod: EPA 80°  al Services -  mg/kg  mg/kg  %  Hod: EPA 80°  al Services -  mg/kg  whod: EPA 80°  al Services -  mg/kg  ug/kg  ug/kg  ug/kg  ug/kg	Report Limit  15B Preparation Me Kansas City  10.2 10.2 31-152 46-130 15B Preparation Me Kansas City  11.6 63-121 60B Preparation Me Kansas City  5.8 5.8	omple s  DF  othod: E  1  1  1  1  thod: E  thod: E	Prepared Prepared 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02	10/23/21 22:12 10/23/21 22:12 10/23/21 22:12 10/23/21 22:12 10/23/21 22:12 10/23/21 20:21 10/23/21 20:21 10/22/21 19:12 10/22/21 19:12 10/22/21 19:12	CAS No.  646-31-1 92-94-4  71-43-2 100-41-4 108-88-3	Qua
Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)	Results  Analytical Methodology Pace Analytical ND ND 68 69 Analytical Methodology Pace Analytical ND 101 Analytical Methodology Analytical Methodology ND 101 Analytical Methodology Pace Analytical ND ND ND	units  Units  Hod: EPA 80° al Services -  mg/kg  mg/kg  %  Hod: EPA 80° al Services -  mg/kg  kg  ug/kg  ug/kg  ug/kg	Report Limit  15B Preparation Me Kansas City  10.2  10.2  31-152  46-130  15B Preparation Me Kansas City  11.6  63-121  60B Preparation Me Kansas City  5.8  5.8	omple s  DF  othod: E  1  1  1  1  thod: E  thod: E	Prepared Prepared 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02	10/23/21 22:12 10/23/21 22:12 10/23/21 22:12 10/23/21 22:12 10/23/21 22:12 10/23/21 20:21 10/23/21 20:21	CAS No.  646-31-1 92-94-4  71-43-2 100-41-4 108-88-3	Qua

# **REPORT OF LABORATORY ANALYSIS**

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Project:	VGEU 2801-02
Pace Project No.:	60383828

Sample: FS-17	Lab ID: 603	83828004	Collected: 10/18/2	21 09:30	) Received: 10	/21/21 07:30 IV	latrix: Solid	
Results reported on a "dry weight	" basis and are adj	iusted for p	ercent moisture, sa	imple s	ize and any dilut	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
260B MSV 5035A Low Level	Analytical Meth Pace Analytica		60B Preparation Me	ethod: E	PA 5035A/5030B			
Surrogates 4-Bromofluorobenzene (S) 1,2-Dichlorobenzene-d4 (S)	99 95	% %	83-119 80-120	1 1		10/22/21 19:12 10/22/21 19:12		
Percent Moisture	Analytical Meth	nod: ASTM [	02974					
	Pace Analytica	l Services -	Kansas City					
Percent Moisture	7.8	%	0.50	1		10/21/21 16:17		
0056 IC Anions	Analytical Metl Pace Analytica		56 Preparation Metl Kansas City	hod: EF	A 9056			
Chloride	6290	mg/kg	1090	100	10/22/21 16:12	10/25/21 13:48	16887-00-6	
Sample: FS-18 Results reported on a "dry weight	Lab ID: 603		Collected: 10/18/2				latrix: Solid	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
Parameters	Results	Units	Report Limit  15B Preparation Me	DF	Prepared		CAS No.	Qua
Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35)	Results  Analytical Methods	Units	Report Limit  15B Preparation Me	DF	Prepared PA 3546 10/22/21 07:44		CAS No.	Qua
Parameters  1015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35)  Surrogates	Analytical Methodology Pace Analytical ND	Units  nod: EPA 80  al Services -  mg/kg	Report Limit  15B Preparation Me Kansas City  10.9	DF ethod: E	Prepared PA 3546 10/22/21 07:44 10/22/21 07:44	Analyzed 10/23/21 22:20		Qua
Parameters  015B Diesel Range Organics  PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates -Tetracosane (S)	Analytical Methodology Pace Analytical ND ND	Units  nod: EPA 80  Il Services -  mg/kg  mg/kg	Report Limit  15B Preparation Me Kansas City  10.9 10.9	DF ethod: E	Prepared  PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44	Analyzed  10/23/21 22:20 10/23/21 22:20	646-31-1	Qua
Parameters  1015B Diesel Range Organics  17PH-DRO (C10-C28) 17PH-ORO (C28-C35) 17PH-ORO (C38-C35) 17PH-ORO (	Analytical Meth Pace Analytical ND ND 77 79	Units  nod: EPA 80  al Services -  mg/kg  mg/kg  %  %  nod: EPA 80	Report Limit  15B Preparation Me Kansas City  10.9 10.9 31-152 46-130  15B Preparation Me	DF ethod: E	Prepared  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44	Analyzed  10/23/21 22:20 10/23/21 22:20 10/23/21 22:20 10/23/21 22:20	646-31-1	Qua
Parameters  O15B Diesel Range Organics  PH-DRO (C10-C28) PH-ORO (C28-C35) Currogates -Tetracosane (S) -Terphenyl (S) Casoline Range Organics  PH-GRO	Analytical Methodology Pace Analytical ND ND 77 79 Analytical Methodology	Units  nod: EPA 80  al Services -  mg/kg  mg/kg  %  %  nod: EPA 80	Report Limit  15B Preparation Me Kansas City  10.9 10.9 31-152 46-130  15B Preparation Me	DF ethod: E	Prepared  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44	Analyzed  10/23/21 22:20 10/23/21 22:20 10/23/21 22:20 10/23/21 22:20	646-31-1	Qua
Parameters  015B Diesel Range Organics  PH-DRO (C10-C28) PH-ORO (C28-C35)  Gurrogates -Tetracosane (S) -Terphenyl (S)  Gasoline Range Organics  PH-GRO  Gurrogates	Analytical Mether Pace Analytical ND ND 77 79 Analytical Mether Pace Analytical Me	Units  nod: EPA 80 al Services - mg/kg mg/kg % % nod: EPA 80	Report Limit  15B Preparation Me Kansas City  10.9 10.9 31-152 46-130  15B Preparation Me Kansas City	DF ethod: E	Prepared  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 15:02	Analyzed  10/23/21 22:20 10/23/21 22:20 10/23/21 22:20 10/23/21 22:20	646-31-1 92-94-4	Qua
Parameters  2015B Diesel Range Organics  2PH-DRO (C10-C28) 2PH-ORO (C28-C35) 2-Tetracosane (S) 2-Terphenyl (S) 2-Sasoline Range Organics  2PH-GRO 2Surrogates 3-B-Bromofluorobenzene (S)	Analytical Methodology Pace Analytical ND ND 77 79 Analytical Methodology Pace Analytical ND 100	Units  nod: EPA 80  Il Services -  mg/kg  mg/kg  %  nod: EPA 80  Il Services -  mg/kg  %  nod: EPA 80	Report Limit  15B Preparation Me Kansas City  10.9 10.9 31-152 46-130 15B Preparation Me Kansas City  12.1 63-121	DF ethod: E	Prepared  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 15:02 10/22/21 15:02	Analyzed  10/23/21 22:20 10/23/21 22:20 10/23/21 22:20 10/23/21 22:20  10/23/21 20:37	646-31-1 92-94-4	Qua
Parameters  1015B Diesel Range Organics  17PH-DRO (C10-C28) 17PH-ORO (C28-C35) 17PH-ORO (C28-C35) 17PH-GRO (C28-C35) 17PH-GRO (C38-C35) 17PH-GRO (	Results  Analytical Methodology Pace Analytical ND 77 79  Analytical Methodology Pace Analytical ND 100  Analytical Methodology	Units  nod: EPA 80  Il Services -  mg/kg  mg/kg  %  nod: EPA 80  Il Services -  mg/kg  %  nod: EPA 80	Report Limit  15B Preparation Me Kansas City  10.9 10.9 31-152 46-130 15B Preparation Me Kansas City  12.1 63-121	DF ethod: E	Prepared  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02	Analyzed  10/23/21 22:20 10/23/21 22:20 10/23/21 22:20 10/23/21 22:20  10/23/21 20:37 10/23/21 20:37	646-31-1 92-94-4 460-00-4 71-43-2	Qua
Parameters  015B Diesel Range Organics  PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates -Tetracosane (S) -Terphenyl (S)  Basoline Range Organics  PH-GRO Surrogates -Bromofluorobenzene (S)  260B MSV 5035A Low Level  Benzene Ethylbenzene	Analytical Meth Pace Analytical ND ND Analytical Meth Pace Analytical Meth Pace Analytical ND 100 Analytical Meth Pace Analytical ND ND ND	Units  nod: EPA 80 al Services - mg/kg mg/kg % nod: EPA 80 al Services - mg/kg % nod: EPA 82 ug/kg ug/kg	Report Limit  15B Preparation Me Kansas City  10.9 10.9 31-152 46-130  15B Preparation Me Kansas City  12.1 63-121  60B Preparation Me Kansas City  6.0 6.0	DF ethod: E  1 1 1 1 1 1 tethod: E  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Prepared  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 10:44 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02	Analyzed  10/23/21 22:20 10/23/21 22:20 10/23/21 22:20 10/23/21 22:20  10/23/21 20:37 10/23/21 20:37	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4	Qua
Parameters  015B Diesel Range Organics  PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates -Tetracosane (S) -Terphenyl (S) Sasoline Range Organics  PH-GRO Surrogates -Bromofluorobenzene (S)  260B MSV 5035A Low Level  enzene thylbenzene oluene	Analytical Mether Pace Analytical ND ND Analytical Mether Pace Analytical Mether Pace Analytical ND Analytical Mether Pace Analytical Mether Pace Analytical ND ND ND ND 9.4	Units  nod: EPA 80 al Services - mg/kg mg/kg % hod: EPA 80 al Services - mg/kg % hod: EPA 82 ug/kg ug/kg ug/kg ug/kg	Report Limit  15B Preparation Me Kansas City  10.9 10.9 31-152 46-130  15B Preparation Me Kansas City  12.1 63-121  60B Preparation Me Kansas City  6.0 6.0 6.0	DF ethod: E  1 1 1 1 1 1 tethod: E  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Prepared  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 10:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02	Analyzed  10/23/21 22:20 10/23/21 22:20 10/23/21 22:20 10/23/21 22:20  10/23/21 20:37 10/23/21 20:37  10/22/21 19:32 10/22/21 19:32 10/22/21 19:32	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	Qua
Parameters  015B Diesel Range Organics  PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates -Tetracosane (S) -Terphenyl (S)  Basoline Range Organics  PH-GRO Surrogates -Bromofluorobenzene (S)  260B MSV 5035A Low Level  Benzene Ethylbenzene Sylene (Total)	Analytical Meth Pace Analytical ND ND Analytical Meth Pace Analytical Meth Pace Analytical ND 100 Analytical Meth Pace Analytical ND ND ND	Units  nod: EPA 80 al Services - mg/kg mg/kg % nod: EPA 80 al Services - mg/kg % nod: EPA 82 ug/kg ug/kg	Report Limit  15B Preparation Me Kansas City  10.9 10.9 31-152 46-130  15B Preparation Me Kansas City  12.1 63-121  60B Preparation Me Kansas City  6.0 6.0	DF ethod: E  1 1 1 1 1 1 tethod: E  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Prepared  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 10:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02	Analyzed  10/23/21 22:20 10/23/21 22:20 10/23/21 22:20 10/23/21 22:20  10/23/21 20:37 10/23/21 20:37	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	Qua
Parameters  2015B Diesel Range Organics  2PH-DRO (C10-C28) 2PH-ORO (C28-C35) 2PH-ORO (C28-C35) 2PH-ORO (Seasoline Range Organics  2PH-GRO (Seasoline Range Organics  3PH-GRO (Seasoline Range Organics  3PH-GRO (Seasoline Range Organics  3PH-GRO (Seasoline Range Organics  3PH-GRO (Seasoline Range Organics  3PH-DRO (C28-C35)  3PH-DRO (C10-C28)  3PH-DRO (C10-C28)  3PH-DRO (C10-C28)  3PH-DRO (C10-C28)  3PH-DRO (C28-C35)  3PH-DRO (C28-C35)  3PH-ORO (C28-C	Analytical Mether Pace Analytical ND ND Analytical Mether Pace Analytical Mether Pace Analytical ND Analytical Mether Pace Analytical Mether Pace Analytical ND ND ND ND 9.4	Units  nod: EPA 80 al Services - mg/kg mg/kg % hod: EPA 80 al Services - mg/kg % hod: EPA 82 ug/kg ug/kg ug/kg ug/kg	Report Limit  15B Preparation Me Kansas City  10.9 10.9 31-152 46-130  15B Preparation Me Kansas City  12.1 63-121  60B Preparation Me Kansas City  6.0 6.0 6.0	DF ethod: E  1 1 1 1 1 1 tethod: E  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Prepared  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 10:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02	Analyzed  10/23/21 22:20 10/23/21 22:20 10/23/21 22:20 10/23/21 22:20  10/23/21 20:37 10/23/21 20:37  10/22/21 19:32 10/22/21 19:32 10/22/21 19:32	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7	Qua
	Analytical Mether Pace Analytical ND ND Analytical Mether Pace Analytical ND ND ND 9.4 ND	Units  nod: EPA 80 al Services - mg/kg mg/kg % nod: EPA 80 al Services - mg/kg % nod: EPA 82 ug/kg ug/kg ug/kg ug/kg	Report Limit  15B Preparation Me Kansas City  10.9 10.9 31-152 46-130  15B Preparation Me Kansas City  12.1 63-121 60B Preparation Me Kansas City  6.0 6.0 6.0 18.1	DF ethod: E  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Prepared  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 10:44 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02	Analyzed  10/23/21 22:20 10/23/21 22:20 10/23/21 22:20 10/23/21 22:20  10/23/21 20:37  10/23/21 20:37  10/22/21 19:32 10/22/21 19:32 10/22/21 19:32 10/22/21 19:32	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7 2037-26-5	Qua

# **REPORT OF LABORATORY ANALYSIS**

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Project: VGEU 2801-02 Pace Project No.: 60383828 Collected: 10/18/21 09:36 Sample: FS-18 Lab ID: 60383828005 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 Prepared Analyzed CAS No. Qual Analytical Method: ASTM D2974 **Percent Moisture** 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 555 50 10/22/21 16:12 10/25/21 13:59 16887-00-6 mg/kg 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 Analytical Method: EPA 8015B Preparation Method: EPA 3546 8015B Diesel Range Organics Pace Analytical Services - Kansas City TPH-DRO (C10-C28) ND 10.2 10/22/21 07:44 10/23/21 22:28 mg/kg TPH-ORO (C28-C35) ND 10/22/21 07:44 10/23/21 22:28 mg/kg 10.2 1 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 10/22/21 15:02 10/23/21 20:53 Surrogates 4-Bromofluorobenzene (S) 100 63-121 10/22/21 15:02 10/23/21 20:53 460-00-4 Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B 8260B MSV 5035A Low Level Pace Analytical Services - Kansas City ND Benzene ug/kg 5.5 1 10/22/21 15:02 10/22/21 19:52 71-43-2 Ethylbenzene ND ug/kg 5.5 10/22/21 15:02 10/22/21 19:52 100-41-4 1 Toluene 7.6 ug/kg 5.5 10/22/21 15:02 10/22/21 19:52 108-88-3 Xylene (Total) ND 10/22/21 15:02 10/22/21 19:52 1330-20-7 ug/kg 16.4 Surrogates 106 % 10/22/21 15:02 10/22/21 19:52 2037-26-5 Toluene-d8 (S) 80-120 1 4-Bromofluorobenzene (S) 99 % 83-119 1 10/22/21 15:02 10/22/21 19:52 460-00-4 97 % 1,2-Dichlorobenzene-d4 (S) 80-120 1 10/22/21 15:02 10/22/21 19:52 2199-69-1 Analytical Method: ASTM D2974 **Percent Moisture** Pace Analytical Services - Kansas City Percent Moisture 0.50 1 10/21/21 16:17 Analytical Method: EPA 9056 Preparation Method: EPA 9056 9056 IC Anions Pace Analytical Services - Kansas City

### **REPORT OF LABORATORY ANALYSIS**

103

10

10/22/21 16:12 10/22/21 21:13 16887-00-6

1670

mg/kg

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Date: 10/26/2021 04:11 PM

Chloride



Project: VGEU 2801-02 Pace Project No.: 60383828

Sample: FS-20	Lab ID: 603	<b>83828007</b> C	ollected: 10/18/2	21 09:48	Received: 10	/21/21 07:30 N	latrix: Solid	
Results reported on a "dry weight	" basis and are ad	iusted for perc	ent moisture, sa	imple s	ize and any dilut	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
015B Diesel Range Organics	Analytical Metl	hod: EPA 8015E	3 Preparation Me	ethod: E	PA 3546			
	Pace Analytica	al Services - Kai	nsas City					
PH-DRO (C10-C28)	ND	mg/kg	10.3	1	10/22/21 07:44	10/23/21 22:36		
PH-ORO (C28-C35) Surrogates	ND	mg/kg	10.3	1	10/22/21 07:44	10/23/21 22:36		
-Tetracosane (S)	77	%	31-152	1	10/22/21 07:44	10/23/21 22:36	646-31-1	
-Terphenyl (S)	78	%	46-130	1	10/22/21 07:44	10/23/21 22:36	92-94-4	
Sasoline Range Organics	•	nod: EPA 8015E al Services - Kai	•	ethod: E	PA 5035A/5030B			
FPH-GRO Surrogates	ND	mg/kg	11.1	1	10/22/21 15:02	10/23/21 21:08		
I-Bromofluorobenzene (S)	98	%	63-121	1	10/22/21 15:02	10/23/21 21:08	460-00-4	
3260B MSV 5035A Low Level		hod: EPA 8260E al Services - Kai		ethod: E	PA 5035A/5030B			
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	
oluene	8.1	ug/kg	5.6	1	10/22/21 15:02	10/22/21 20:12	108-88-3	
(ylene (Total) <b>Surrogates</b>	ND	ug/kg	16.7	1	10/22/21 15:02	10/22/21 20:12	1330-20-7	
Toluene-d8 (S)	107	%	80-120	1		10/22/21 20:12		
-Bromofluorobenzene (S)	99	%	83-119	1		10/22/21 20:12		
,2-Dichlorobenzene-d4 (S)	96	%	80-120	1	10/22/21 15:02	10/22/21 20:12	2199-69-1	
ercent Moisture		hod: ASTM D29						
	Pace Analytica	ıl Services - Kaı	nsas City					
Percent Moisture	5.7	%	0.50	1		10/21/21 16:17		
056 IC Anions	Analytical Met	hod: EPA 9056	Preparation Met	hod: EF	A 9056			
	Pace Analytica	ıl Services - Kaı	nsas 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: 603	83828008 C	ollected: 10/18/2	21 09:54	Received: 10	)/21/21 07:30 M	latrix: Solid	
Results reported on a "dry weight								
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	•	hod: EPA 8015E al Services - Kai	Preparation Mensas City	ethod: E	PA 3546			
PH-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		10/23/21 22:44		
Surrogates		- 0						
n-Tetracosane (S)	75	%	31-152	1		10/23/21 22:44		
o-Terphenyl (S)	76	%	46-130	1	10/22/21 07:44	10/23/21 22:44	02 04 4	

# **REPORT OF LABORATORY ANALYSIS**

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Project:	VGEU 2801-02
Pace Project No.:	60383828

	Lab ID: 603		Collected: 10/18/2				latrix: Solid	
Results reported on a "dry weight	-	•		-	•		0.10.11	
Parameters	Results —	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
Gasoline Range Organics	Analytical Meth	nod: EPA 80	15B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica	l Services -	Kansas City					
TPH-GRO	ND	mg/kg	11.5	1	10/22/21 15:02	10/23/21 21:23		
Surrogates	00	0/	63-121	4	40/00/04 45:00	40/00/04 04:00	400 00 4	
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	•		260B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica	l 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 Meth	nod: ASTM I	D2974					
	Pace Analytica							
Percent Moisture	7.0	%	0.50	1		10/21/21 16:17		
9056 IC Anions	Analytical Meth	nod: EPA 90	56 Preparation Meth	od: EF	PA 9056			
	•		Kansas City					
	Face Analytica	CCIVIOCO	ranoac ony					
Chloride	<b>5650</b>		1050	100	10/22/21 16:12	10/25/21 14:22	16887-00-6	
Chloride	•	mg/kg	•	100	10/22/21 16:12	10/25/21 14:22	16887-00-6	
	5650	mg/kg	1050					
Sample: FS-22	5650 Lab ID: 603	mg/kg 83828009	1050 Collected: 10/18/2	1 10:00	Received: 10	/21/21 07:30 M	16887-00-6 flatrix: Solid	
Sample: FS-22 Results reported on a "dry weight	5650 Lab ID: 603 t" basis and are adj	mg/kg 83828009 usted for p	1050  Collected: 10/18/2 percent moisture, sa	1 10:00 <b>mple</b> s	D Received: 10	/21/21 07:30 M	Matrix: Solid	Qua
Sample: FS-22	5650 Lab ID: 603	mg/kg 83828009	1050 Collected: 10/18/2	1 10:00	Received: 10	/21/21 07:30 M		Qua
Sample: FS-22 Results reported on a "dry weight Parameters	5650  Lab ID: 603i " basis and are adj  Results	mg/kg 83828009 usted for p Units	1050  Collected: 10/18/2 percent moisture, sa	1 10:00 <i>mple</i> s	Received: 10 ize and any dilute Prepared	/21/21 07:30 M	Matrix: Solid	Qua
Sample: FS-22 Results reported on a "dry weight Parameters	5650  Lab ID: 603i " basis and are adj  Results	mg/kg 33828009 usted for p Units	Collected: 10/18/2 ercent moisture, sa Report Limit	1 10:00 <i>mple</i> s	Received: 10 ize and any dilute Prepared	/21/21 07:30 M	Matrix: Solid	Qua
Sample: FS-22 Results reported on a "dry weight Parameters B015B Diesel Range Organics	Lab ID: 603: t" basis and are adj Results  Analytical Meth Pace Analytica	mg/kg 83828009 usted for p Units nod: EPA 80	Collected: 10/18/2 percent moisture, sa Report Limit  D15B Preparation Me Kansas City	1 10:00 mple s DF thod: E	O Received: 10  Size and any dilute  Prepared  EPA 3546	/21/21 07:30 M t <b>ions.</b> Analyzed	Matrix: Solid	Qua
Sample: FS-22 Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28)	Lab ID: 603: t" basis and are adj Results Analytical Meth Pace Analytica	mg/kg  83828009  usted for p  Units  nod: EPA 80 I Services -  mg/kg	Collected: 10/18/2 percent moisture, sa Report Limit 015B Preparation Me Kansas City 10.4	1 10:00 mple s  DF  thod: E	O Received: 10  Size and any dilute  Prepared  EPA 3546  10/22/21 07:44	/21/21 07:30 M tions. Analyzed 10/23/21 22:52	Matrix: Solid	Qu
Sample: FS-22 Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35)	Lab ID: 603: t" basis and are adj Results  Analytical Meth Pace Analytica	mg/kg 83828009 usted for p Units nod: EPA 80	Collected: 10/18/2 percent moisture, sa Report Limit  D15B Preparation Me Kansas City	1 10:00 mple s DF thod: E	O Received: 10  Size and any dilute  Prepared  EPA 3546  10/22/21 07:44	/21/21 07:30 M t <b>ions.</b> Analyzed	Matrix: Solid	Qua
Sample: FS-22 Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates	Lab ID: 603: t" basis and are adj Results Analytical Meth Pace Analytica ND ND	mg/kg  83828009  Units  nod: EPA 80 I Services -  mg/kg  mg/kg	Collected: 10/18/2 percent moisture, sa Report Limit 015B Preparation Me Kansas City 10.4 10.4	1 10:00 mple s DF thod: E	Prepared  10/22/21 07:44 10/22/21 07:44	/21/21 07:30 M tions. Analyzed  10/23/21 22:52 10/23/21 22:52	fatrix: Solid  CAS No.	Qua
Sample: FS-22 Results reported on a "dry weight Parameters  3015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S)	Lab ID: 603: t" basis and are adj Results Analytical Meth Pace Analytica ND ND ND	mg/kg  83828009  usted for p  Units  nod: EPA 80 I Services -  mg/kg  mg/kg	Collected: 10/18/2 percent moisture, sa Report Limit 015B Preparation Me Kansas City 10.4 10.4 31-152	1 10:00 mple s DF thod: E	D Received: 10  Size and any dilute  Prepared  EPA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44	/21/21 07:30 M tions. Analyzed  10/23/21 22:52 10/23/21 22:52	CAS No.	Qua
Sample: FS-22 Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S)	Lab ID: 603: t" basis and are adj Results Analytical Meth Pace Analytica ND ND	mg/kg  83828009  Units  nod: EPA 80 I Services -  mg/kg  mg/kg	Collected: 10/18/2 percent moisture, sa Report Limit 015B Preparation Me Kansas City 10.4 10.4	1 10:00 mple s DF thod: E	D Received: 10  Size and any dilute  Prepared  EPA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44	/21/21 07:30 M tions. Analyzed  10/23/21 22:52 10/23/21 22:52	CAS No.	Qua
Sample: FS-22 Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Lab ID: 603: t" basis and are adj Results  Analytical Meth Pace Analytica ND ND 81 81	mg/kg  83828009  usted for p  Units  nod: EPA 80 I Services -  mg/kg  mg/kg  %  hod: EPA 80	Collected: 10/18/2 Percent moisture, sa Report Limit  015B Preparation Me Kansas City  10.4 10.4 31-152 46-130  015B Preparation Me	1 10:00 mple s DF thod: E	Prepared  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44	//21/21 07:30 M tions. Analyzed  10/23/21 22:52 10/23/21 22:52 10/23/21 22:52 10/23/21 22:52	CAS No.	Qua
Sample: FS-22 Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics	Lab ID: 603: t" basis and are adj Results  Analytical Meth Pace Analytica ND ND 81 81 Analytical Meth Pace Analytical Meth	mg/kg  33828009 usted for p Units  nod: EPA 80 I Services - mg/kg mg/kg % hod: EPA 80 I Services -	Collected: 10/18/2 Percent moisture, sa Report Limit 015B Preparation Me Kansas City 10.4 10.4 31-152 46-130 015B Preparation Me Kansas City	1 10:00 mple s DF thod: E	Prepared  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44	/21/21 07:30 M fions. Analyzed  10/23/21 22:52 10/23/21 22:52 10/23/21 22:52 10/23/21 22:52	CAS No.	Qua
Chloride  Sample: FS-22  Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates	Lab ID: 603: t" basis and are adj Results  Analytical Meth Pace Analytica ND ND 81 81 81 Analytical Meth	mg/kg  83828009  usted for p  Units  nod: EPA 80 I Services -  mg/kg  mg/kg  %  hod: EPA 80	Collected: 10/18/2 Percent moisture, sa Report Limit  015B Preparation Me Kansas City  10.4 10.4 31-152 46-130  015B Preparation Me	1 10:00 mple s DF thod: E	Prepared  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44	//21/21 07:30 M tions. Analyzed  10/23/21 22:52 10/23/21 22:52 10/23/21 22:52 10/23/21 22:52	CAS No.	Qua

# **REPORT OF LABORATORY ANALYSIS**

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Project:	VGEU 2801-02
Pace Project No.:	60383828

Sample: FS-22	Lab ID: 603	83828009	Collected: 10/18/2	21 10:00	Received: 10	/21/21 07:30 N	latrix: Solid	
Results reported on a "dry weight	t" basis and are adj	usted for p	ercent moisture, sa	mple s	ize and any dilut	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260B MSV 5035A Low Level	Analytical Meth	nod: EPA 82	60B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica		•					
Benzene	ND	ug/kg	5.8	1	10/22/21 15:02	10/22/21 20:53	71-43-2	
Ethylbenzene	ND	ug/kg ug/kg	5.8	1		10/22/21 20:53		
Toluene	8.7	ug/kg ug/kg	5.8	1		10/22/21 20:53		
Xylene (Total)	ND	ug/kg ug/kg	17.5	1		10/22/21 20:53		
Surrogates	ND	ug/kg	17.5		10/22/21 10.02	10/22/21 20:55	1000 20 7	
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 20:53		
Percent Moisture	Analytical Meth	nod: ASTM I	72974					
ordent moisture	Pace Analytica							
Percent Moisture	7.6	%	0.50	1		10/21/21 16:17		
2050 10 4-1					A 0050			
9056 IC Anions			56 Preparation Meth	noa: EP	A 9056			
	Pace Analytica	I Services -	Kansas City					
Chloride	5790	mg/kg	1080	100	10/22/21 16:12	10/25/21 14:33	16887-00-6	
Results reported on a "dry weight	-	usted for p		mple s	ize and any dilut	tions.	latrix: Solid	
. ,							latrix: Solid	Qua
Results reported on a "dry weight Parameters	t" basis and are adj Results	usted for p	Report Limit	DF	Prepared	tions.		Qua
Results reported on a "dry weight Parameters	Results Analytical Meth	Units On the second sec	Report Limit  15B Preparation Me	DF	Prepared	tions.		Qua
Results reported on a "dry weight Parameters	Results  Analytical Methorace Analytical	Units  Hod: EPA 80 Il Services -	Report Limit  15B Preparation Me	DF	Prepared	tions.		Qua
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28)	Results  Analytical Meth Pace Analytica  12.5	Units  Hod: EPA 80 Il Services -  mg/kg	Report Limit  15B Preparation Me Kansas City  10.6	DF ethod: E	PA 3546	Analyzed 10/23/21 23:00		Qua
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)	Results  Analytical Methorace Analytical	Units  Hod: EPA 80 Il Services -	Report Limit  15B Preparation Me Kansas City	DF ethod: E	PA 3546	Analyzed		Qua
Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates	Results  Analytical Meth Pace Analytica  12.5  14.2	Units  Od: EPA 80  I Services -  mg/kg  mg/kg	Report Limit  15B Preparation Me Kansas City  10.6 10.6	DF ethod: E	PA 3546  10/22/21 07:44 10/22/21 07:44	Analyzed  10/23/21 23:00 10/23/21 23:00	CAS No.	Qua
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S)	Results  Analytical Meth Pace Analytica  12.5 14.2	Units  Units  Hod: EPA 80  I Services -  mg/kg  mg/kg	Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152	DF ethod: E	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44	Analyzed  10/23/21 23:00 10/23/21 23:00 10/23/21 23:00	CAS No.	Qua
Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S)	Results  Analytical Meth Pace Analytica  12.5  14.2	Units  Od: EPA 80 Il Services - mg/kg mg/kg	Report Limit  15B Preparation Me Kansas City  10.6 10.6	DF ethod: E	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44	Analyzed  10/23/21 23:00 10/23/21 23:00	CAS No.	Qua
Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Analytical Meth Pace Analytica 12.5 14.2	Units  Output  Units	Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152	ethod: E	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44	Analyzed  10/23/21 23:00 10/23/21 23:00 10/23/21 23:00	CAS No.	Qua
Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Analytical Meth Pace Analytica 12.5 14.2	Units  Hod: EPA 80  I Services -  mg/kg  mg/kg  %  hod: EPA 80	Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152 46-130  15B Preparation Me	ethod: E	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44	Analyzed  10/23/21 23:00 10/23/21 23:00 10/23/21 23:00	CAS No.	Qua
Results reported on a "dry weighted Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics	Analytical Methodology Pace Analytica  12.5 14.2  77 77  Analytical Methodology Pace Analytical Methodology Analytical Methodology	usted for p Units  nod: EPA 80 Il Services - mg/kg mg/kg % hod: EPA 80 Il Services -	Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152 46-130  15B Preparation Me Kansas City	emple s  DF  ethod: E  1  1  1  thethod: E	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B	10/23/21 23:00 10/23/21 23:00 10/23/21 23:00 10/23/21 23:00 10/23/21 23:00	CAS No.	Qua
Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)  Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO	Analytical Meth Pace Analytica 12.5 14.2 77 77 Analytical Meth	Units  Hod: EPA 80  I Services -  mg/kg  mg/kg  %  hod: EPA 80	Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152 46-130  15B Preparation Me	ethod: E	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B	Analyzed  10/23/21 23:00 10/23/21 23:00 10/23/21 23:00	CAS No.	Qua
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates	Analytical Methodology Pace Analytica  12.5 14.2  77 77  Analytical Methodology Pace Analytical Methodology Analytical Methodology	usted for p Units  nod: EPA 80 Il Services - mg/kg mg/kg % hod: EPA 80 Il Services -	Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152 46-130  15B Preparation Me Kansas City	emple s  DF  ethod: E  1  1  1  thethod: E	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B  10/22/21 15:02	10/23/21 23:00 10/23/21 23:00 10/23/21 23:00 10/23/21 23:00 10/23/21 23:00	CAS No. 646-31-1 92-94-4	Qua
Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)	Analytical Meth Pace Analytical ND 98	usted for p Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg	Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152 46-130  15B Preparation Me Kansas City  11.3 63-121	omple s  DF  othod: E  1  1  1  thod: E  thod: E	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B  10/22/21 15:02	10/23/21 23:00 10/23/21 23:00 10/23/21 23:00 10/23/21 23:00 10/23/21 23:00 10/23/21 22:24	CAS No. 646-31-1 92-94-4	Qua
Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)	Analytical Meth Pace Analytical ND 98	usted for p Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg mg/kg mg/kg	Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152 46-130  15B Preparation Me Kansas City  11.3 63-121  60B Preparation Me	omple s  DF  othod: E  1  1  1  thod: E  thod: E	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B  10/22/21 15:02	10/23/21 23:00 10/23/21 23:00 10/23/21 23:00 10/23/21 23:00 10/23/21 23:00 10/23/21 22:24	CAS No. 646-31-1 92-94-4	Qua
Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260B MSV 5035A Low Level	Results  Analytical Meth Pace Analytical  12.5 14.2  77 77  Analytical Meth Pace Analytical ND 98  Analytical Meth Pace Analytical Meth	usted for p Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg % and: EPA 82 Il Services -	Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152 46-130  15B Preparation Me Kansas City  11.3 63-121  60B Preparation Me Kansas City	omple s  DF  othod: E  1  1  1  1  1  1  thod: E  thod: E	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B  10/22/21 15:02 10/22/21 15:02 PA 5035A/5030B	10/23/21 23:00 10/23/21 23:00 10/23/21 23:00 10/23/21 23:00 10/23/21 23:00 10/23/21 22:24 10/23/21 22:24	CAS No. 646-31-1 92-94-4	Qua
Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 4-Bromofluorobenzene (S) B260B MSV 5035A Low Level	Analytical Meth Pace Analytical ND	units  un	Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152 46-130  15B Preparation Me Kansas City  11.3 63-121  60B Preparation Me Kansas City  5.7	omple s  DF  othod: E  1  1  1  1  1  thod: E  thod: E	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B  10/22/21 15:02 PA 5035A/5030B  10/22/21 15:02	10/23/21 23:00 10/23/21 23:00 10/23/21 23:00 10/23/21 23:00 10/23/21 23:00 10/23/21 22:24 10/23/21 22:24	CAS No. 646-31-1 92-94-4 460-00-4	Qua
Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S) B260B MSV 5035A Low Level  Benzene Ethylbenzene	Analytical Meth Pace Analytical MD ND	usted for p Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg % li Services - ug/kg ug/kg	Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152 46-130  15B Preparation Me Kansas City  11.3 63-121  60B Preparation Me Kansas City  5.7 5.7	omple s  DF  othod: E  1  1  1  1  thod: E  thod: E	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 15:02 10/22/21 15:02 PA 5035A/5030B  10/22/21 15:02 PA 5035A/5030B	10/23/21 23:00 10/23/21 23:00 10/23/21 23:00 10/23/21 23:00 10/23/21 23:00 10/23/21 22:24 10/23/21 22:24 10/22/21 21:13 10/22/21 21:13	CAS No.  646-31-1 92-94-4  71-43-2 100-41-4	Qua
Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S) B260B MSV 5035A Low Level  Benzene Ethylbenzene Toluene	Results  Analytical Meth Pace Analytical  12.5 14.2  77 77  Analytical Meth Pace Analytical ND 98  Analytical Meth Pace Analytical ND ND ND ND 8.4	usted for p Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg wg/kg ug/kg ug/kg ug/kg	Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152 46-130  15B Preparation Me Kansas City  11.3 63-121  60B Preparation Me Kansas City  5.7 5.7	omple s  DF  othod: E  1  1  1  1  thod: E  thod: E	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 107:44 PA 5035A/5030B  10/22/21 15:02 PA 5035A/5030B  10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02	10/23/21 23:00 10/23/21 23:00 10/23/21 23:00 10/23/21 23:00 10/23/21 23:00 10/23/21 22:24 10/23/21 22:24 10/22/21 21:13 10/22/21 21:13 10/22/21 21:13	CAS No.  646-31-1 92-94-4  71-43-2 100-41-4 108-88-3	Qua
Sample: FS-1 (5')  Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)  8260B MSV 5035A Low Level  Benzene Ethylbenzene Toluene Xylene (Total) Surrogates	Analytical Meth Pace Analytical MD ND	usted for p Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg % li Services - ug/kg ug/kg	Report Limit  15B Preparation Me Kansas City  10.6 10.6 31-152 46-130  15B Preparation Me Kansas City  11.3 63-121  60B Preparation Me Kansas City  5.7 5.7	omple s  DF  othod: E  1  1  1  1  thod: E  thod: E	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 107:44 PA 5035A/5030B  10/22/21 15:02 PA 5035A/5030B  10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02	10/23/21 23:00 10/23/21 23:00 10/23/21 23:00 10/23/21 23:00 10/23/21 23:00 10/23/21 22:24 10/23/21 22:24 10/22/21 21:13 10/22/21 21:13	CAS No.  646-31-1 92-94-4  71-43-2 100-41-4 108-88-3	Qua

# **REPORT OF LABORATORY ANALYSIS**

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Project:	VGEU 2801-02
Pace Project No.:	60383828

Sample: FS-1 (5')	Lab ID: 603	83828010	Collected: 10/18/2	21 10:06	Received: 10	0/21/21 07:30 I	Matrix: Solid	
Results reported on a "dry weight	" basis and are adj	usted for p	ercent moisture, sa	mple si	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
260B MSV 5035A Low Level	Analytical Meth	nod: EPA 82	260B Preparation Me	ethod: El	PA 5035A/5030B			
	Pace Analytica	l Services -	Kansas City					
Surrogates								
1-Bromofluorobenzene (S)	99	%	83-119	1	10/22/21 15:02	10/22/21 21:13	460-00-4	
,2-Dichlorobenzene-d4 (S)	96	%	80-120	1	10/22/21 15:02	10/22/21 21:13	2199-69-1	
Percent Moisture	Analytical Meth	nod: ASTM	D2974					
	Pace Analytica	l Services -	Kansas City					
Percent Moisture	6.2	%	0.50	1		10/21/21 16:17		
0056 IC Anions	Analytical Meth	nod: EPA 90	056 Preparation Met	hod: EP/	A 9056			
	Pace Analytica							
Chloride	6230	mg/kg	1060	100	10/22/21 16:12	10/25/21 14:45	16887-00-6	
Paraula: FO F (FI)	Lab ID. COO	02020044	Collected: 10/18/2	1 10:10	Deseived: 40	V/04/04 07:00 I	Antrice Colled	
Sample: FS-5 (5')	Lab ID: 603						Matrix: Solid	
Results reported on a "dry weight	m basis and are adj	ustea for p	ercent moisture, sa	impie si	ze ana any anu	tions.		
	<b>–</b>						0.4.0.4.1	_
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
			<u> </u>		· · ·	Analyzed	CAS No.	Qua
	Analytical Meth	nod: EPA 80	O15B Preparation Me		· · ·	Analyzed	CAS No.	Qua
8015B Diesel Range Organics	Analytical Meth	nod: EPA 80 I Services -	015B Preparation Me Kansas City	ethod: E	PA 3546			Qua
3015B Diesel Range Organics TPH-DRO (C10-C28)	Analytical Meth Pace Analytica 18.3	nod: EPA 80 I Services - mg/kg	015B Preparation Me Kansas City	ethod: E	PA 3546	10/23/21 23:08		Qua
3015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)	Analytical Meth	nod: EPA 80 I Services -	015B Preparation Me Kansas City	ethod: E	PA 3546			Qua
PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates	Analytical Meth Pace Analytica 18.3	nod: EPA 80 I Services - mg/kg	015B Preparation Me Kansas City	ethod: E	PA 3546 10/22/21 07:44 10/22/21 07:44	10/23/21 23:08		Qua
PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates I-Tetracosane (S)	Analytical Meth Pace Analytica 18.3 ND	nod: EPA 80 I Services - mg/kg mg/kg	015B Preparation Me Kansas City 10	ethod: El	PA 3546  10/22/21 07:44  10/22/21 07:44  10/22/21 07:44	10/23/21 23:08 10/23/21 23:08	646-31-1	Qua
PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)	Analytical Meth Pace Analytica 18.3 ND 76 77	nod: EPA 80 I Services - mg/kg mg/kg %	D15B Preparation Me Kansas City  10 10 31-152 46-130	ethod: El 1 1 1 1	PA 3546  10/22/21 07:44 10/22/21 07:44  10/22/21 07:44 10/22/21 07:44	10/23/21 23:08 10/23/21 23:08 10/23/21 23:08 10/23/21 23:08	646-31-1	Qua
B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)	Analytical Meth Pace Analytica 18.3 ND 76 77	mod: EPA 80 I Services - mg/kg mg/kg % %	215B Preparation Me Kansas City  10 10 31-152 46-130 215B Preparation Me	ethod: El 1 1 1 1	PA 3546  10/22/21 07:44 10/22/21 07:44  10/22/21 07:44 10/22/21 07:44	10/23/21 23:08 10/23/21 23:08 10/23/21 23:08 10/23/21 23:08	646-31-1	Qua
PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates I-Tetracosane (S) I-Terphenyl (S) Gasoline Range Organics	Analytical Meth Pace Analytica 18.3 ND 76 77 Analytical Meth Pace Analytica	mod: EPA 80 I Services - mg/kg mg/kg % % nod: EPA 80	2015B Preparation Me Kansas City  10 10 31-152 46-130 2015B Preparation Me Kansas City	thod: El	PA 3546  10/22/21 07:44 10/22/21 07:44  10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B	10/23/21 23:08 10/23/21 23:08 10/23/21 23:08 10/23/21 23:08	646-31-1 92-94-4	Qua
PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates I-Tetracosane (S) I-Terphenyl (S) Gasoline Range Organics  PH-GRO	Analytical Meth Pace Analytica  18.3 ND  76 77 Analytical Meth	mod: EPA 80 I Services - mg/kg mg/kg % %	215B Preparation Me Kansas City  10 10 31-152 46-130 215B Preparation Me	ethod: El 1 1 1 1	PA 3546  10/22/21 07:44 10/22/21 07:44  10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B	10/23/21 23:08 10/23/21 23:08 10/23/21 23:08 10/23/21 23:08	646-31-1 92-94-4	Qua
PH-DRO (C10-C28) PH-DRO (C28-C35) FH-ORO (C28-C35) FURTH CONTRACTOR (S) FOR THE CONTRACTOR	Analytical Meth Pace Analytica 18.3 ND 76 77 Analytical Meth Pace Analytica	mod: EPA 80 I Services - mg/kg mg/kg % % nod: EPA 80	2015B Preparation Me Kansas City  10 10 31-152 46-130 2015B Preparation Me Kansas City	thod: El	PA 3546  10/22/21 07:44 10/22/21 07:44  10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B	10/23/21 23:08 10/23/21 23:08 10/23/21 23:08 10/23/21 23:08	646-31-1 92-94-4	Qua
GO15B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Gurrogates 1-Tetracosane (S) 1-Terphenyl (S) Gasoline Range Organics  TPH-GRO Gurrogates 1-Bromofluorobenzene (S)	Analytical Meth Pace Analytica  18.3 ND  76 77 Analytical Meth Pace Analytical ND  100	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg	2015B Preparation Me Kansas City 10 10 31-152 46-130 2015B Preparation Me Kansas City 11.1 63-121	ethod: El 1 1 1 1 ethod: El 1	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B  10/22/21 15:02	10/23/21 23:08 10/23/21 23:08 10/23/21 23:08 10/23/21 23:08 10/23/21 22:39 10/23/21 22:39	646-31-1 92-94-4	Qua
GO15B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Gurrogates 1-Tetracosane (S) 1-Terphenyl (S) Gasoline Range Organics  TPH-GRO Gurrogates 1-Bromofluorobenzene (S)	Analytical Meth Pace Analytica  18.3 ND  76 77 Analytical Meth Pace Analytical ND  100	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg %	260B Preparation Me 2015B Preparation Me 31-152 46-130 2015B Preparation Me Kansas City 11.1	ethod: El 1 1 1 1 ethod: El 1	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B  10/22/21 15:02	10/23/21 23:08 10/23/21 23:08 10/23/21 23:08 10/23/21 23:08 10/23/21 22:39 10/23/21 22:39	646-31-1 92-94-4	Qua
3015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) n-Terphenyl (S) Gasoline Range Organics  TPH-GRO Surrogates 1-Bromofluorobenzene (S) 3260B MSV 5035A Low Level	Analytical Meth Pace Analytica  18.3 ND  76 77 Analytical Meth Pace Analytica ND  100 Analytical Meth Pace Analytical Meth	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg %	260B Preparation Me Kansas City  10 10 31-152 46-130 215B Preparation Me Kansas City 11.1 63-121	ethod: El 1 1 1 1 ethod: El 1	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B  10/22/21 15:02 PA 5035A/5030B	10/23/21 23:08 10/23/21 23:08 10/23/21 23:08 10/23/21 23:08 10/23/21 22:39 10/23/21 22:39	646-31-1 92-94-4 460-00-4	Qua
io15B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Tetracosane (S) Tetracosane (	Analytical Meth Pace Analytica  18.3 ND  76 77 Analytical Meth Pace Analytica ND  100 Analytical Meth Pace Analytical Meth	mod: EPA 80 I Services - mg/kg mg/kg % mod: EPA 80 I Services - mg/kg % l Services - ug/kg	260B Preparation Me Kansas City  10 10 31-152 46-130 215B Preparation Me Kansas City 11.1 63-121 260B Preparation Me Kansas City 5.5	ethod: El  1  1  1  1  1  1  1  thod: El  1  1	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B  10/22/21 15:02 PA 5035A/5030B  10/22/21 15:02	10/23/21 23:08 10/23/21 23:08 10/23/21 23:08 10/23/21 23:08 10/23/21 22:39 10/23/21 22:39	646-31-1 92-94-4 460-00-4	Qua
io15B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates Tetracosane (S) Te	Analytical Meth Pace Analytica  18.3 ND  76 77 Analytical Meth Pace Analytica ND  100 Analytical Meth Pace Analytical ND ND ND	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg % nod: EPA 82 I Services - ug/kg ug/kg	2015B Preparation Me Kansas City  10 10 31-152 46-130 2015B Preparation Me Kansas City  11.1 63-121 260B Preparation Me Kansas City  5.5 5.5	ethod: El  1  1  1  1  1  1  1  thod: El  1  1  1  1  1  1  1  1  1  1  1  1  1	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B  10/22/21 15:02 PA 5035A/5030B  10/22/21 15:02 PA 5035A/5030B	10/23/21 23:08 10/23/21 23:08 10/23/21 23:08 10/23/21 23:08 10/23/21 22:39 10/23/21 22:39 10/22/21 21:33 10/22/21 21:33	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4	Qua
PH-DRO (C10-C28) PH-DRO (C28-C35) PH-ORO (C28-C35) FUTTH CALL CONTROL	Analytical Meth Pace Analytica  18.3 ND  76 77 Analytical Meth Pace Analytica ND  100 Analytical Meth Pace Analytical ND ND ND ND	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg % nod: EPA 82 I Services - ug/kg ug/kg ug/kg	2015B Preparation Me Kansas City  10 10 31-152 46-130 2015B Preparation Me Kansas City  11.1 63-121 260B Preparation Me Kansas City  5.5 5.5	ethod: El  1  1  1  1  1  1  thod: El  1  1  1  1  1  1  1  1  1  1  1  1  1	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B  10/22/21 15:02 PA 5035A/5030B  10/22/21 15:02 PA 5035A/5030B  10/22/21 15:02 10/22/21 15:02 10/22/21 15:02	10/23/21 23:08 10/23/21 23:08 10/23/21 23:08 10/23/21 23:08 10/23/21 22:39 10/23/21 22:39 10/22/21 21:33 10/22/21 21:33 10/22/21 21:33	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	Qua
io15B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates Tetracosane (S) Te	Analytical Meth Pace Analytica  18.3 ND  76 77 Analytical Meth Pace Analytica ND  100 Analytical Meth Pace Analytical ND ND ND	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg % nod: EPA 82 I Services - ug/kg ug/kg	2015B Preparation Me Kansas City  10 10 31-152 46-130 2015B Preparation Me Kansas City  11.1 63-121 260B Preparation Me Kansas City  5.5 5.5	ethod: El  1  1  1  1  1  1  1  thod: El  1  1  1  1  1  1  1  1  1  1  1  1  1	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B  10/22/21 15:02 PA 5035A/5030B  10/22/21 15:02 PA 5035A/5030B  10/22/21 15:02 10/22/21 15:02 10/22/21 15:02	10/23/21 23:08 10/23/21 23:08 10/23/21 23:08 10/23/21 23:08 10/23/21 22:39 10/23/21 22:39 10/22/21 21:33 10/22/21 21:33	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	Qua
RO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates D-Tetracosane (S) D-Terphenyl (S) Gasoline Range Organics  FPH-GRO Surrogates L-Bromofluorobenzene (S) R260B MSV 5035A Low Level  Genzene Ethylbenzene Foluene Kylene (Total) Surrogates Surrogates	Analytical Meth Pace Analytica  18.3 ND  76 77 Analytical Meth Pace Analytica ND  100 Analytical Meth Pace Analytical ND ND ND ND	mod: EPA 80 I Services - mg/kg mg/kg % mod: EPA 80 I Services - mg/kg % nod: EPA 82 I Services - ug/kg ug/kg ug/kg ug/kg	2015B Preparation Me Kansas City  10 10 31-152 46-130 2015B Preparation Me Kansas City  11.1 63-121 260B Preparation Me Kansas City  5.5 5.5	ethod: El  1  1  1  1  1  1  thod: El  1  1  1  1  1  1  1  1  1  1  1  1  1	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 10:02 10/22/21 15:02 PA 5035A/5030B  10/22/21 15:02 PA 5035A/5030B  10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02	10/23/21 23:08 10/23/21 23:08 10/23/21 23:08 10/23/21 23:08 10/23/21 22:39 10/23/21 22:39 10/23/21 22:39 10/22/21 21:33 10/22/21 21:33 10/22/21 21:33	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7	Qua
Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates -Tetracosane (S) -Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 4-Bromofluorobenzene (S)  Benzene Ethylbenzene Foluene Kylene (Total) Surrogates  Foluene-d8 (S)  F-Bromofluorobenzene (S)	Analytical Meth Pace Analytica  18.3 ND  76 77 Analytical Meth Pace Analytica ND  100 Analytical Meth Pace Analytical ND ND ND ND ND ND	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg % nod: EPA 82 I Services - ug/kg ug/kg ug/kg	2015B Preparation Me Kansas City  10 10 31-152 46-130 2015B Preparation Me Kansas City  11.1 63-121 260B Preparation Me Kansas City  5.5 5.5 16.6	ethod: El 1 1 1 2 2 4 1 1 2 4 1 1 1 1 1 1 1 1 1 1	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 10:02 10/22/21 15:02 PA 5035A/5030B  10/22/21 15:02 PA 5035A/5030B  10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02	10/23/21 23:08 10/23/21 23:08 10/23/21 23:08 10/23/21 23:08 10/23/21 22:39 10/23/21 22:39 10/22/21 21:33 10/22/21 21:33 10/22/21 21:33	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7 2037-26-5	Qua

# **REPORT OF LABORATORY ANALYSIS**

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Project: VGEU 2801-02 Pace Project No.: 60383828 Collected: 10/18/21 10:10 Received: 10/21/21 07:30 Sample: FS-5 (5') Lab ID: 60383828011 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 Prepared Analyzed CAS No. Qual Analytical Method: ASTM D2974 **Percent Moisture** 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 1060 100 10/22/21 16:12 10/26/21 09:33 16887-00-6 mg/kg 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 Analytical Method: EPA 8015B Preparation Method: EPA 3546 8015B Diesel Range Organics Pace Analytical Services - Kansas City TPH-DRO (C10-C28) ND 10/22/21 07:44 10/23/21 23:17 mg/kg 10.9 TPH-ORO (C28-C35) ND 10/22/21 07:44 10/23/21 23:17 mg/kg 10.9 1 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 10/22/21 15:02 10/23/21 22:54 Surrogates 4-Bromofluorobenzene (S) 98 63-121 10/22/21 15:02 10/23/21 22:54 460-00-4 Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B 8260B MSV 5035A Low Level Pace Analytical Services - Kansas City ND Benzene ug/kg 6.2 1 10/22/21 15:02 10/22/21 21:53 71-43-2 Ethylbenzene ND ug/kg 6.2 10/22/21 15:02 10/22/21 21:53 100-41-4 1 Toluene ND ug/kg 6.2 10/22/21 15:02 10/22/21 21:53 108-88-3 Xylene (Total) ND 18.6 10/22/21 15:02 10/22/21 21:53 1330-20-7 ug/kg Surrogates 106 % 10/22/21 15:02 10/22/21 21:53 2037-26-5 Toluene-d8 (S) 80-120 1 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 Analytical Method: ASTM D2974 **Percent Moisture** Pace Analytical Services - Kansas City Percent Moisture 10.7 0.50 1 10/21/21 16:18 Analytical Method: EPA 9056 Preparation Method: EPA 9056 9056 IC Anions Pace Analytical Services - Kansas City

#### **REPORT OF LABORATORY ANALYSIS**

1150

100

10/22/21 16:12 10/26/21 09:44 16887-00-6

13200

mg/kg

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Date: 10/26/2021 04:11 PM

Chloride



Project: VGEU 2801-02 Pace Project No.: 60383828

Sample: SSW-14	Lab ID: 603	83828013	Collected: 10/19/2	1 09:35	Received: 10	/21/21 07:30 N	∕latrix: Solid	
Results reported on a "dry weight	" basis and are adj	usted for p	ercent moisture, sa	mple s	ize and any dilu	ions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3015B Diesel Range Organics	Analytical Meth	nod: FPA 80	015B Preparation Me	thod: F	PA 3546			
50 TOD Dieser Kange Organios	Pace Analytica		•		17.0010			
	•		•					
TPH-DRO (C10-C28)	11.1	mg/kg	10.6	1		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	64	%	31-152	1	10/22/21 07:44	10/25/21 11:36	646 24 4	
n-Tetracosane (S) p-Terphenyl (S)	69	% %	46-130	1		10/25/21 11:36		
p-rerprienty (3)	09	70	40-130	Ī	10/22/21 07.44	10/25/21 11.50	92-94-4	
Gasoline Range Organics	Analytical Meth	nod: EPA 80	015B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica	l Services -	Kansas City					
TPH-GRO	ND	mg/kg	11.1	1	10/22/21 15:02	10/23/21 23:39		
Surrogates	ND	mg/kg	11.1	'	10,22,21 10.02	15/20/21 20.00		
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	•		260B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica	I 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 Meth	nod: ASTM	D2974					
. ordent meletare	Pace Analytica							
	-		•					
Percent Moisture	5.6	%	0.50	1		10/21/21 16:18		
9056 IC Anions	Analytical Meth	nod: EPA 90	056 Preparation Meth	od: EP	A 9056			
	Pace Analytica							
· · ·	,		,					
Chloride	109	mg/kg	104	10	10/22/21 16:12	10/22/21 23:58	16887-00-6	
Sample: SSW-15	Lab ID: 603	83828014	Collected: 10/19/2	1 09:45	Received: 10	/21/21 07:30 M	Matrix: Solid	
Results reported on a "dry weight	" basis and are ad	usted for p	ercent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	, DF	Prepared		CAS No.	Oua
Farameters	— Results	Units	— Report Limit	DF	- Frepareu	Analyzed	CAS NO.	Qua
8015B Diesel Range Organics	Analytical Meth	nod: FPA 80	015B Preparation Me	thod: F	PA 3546			
oo 13D Dieser Kange Organies	Pace Analytica		•	illou. L	17.0040			
	-		Narioas Oily					
TPH-DRO (C10-C28)	17.4	mg/kg	10.6	1		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	05	0/	04 450	4	40/00/04 07 44	40/05/04 44 44	040 04 4	
n-Tetracosane (S)	85	%	31-152	1	10/22/21 07:44			
p-Terphenyl (S)	74	%	46-130	1	10/22/21 07:44	10/25/21 11:44	92-94-4	

# **REPORT OF LABORATORY ANALYSIS**

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Project:	VGEU 2801-02
Pace Project No.:	60383828

Populto reported on a "dm!-!-!-!	_ub .b. 000	83828014	Collected: 10/19/2	1 09:4	5 Received: 10	/21/21 07:30 N	fatrix: Solid	
Results reported on a "dry weight"	basis and are adj	usted for pe	rcent moisture, sa	mple s	size and any dilut	ions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Meth Pace Analytica		5B Preparation Me ansas City	thod: E	EPA 5035A/5030B			
TPH-GRO <b>Surrogates</b>	ND	mg/kg	11.1	1	10/22/21 15:02	10/23/21 23:55		
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 Meth Pace Analytica		OB Preparation Me ansas City	thod: E	EPA 5035A/5030B			
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) <b>Surrogates</b>	ND	ug/kg	16.6	1	10/22/21 15:02	10/22/21 22:33	1330-20-7	
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 Meth Pace Analytica							
Percent Moisture	6.0	%	0.50	1		10/21/21 16:18		
9056 IC Anions	Analytical Meth Pace Analytica		6 Preparation Meth	nod: EF	PA 9056			
	Face Analytica	i Services - IV	arisas City					
Chloride	246	mg/kg	108	10	10/22/21 16:12	10/23/21 00:16	16887-00-6	
Sample: SSW-16  Results reported on a "dry weight"  Parameters	Lab ID: 603 basis and are adj	mg/kg 83828015 usted for per Units	108  Collected: 10/19/2  rcent moisture, sa  Report Limit	1 09:5 <b>mple s</b> DF	5 Received: 10 size and any dilut Prepared	/21/21 07:30 M	16887-00-6 Matrix: Solid CAS No.	Qual
Chloride  Sample: SSW-16  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics	Lab ID: 603 basis and are adj	mg/kg 83828015 usted for per Units	Collected: 10/19/2 rcent moisture, sa Report Limit 5B Preparation Me	1 09:5 <b>mple s</b> DF	5 Received: 10 size and any dilut Prepared	/21/21 07:30 M	latrix: Solid	Qua
Sample: SSW-16  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics	Lab ID: 603/ basis and are adj Results Analytical Meth	mg/kg 83828015 usted for per Units	Collected: 10/19/2 rcent moisture, sa Report Limit 5B Preparation Me	1 09:5 <b>mple s</b> DF	5 Received: 10 size and any dilut Prepared	/21/21 07:30 M <b>ions.</b> Analyzed	latrix: Solid	Qua
Sample: SSW-16  Results reported on a "dry weight"  Parameters	Lab ID: 603a  Lab ID: 603a  Lab ID: 603a  Results  Analytical Methors  Pace Analytical	mg/kg 83828015 usted for per Units nod: EPA 801:	Collected: 10/19/2 rcent moisture, sa Report Limit 5B Preparation Melansas City	1 09:5  mple s  DF  thod: E	5 Received: 10  Size and any dilute  Prepared  EPA 3546	/21/21 07:30 M ions. Analyzed 10/25/21 11:52	latrix: Solid	Qua
Sample: SSW-16 Results reported on a "dry weight" Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates	Lab ID: 603i basis and are adj Results Analytical Meth Pace Analytica	mg/kg 83828015 usted for per Units nod: EPA 801: I Services - K mg/kg	Collected: 10/19/2 rcent moisture, sa Report Limit B Preparation Melansas City 9.9	DF thod: E	5 Received: 10  Size and any dilute  Prepared  EPA 3546  10/22/21 07:44 10/22/21 07:44	/21/21 07:30 M ions. Analyzed 10/25/21 11:52	flatrix: Solid  CAS No.	Qua
Sample: SSW-16 Results reported on a "dry weight" Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S)	Lab ID: 603i basis and are adj Results Analytical Meth Pace Analytica ND ND	mg/kg 83828015 usted for per Units nod: EPA 801: I Services - K mg/kg mg/kg	Collected: 10/19/2 rcent moisture, sa Report Limit 5B Preparation Me ansas City 9.9 9.9	of 1 09:5 mple so DF thod: E	5 Received: 10  Size and any dilute  Prepared  EPA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44	/21/21 07:30 M ions. Analyzed  10/25/21 11:52 10/25/21 11:52	Tatrix: Solid  CAS No.  646-31-1	Qua
Sample: SSW-16  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)	Lab ID: 603:  The basis and are adj Results  Analytical Meth Pace Analytica ND ND 73 60	mg/kg  83828015  usted for per Units  nod: EPA 801: I Services - K mg/kg mg/kg % % nod: EPA 801:	Collected: 10/19/2 rcent moisture, sa Report Limit  5B Preparation Me ansas City  9.9 9.9 31-152 46-130  5B Preparation Me	1 09:5 mple s DF thod: E	FPA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44	/21/21 07:30 M ions. Analyzed  10/25/21 11:52 10/25/21 11:52	Tatrix: Solid  CAS No.  646-31-1	Qua
Sample: SSW-16 Results reported on a "dry weight" Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Lab ID: 603:  Abasis and are adj Results  Analytical Meth Pace Analytica ND ND 73 60  Analytical Meth	mg/kg  83828015  usted for per Units  nod: EPA 801: I Services - K mg/kg mg/kg % % nod: EPA 801:	Collected: 10/19/2 rcent moisture, sa Report Limit  5B Preparation Me ansas City  9.9 9.9 31-152 46-130  5B Preparation Me	1 09:5 mple s DF thod: E	5 Received: 10  Size and any dilute Prepared  EPA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 EPA 5035A/5030B	/21/21 07:30 M ions. Analyzed  10/25/21 11:52 10/25/21 11:52	Tatrix: Solid  CAS No.  646-31-1	Qual

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Project:	VGEU 2801-02
Pace Project No.:	60383828

Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City  enzene  ND ug/kg 5.4 1 10/22/21 15:02 10/22/21 22:54 71-43-2 thylbenzene ND ug/kg 5.4 1 10/22/21 15:02 10/22/21 22:54 100-41-4 bluene ND ug/kg 5.4 1 10/22/21 15:02 10/22/21 22:54 108-88-3 ylene (Total) ND ug/kg 5.4 1 10/22/21 15:02 10/22/21 22:54 108-88-3 ylene (Total) ND ug/kg 16.1 1 10/22/21 15:02 10/22/21 22:54 108-88-3 pluene-d8 (S) 108 % 80-120 1 10/22/21 15:02 10/22/21 22:54 230-20-7 urrogates bluene-d8 (S) 99 % 83-119 1 10/22/21 15:02 10/22/21 22:54 460-00-4 2-Dichlorobenzene (S) 99 % 83-119 1 10/22/21 15:02 10/22/21 22:54 299-69-1  ercent Moisture Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City ercent Moisture 3.8 % 0.50 1 10/21/21 16:18  D56 IC Anions Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City hloride ND mg/kg 104 10 10/22/21 16:12 10/23/21 00:35 16887-00-6  D15B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City PH-DRO (C10-C28) ND mg/kg 10.5 1 10/22/21 07:44 10/25/21 12:00		_	_	ercent moisture, sa	mple s	ize and any dilu	. •		
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City  enzene  ND ug/kg 5.4 1 10/22/21 15:02 10/22/21 22:54 71-43-2 thylbenzene ND ug/kg 5.4 1 10/22/21 15:02 10/22/21 22:54 100-41-4 bluene ND ug/kg 5.4 1 10/22/21 15:02 10/22/21 22:54 108-88-3 ylene (Total) ND ug/kg 5.4 1 10/22/21 15:02 10/22/21 22:54 108-88-3 ylene (Total) ND ug/kg 16.1 1 10/22/21 15:02 10/22/21 22:54 108-88-3 pluene-d8 (S) 108 % 80-120 1 10/22/21 15:02 10/22/21 22:54 230-20-7 urrogates bluene-d8 (S) 99 % 83-119 1 10/22/21 15:02 10/22/21 22:54 460-00-4 2-Dichlorobenzene (S) 99 % 83-119 1 10/22/21 15:02 10/22/21 22:54 299-69-1  ercent Moisture Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City ercent Moisture 3.8 % 0.50 1 10/21/21 16:18  D56 IC Anions Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City hloride ND mg/kg 104 10 10/22/21 16:12 10/23/21 00:35 16887-00-6  D15B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City PH-DRO (C10-C28) ND mg/kg 10.5 1 10/22/21 07:44 10/25/21 12:00		Results			,	size and any and	ions.		
Pace Analytical Services - Kansas City enzene  ND ug/kg 5.4 1 10/22/21 15:02 10/22/21 22:54 71-43-2 thylbenzene ND ug/kg 5.4 1 10/22/21 15:02 10/22/21 22:54 100-41-4 olluene ND ug/kg 5.4 1 10/22/21 15:02 10/22/21 22:54 100-41-4 olluene ND ug/kg 16.1 1 10/22/21 15:02 10/22/21 22:54 1330-20-7 urrogates olluene-(B (S)) ND ug/kg 16.1 1 10/22/21 15:02 10/22/21 22:54 1330-20-7 urrogates olluene-(B (S)) ND ug/kg 16.1 1 10/22/21 15:02 10/22/21 22:54 1330-20-7 urrogates olluene-(B (S)) ND ug/kg 16.1 1 10/22/21 15:02 10/22/21 22:54 1330-20-7 urrogates olluene-(B (S)) ND 99 % 80-120 1 10/22/21 15:02 10/22/21 22:54 2037-26-5 NB-monofluorobenzene-(S) NB 99 % 83-119 1 10/22/21 15:02 10/22/21 22:54 460-00-4 NB 95 % 80-120 1 10/22/21 15:02 10/22/21 22:54 2199-69-1  ercent Moisture Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City ercent Moisture 3.8 % 0.50 1 10/21/21 16:18  D56 IC Anions Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City hloride ND mg/kg 104 10 10/22/21 16:12 10/23/21 00:35 16887-00-6  ample: SSW-17 Lab ID: 60383828016 Collected: 10/19/21 10:05 Received: 10/21/21 07:30 Matrix: Solid esults 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. Co. D15B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City PH-DRO (C10-C28) ND mg/kg 10.5 1 10/22/21 07:44 10/25/21 12:00	2260B MSV 5035A Low Level		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
Pace Analytical Services - Kansas City enzene  ND ug/kg 5.4 1 10/22/21 15:02 10/22/21 22:54 71-43-2 thylbenzene ND ug/kg 5.4 1 10/22/21 15:02 10/22/21 22:54 100-41-4 olluene ND ug/kg 5.4 1 10/22/21 15:02 10/22/21 22:54 100-41-4 olluene ND ug/kg 16.1 1 10/22/21 15:02 10/22/21 22:54 1330-20-7 urrogates olluene-(B (S)) ND ug/kg 16.1 1 10/22/21 15:02 10/22/21 22:54 1330-20-7 urrogates olluene-(B (S)) ND ug/kg 16.1 1 10/22/21 15:02 10/22/21 22:54 1330-20-7 urrogates olluene-(B (S)) ND ug/kg 16.1 1 10/22/21 15:02 10/22/21 22:54 1330-20-7 urrogates olluene-(B (S)) ND 99 % 80-120 1 10/22/21 15:02 10/22/21 22:54 2037-26-5 NB-monofluorobenzene-(S) NB 99 % 83-119 1 10/22/21 15:02 10/22/21 22:54 460-00-4 NB 95 % 80-120 1 10/22/21 15:02 10/22/21 22:54 2199-69-1  ercent Moisture Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City ercent Moisture 3.8 % 0.50 1 10/21/21 16:18  D56 IC Anions Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City hloride ND mg/kg 104 10 10/22/21 16:12 10/23/21 00:35 16887-00-6  ample: SSW-17 Lab ID: 60383828016 Collected: 10/19/21 10:05 Received: 10/21/21 07:30 Matrix: Solid esults 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. Co. D15B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City PH-DRO (C10-C28) ND mg/kg 10.5 1 10/22/21 07:44 10/25/21 12:00		Analytical Meth	hod: EPA 82	60B Preparation Me	thod: E	PA 5035A/5030B			
thylbenzene									
thylbenzene	Ronzono	ND	ua/ka	5.4	1	10/22/21 15:02	10/22/21 22:54	71 /2 2	
ND									
Velene (Total)	•								
Dilune   Solution									
10	,	ND	ug/kg	10.1	'	10/22/21 13.02	10/22/21 22.34	1330-20-7	
### Bromofluorobenzene (S)	_	108	%	80-120	1	10/22/21 15:02	10/22/21 22:54	2037-26-5	
2-Dichlorobenzene-d4 (S)  95 %  80-120 1 10/22/21 15:02 10/22/21 22:54 2199-69-1  ercent Moisture  Analytical Method: ASTM D2974  Pace Analytical Services - Kansas City  ercent Moisture  3.8 %  0.50 1  10/21/21 16:18  D56 IC Anions  Analytical Method: EPA 9056 Preparation Method: EPA 9056  Pace Analytical Services - Kansas City  hloride  ND mg/kg  104 10 10/22/21 16:12 10/23/21 00:35 16887-00-6  ample: 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. Collected: No. Method: EPA 8015B Preparation Method: EPA 3546  Pace Analytical Services - Kansas City  PH-DRO (C10-C28)  ND  mg/kg  10.5 1 10/22/21 07:44 10/25/21 12:00	( )								
Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City  ercent Moisture  3.8 % 0.50 1 10/21/21 16:18  D56 IC Anions  Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City  ND mg/kg 104 10 10/22/21 16:12 10/23/21 00:35 16887-00-6  ample: 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. Collected Services - Kansas City  PH-DRO (C10-C28)  ND mg/kg 10.5 1 10/22/21 07:44 10/25/21 12:00	` ,								
Pace Analytical Services - Kansas City  ercent Moisture  3.8 % 0.50 1 10/21/21 16:18  D56 IC Anions  Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City  hloride  ND mg/kg 104 10 10/22/21 16:12 10/23/21 00:35 16887-00-6  ample: 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. Control of the process of the parameters Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City  PH-DRO (C10-C28)  ND mg/kg 10.5 1 10/22/21 07:44 10/25/21 12:00		Analytical Metl	hod: ASTM F	02974					
Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City  hloride  ND mg/kg  104  10  10/22/21 16:12  10/23/21 00:35  16887-00-6   ample: 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.  On 15B Diesel Range Organics  Analytical Method: EPA 8015B Preparation Method: EPA 3546 Pace Analytical Services - Kansas City  ND  mg/kg  10.5  1  10/22/21 07:44  10/25/21 12:00	Crocint moisture	•							
Pace Analytical Services - Kansas City  hloride  ND mg/kg  104 10 10/22/21 16:12 10/23/21 00:35 16887-00-6  ample: 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.  O15B Diesel Range Organics  Analytical Method: EPA 8015B Preparation Method: EPA 3546  Pace Analytical Services - Kansas City  PH-DRO (C10-C28)  ND mg/kg  10.5 1 10/22/21 07:44 10/25/21 12:00	Percent Moisture	3.8	%	0.50	1		10/21/21 16:18		
Pace Analytical Services - Kansas City  hloride  ND mg/kg  104 10 10/22/21 16:12 10/23/21 00:35 16887-00-6  ample: 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.  O15B Diesel Range Organics  Analytical Method: EPA 8015B Preparation Method: EPA 3546  Pace Analytical Services - Kansas City  PH-DRO (C10-C28)  ND mg/kg  10.5 1 10/22/21 07:44 10/25/21 12:00	9056 IC Anions	Analytical Met	hod. EPA an	56 Preparation Meth	nod: FF	PA 9056			
hloride ND mg/kg 104 10 10/22/21 16:12 10/23/21 00:35 16887-00-6  ample: 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. COMPANDED Preparation Method: EPA 3546  Pace Analytical Method: EPA 8015B Preparation Method: EPA 3546  Pace Analytical Services - Kansas City  PH-DRO (C10-C28) ND mg/kg 10.5 1 10/22/21 07:44 10/25/21 12:00	5030 IC Amons	•		•	10a. Li	A 3030			
ample: 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. Compared Properties Analytical Method: EPA 8015B Preparation Method: EPA 3546  Pace Analytical Services - Kansas City  PH-DRO (C10-C28)  ND mg/kg 10.5 1 10/22/21 07:44 10/25/21 12:00		•		•					
Pesults 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. CONTINUE OF Prepared P									
Pace Analytical Services - Kansas City PH-DRO (C10-C28) ND mg/kg 10.5 1 10/22/21 07:44 10/25/21 12:00	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
Pace Analytical Services - Kansas City PH-DRO (C10-C28) ND mg/kg 10.5 1 10/22/21 07:44 10/25/21 12:00	0045D Discal Dance Occasion	A seek stiered Marti		45D Draw anation Ma	41- a al . [				
PH-DRO (C10-C28) ND mg/kg 10.5 1 10/22/21 07:44 10/25/21 12:00	8015B Diesei Range Organics	-			tnoa: E	PA 3546			
		Pace Analytica	al Services -	Kansas City					
DIL ODO (000 005) 40.5 mg/l/m 40.5 4 40/00/04 07 44 40/05/04 40.00	TPH-DRO (C10-C28)	ND	mg/kg	10.5	1	10/22/21 07:44	10/25/21 12:00		
PH-ORO (C28-C35)	TPH-ORO (C28-C35)	12.5	mg/kg	10.5	1	10/22/21 07:44	10/25/21 12:00		
· ·	Surrogates								
-Tetracosane (S) 76 % 31-152 1 10/22/21 07:44 10/25/21 12:00 646-31-1	n-Tetracosane (S)	76	%	31-152	1	10/22/21 07:44	10/25/21 12:00	646-31-1	
-Terphenyl (S) 69 % 46-130 1 10/22/21 07:44 10/25/21 12:00 92-94-4	o-Terphenyl (S)	69	%	46-130	1	10/22/21 07:44	10/25/21 12:00	92-94-4	
asoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B	Gasoline Range Organics	Analytical Meth	hod: EPA 80	15B Preparation Me	thod: E	EPA 5035A/5030B			
Pace Analytical Services - Kansas City	oucomio Rungo organico	•		·					
PH-GRO ND mg/kg 11.4 1 10/22/21 15:02 10/24/21 00:25	TPH-GRO	ND	ma/ka	11 /	1	10/22/21 15:02	10/24/21 00:25		
PH-GRO ND mg/kg 11.4 1 10/22/21 15:02 10/24/21 00:25		IND	mg/kg	11.4	ı	10/22/21 10.02	10/24/21 00.23		
	•	99	%	63-121	1	10/22/21 15:02	10/24/21 00:25	460-00-4	
urrogates									
urrogates       -Bromofluorobenzene (S)     99     %     63-121     1     10/22/21 15:02 10/24/21 00:25 460-00-4		Analytical Metr	noa: EPA 82		tnoa: E	PA 5035A/5030B			
currogates         99         63-121         1         10/22/21         15:02         10/24/21         00:25         460-00-4           260B MSV 5035A Low Level         Analytical Method: EPA 8260B         Preparation Method: EPA 5035A/5030B	8260B MSV 5035A Low Level								
urrogates       -Bromofluorobenzene (S)     99     %     63-121     1     10/22/21 15:02 10/24/21 00:25 460-00-4			l Services -	Kansas City					
### Page Analytical Services - Kansas City  ###################################	3260B MSV 5035A Low Level	Pace Analytica		•	1	10/22/21 15:02	10/22/21 23:14	71-43-2	
### Parameters  -Bromofluorobenzene (S) 99 % 63-121 1 10/22/21 15:02 10/24/21 00:25 460-00-4	3260B MSV 5035A Low Level Benzene	Pace Analytica ND	ug/kg	5.7					
### Parameters  -Bromofluorobenzene (S) 99 % 63-121 1 10/22/21 15:02 10/24/21 00:25 460-00-4	3260B MSV 5035A Low Level Benzene Ethylbenzene	Pace Analytica ND ND	ug/kg ug/kg	5.7 5.7	1	10/22/21 15:02	10/22/21 23:14	100-41-4	
Personofluorobenzene (S)  99 % 63-121 1 10/22/21 15:02 10/24/21 00:25 460-00-4  260B MSV 5035A Low Level Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City  enzene ND ug/kg 5.7 1 10/22/21 15:02 10/22/21 23:14 71-43-2 thylbenzene ND ug/kg 5.7 1 10/22/21 15:02 10/22/21 23:14 100-41-4 pluene ND ug/kg 5.7 1 10/22/21 15:02 10/22/21 23:14 100-41-4 pluene		Pace Analytica ND ND ND	ug/kg ug/kg ug/kg	5.7 5.7 5.7	1 1	10/22/21 15:02 10/22/21 15:02	10/22/21 23:14 10/22/21 23:14	100-41-4 108-88-3	
### Parameters   P	Benzene Ethylbenzene Toluene	Pace Analytica ND ND ND ND ND	ug/kg ug/kg ug/kg ug/kg	5.7 5.7 5.7 17.0	1 1 1	10/22/21 15:02 10/22/21 15:02 10/22/21 15:02	10/22/21 23:14 10/22/21 23:14 10/22/21 23:14	100-41-4 108-88-3 1330-20-7	

# **REPORT OF LABORATORY ANALYSIS**

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Project:	VGEU 2801-02
Pace Project No.:	60383828

Sample: SSW-17	Lab ID: 603	83828016	Collected: 10/19/2	21 10:05	Received: 10	/21/21 07:30 N	latrix: Solid	
Results reported on a "dry weight	" basis and are adj	usted for pe	rcent moisture, sa	mple s	ize and any dilut	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260B MSV 5035A Low Level	Analytical Meth		OB Preparation Me	thod: E	PA 5035A/5030B			
Surrogates								
4-Bromofluorobenzene (S)	99	%	83-119	1	10/22/21 15:02	10/22/21 23:14	460-00-4	
,2-Dichlorobenzene-d4 (S)	96	%	80-120	1	10/22/21 15:02	10/22/21 23:14	2199-69-1	
Percent Moisture	Analytical Meth	nod: ASTM D	2974					
o. doine in olocaro	Pace Analytica							
Percent Moisture	7.1	%	0.50	1		10/21/21 16:18		
					4 0050			
9056 IC Anions	Analytical Metr		6 Preparation Meth Kansas City	nod: EP	A 9056			
Chloride	117	mg/kg	107	10	10/22/21 16:12	10/23/21 00:53	16887-00-6	
Sample: SSW-18	Lab ID: 603	83828017	Collected: 10/19/2	1 10:15	Received: 10	/21/21 07:30 M	latrix: Solid	
Results reported on a "dry weight							iation. Cond	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
			Report Limit  5B Preparation Me		<u> </u>	Analyzed	CAS No.	- Qua
		nod: EPA 801	5B Preparation Me		<u> </u>	Analyzed	CAS No.	- Qua
3015B Diesel Range Organics	Analytical Meth	nod: EPA 801 Il Services - k	5B Preparation Me Kansas City	thod: E	PA 3546		CAS No.	Qua
3015B Diesel Range Organics	Analytical Meth	nod: EPA 801	5B Preparation Me		PA 3546	Analyzed  10/25/21 12:08 10/25/21 12:08	CAS No.	Qua
GO15B Diesel Range Organics  FPH-DRO (C10-C28)  FPH-ORO (C28-C35)	Analytical Meth Pace Analytica 267	nod: EPA 801 Il Services - k mg/kg	5B Preparation Me Kansas City	thod: E	PA 3546	10/25/21 12:08	CAS No.	Qua
FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates 1-Tetracosane (S)	Analytical Meth Pace Analytica 267 305	nod: EPA 801 I Services - k mg/kg mg/kg %	5B Preparation Me Kansas City 102 102 31-152	10 10 10	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44	10/25/21 12:08 10/25/21 12:08 10/25/21 12:08	646-31-1	S4
GO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35)  Surrogates  n-Tetracosane (S)	Analytical Meth Pace Analytica 267 305	nod: EPA 801 I Services - k mg/kg mg/kg	5B Preparation Me Kansas City 102 102	ethod: E 10 10	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44	10/25/21 12:08 10/25/21 12:08	646-31-1	
GO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)	Analytical Meth Pace Analytica 267 305 0	mod: EPA 801 Il Services - k mg/kg mg/kg % %	5B Preparation Me Kansas City 102 102 31-152	10 10 10 10	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44	10/25/21 12:08 10/25/21 12:08 10/25/21 12:08	646-31-1	S4
GO15B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)  Surrogates  n-Tetracosane (S)  p-Terphenyl (S)	Analytical Meth Pace Analytica 267 305 0	mod: EPA 801 Il Services - k mg/kg mg/kg % % mod: EPA 801	5B Preparation Me (ansas City 102 102 31-152 46-130 5B Preparation Me	10 10 10 10	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44	10/25/21 12:08 10/25/21 12:08 10/25/21 12:08	646-31-1	S4
GO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics	Analytical Meth Pace Analytica 267 305 0 0 Analytical Meth Pace Analytica	mod: EPA 801 Il Services - k mg/kg mg/kg % mod: EPA 801 Il Services - k	5B Preparation Me  Kansas City  102 102 31-152 46-130 5B Preparation Me  Kansas City	10 10 10 10 10 ethod: E	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B	10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/25/21 12:08	646-31-1	S4
FPH-DRO (C10-C28) FPH-DRO (C28-C35) FPH-ORO (C28-C35) FURDER (S) FOR THE TRANSPORT (S) F	Analytical Meth Pace Analytica 267 305 0 0 Analytical Meth	mod: EPA 801 Il Services - k mg/kg mg/kg % % mod: EPA 801	5B Preparation Me (ansas City 102 102 31-152 46-130 5B Preparation Me	10 10 10 10	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B	10/25/21 12:08 10/25/21 12:08 10/25/21 12:08	646-31-1	S4
FPH-GRO  Gonomics  FPH-DRO (C10-C28)  FPH-ORO (C28-C35)  Gurrogates  -Tetracosane (S)  -Terphenyl (S)  Gasoline Range Organics  FPH-GRO  Gurrogates	Analytical Meth Pace Analytica 267 305 0 0 Analytical Meth Pace Analytica	mod: EPA 801 Il Services - k mg/kg mg/kg % mod: EPA 801 Il Services - k	5B Preparation Me  Kansas City  102 102 31-152 46-130 5B Preparation Me  Kansas City	10 10 10 10 10 ethod: E	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B  10/22/21 15:02	10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/25/21 12:08	646-31-1 92-94-4	S4
RO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics  FPH-GRO Surrogates I-Bromofluorobenzene (S)	Analytical Meth Pace Analytica  267 305  0 0 Analytical Meth Pace Analytical Meth Pace Analytical ND	mod: EPA 801 Il Services - k mg/kg mg/kg % hod: EPA 801 Il Services - k mg/kg %	5B Preparation Me (ansas City  102 102 31-152 46-130 5B Preparation Me (ansas City  11.1 63-121	10 10 10 10 10 ethod: E	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B  10/22/21 15:02 10/22/21 15:02	10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/24/21 01:10	646-31-1 92-94-4	S4
RO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics  FPH-GRO Surrogates I-Bromofluorobenzene (S)	Analytical Meth Pace Analytica  267 305  0 0 Analytical Meth Pace Analytical Meth Pace Analytical ND	mod: EPA 801 Il Services - k mg/kg mg/kg % nod: EPA 801 Il Services - k mg/kg %	5B Preparation Me  (ansas City  102 102 31-152 46-130  5B Preparation Me  (ansas City  11.1 63-121	10 10 10 10 10 ethod: E	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B  10/22/21 15:02 10/22/21 15:02	10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/24/21 01:10	646-31-1 92-94-4	S4
GO15B Diesel Range Organics  GPH-DRO (C10-C28) GPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics  GPH-GRO Surrogates 4-Bromofluorobenzene (S)  3260B MSV 5035A Low Level	Analytical Meth Pace Analytica  267 305  0 0 Analytical Meth Pace Analytical ND  97 Analytical Meth Pace Analytical	mod: EPA 801 Il Services - k mg/kg mg/kg % mod: EPA 801 Il Services - k mg/kg %	5B Preparation Me (ansas City  102 102 31-152 46-130 5B Preparation Me (ansas City  11.1 63-121  0B Preparation Me (ansas City	10 10 10 10 10 ethod: E	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B  10/22/21 15:02 PA 5035A/5030B	10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/24/21 01:10	646-31-1 92-94-4 460-00-4	S4
BO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates D-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates I-Bromofluorobenzene (S) B260B MSV 5035A Low Level	Analytical Meth Pace Analytica  267 305  0 0 Analytical Meth Pace Analytical ND  97 Analytical Meth Pace Analytical	mod: EPA 801 Il Services - k mg/kg mg/kg % hod: EPA 801 Il Services - k mg/kg % hod: EPA 826 Il Services - k ug/kg	5B Preparation Me (ansas City  102 102 31-152 46-130 5B Preparation Me (ansas City  11.1 63-121 0B Preparation Me (ansas City  5.6	10 10 10 10 ethod: E	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B  10/22/21 15:02 PA 5035A/5030B  10/22/21 15:02 PA 5035A/5030B	10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/24/21 01:10 10/24/21 01:10	646-31-1 92-94-4 460-00-4 71-43-2	S4
BO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates D-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates I-Bromofluorobenzene (S) B260B MSV 5035A Low Level  Genzene Ethylbenzene	Analytical Meth Pace Analytica  267 305  0 0 Analytical Meth Pace Analytical ND 97 Analytical Meth Pace Analytical ND ND ND	mod: EPA 801 Il Services - k mg/kg mg/kg % hod: EPA 801 Il Services - k mg/kg % hod: EPA 826 Il Services - k ug/kg ug/kg	5B Preparation Me (ansas City  102 102 31-152 46-130 5B Preparation Me (ansas City  11.1 63-121 60B Preparation Me (ansas City  5.6 5.6	10 10 10 10 ethod: E	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B  10/22/21 15:02 PA 5035A/5030B  10/22/21 15:02 PA 5035A/5030B	10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/24/21 01:10 10/24/21 01:10	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4	S4
GO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates D-Tetracosane (S) D-Terphenyl (S) Gasoline Range Organics  FPH-GRO Surrogates I-Bromofluorobenzene (S) G260B MSV 5035A Low Level  Genzene Ethylbenzene Foluene	Analytical Meth Pace Analytica  267 305  0 0 Analytical Meth Pace Analytical ND 97 Analytical Meth Pace Analytical ND ND ND ND	mod: EPA 801 Il Services - k mg/kg mg/kg % hod: EPA 801 Il Services - k mg/kg % hod: EPA 826 Il Services - k ug/kg ug/kg ug/kg	5B Preparation Me (ansas City  102 102 31-152 46-130 5B Preparation Me (ansas City  11.1 63-121 0B Preparation Me (ansas City  5.6 5.6 5.6	10 10 10 10 ethod: E	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B  10/22/21 15:02 PA 5035A/5030B  10/22/21 15:02 PA 5035A/5030B  10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02	10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/24/21 01:10 10/24/21 01:10 10/22/21 23:35 10/22/21 23:35 10/22/21 23:35	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	S4
GO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) FURDER STATE	Analytical Meth Pace Analytica  267 305  0 0 Analytical Meth Pace Analytical ND 97 Analytical Meth Pace Analytical ND ND ND	mod: EPA 801 Il Services - k mg/kg mg/kg % hod: EPA 801 Il Services - k mg/kg % hod: EPA 826 Il Services - k ug/kg ug/kg	5B Preparation Me (ansas City  102 102 31-152 46-130 5B Preparation Me (ansas City  11.1 63-121 60B Preparation Me (ansas City  5.6 5.6	10 10 10 10 ethod: E	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B  10/22/21 15:02 PA 5035A/5030B  10/22/21 15:02 PA 5035A/5030B  10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02	10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/24/21 01:10 10/24/21 01:10	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	S4
GO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 1-Bromofluorobenzene (S)  B260B MSV 5035A Low Level  Genzene Ethylbenzene Foluene Kylene (Total) Surrogates	Analytical Meth Pace Analytica  267 305  0 0 Analytical Meth Pace Analytical ND 97 Analytical Meth Pace Analytical ND ND ND ND	mod: EPA 801 Il Services - k mg/kg mg/kg % hod: EPA 801 Il Services - k mg/kg % hod: EPA 826 Il Services - k ug/kg ug/kg ug/kg	5B Preparation Me (ansas City  102 102 31-152 46-130 5B Preparation Me (ansas City  11.1 63-121 0B Preparation Me (ansas City  5.6 5.6 5.6	10 10 10 10 ethod: E	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B  10/22/21 15:02 10/22/21 15:02 PA 5035A/5030B  10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02	10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/24/21 01:10 10/24/21 01:10 10/22/21 23:35 10/22/21 23:35 10/22/21 23:35	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7	S4
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)  B260B MSV 5035A Low Level  Benzene Ethylbenzene Toluene Xylene (Total) Surrogates Toluene-d8 (S) 4-Bromofluorobenzene (S)	Analytical Meth Pace Analytica  267 305  0 0 Analytical Meth Pace Analytical ND 97 Analytical Meth Pace Analytical ND ND ND ND ND ND ND	mod: EPA 801 Il Services - k mg/kg mg/kg % hod: EPA 801 Il Services - k mg/kg % hod: EPA 826 Il Services - k ug/kg ug/kg ug/kg ug/kg	5B Preparation Me (ansas City  102 102 31-152 46-130 5B Preparation Me (ansas City  11.1 63-121 60B Preparation Me (ansas City  5.6 5.6 5.6 16.7	10 10 10 10 ethod: E	PA 3546  10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 10/22/21 07:44 PA 5035A/5030B  10/22/21 15:02 PA 5035A/5030B  10/22/21 15:02 PA 5035A/5030B  10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02	10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/25/21 12:08 10/24/21 01:10 10/24/21 01:10 10/22/21 23:35 10/22/21 23:35 10/22/21 23:35	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7 2037-26-5	S4

# **REPORT OF LABORATORY ANALYSIS**

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Sample: SSW-18	Lab ID: 603		Collected: 10/19/2				Matrix: Solid	
Results reported on a "dry weight	" basis and are adj	usted for pe	ercent moisture, sa	mple s	ize and any dilut	tions.		
Parameters	Results —	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
Percent Moisture	Analytical Meth Pace Analytica							
Percent Moisture	5.9	%	0.50	1		10/21/21 16:18		
9056 IC Anions	Analytical Meth Pace Analytica		66 Preparation Meth Kansas City	nod: EP	A 9056			
Chloride	308	mg/kg	107	10	10/22/21 16:12	10/23/21 01:11	16887-00-6	
Sample: SSW-19	Lab ID: 603	83828018	Collected: 10/19/2	1 10:25	Received: 10	/21/21 07:30 N	Matrix: Solid	
Results reported on a "dry weight	" basis and are adj	usted for pe	ercent moisture, sa	mple s	ize and any dilut	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8015B Diesel Range Organics	Analytical Meth		5B Preparation Me Kansas City	thod: E	PA 3546			
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		
<b>Surrogates</b> 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		10/25/21 12:24		
Gasoline Range Organics	Analytical Meth Pace Analytica		5B Preparation Me Kansas City	thod: E	PA 5035A/5030B			
TPH-GRO <b>Surrogates</b>	ND	mg/kg	12.6	1	10/22/21 15:02	10/24/21 01:25		
•	99	%	63-121	1	10/22/21 15:02	10/24/21 01:25	460-00-4	
4-Bromofluorobenzene (S)					PA 5035A/5030B			
` '	Analytical Meth			tnoa: E				
3260B MSV 5035A Low Level	Pace Analytica	l Services - h	Kansas City	tnoa: E	10/22/21 15:02	10/22/21 23:54	71-43-2	
8260B MSV 5035A Low Level Benzene						10/22/21 23:54 10/22/21 23:54		
Benzene Ethylbenzene Toluene	Pace Analytica ND	l Services - h ug/kg	Cansas City 6.3	1	10/22/21 15:02		100-41-4	
Benzene Ethylbenzene Toluene Xylene (Total) Surrogates	Pace Analytica ND ND ND ND	I Services - h ug/kg ug/kg ug/kg ug/kg	6.3 6.3 6.3 18.9	1	10/22/21 15:02 10/22/21 15:02 10/22/21 15:02	10/22/21 23:54 10/22/21 23:54 10/22/21 23:54	100-41-4 108-88-3 1330-20-7	
Benzene Ethylbenzene Toluene Xylene (Total) Surrogates Toluene-d8 (S)	Pace Analytica ND ND ND ND ND	I Services - h ug/kg ug/kg ug/kg ug/kg	6.3 6.3 6.3 18.9	1 1 1 1	10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02	10/22/21 23:54 10/22/21 23:54 10/22/21 23:54 10/22/21 23:54	100-41-4 108-88-3 1330-20-7 2037-26-5	
Benzene Ethylbenzene Toluene Xylene (Total) Surrogates Toluene-d8 (S) 4-Bromofluorobenzene (S)	Pace Analytica ND ND ND ND 104 98	I Services - h ug/kg ug/kg ug/kg ug/kg %	6.3 6.3 6.3 18.9 80-120 83-119	1 1 1 1	10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02	10/22/21 23:54 10/22/21 23:54 10/22/21 23:54 10/22/21 23:54 10/22/21 23:54	100-41-4 108-88-3 1330-20-7 2037-26-5 460-00-4	
Benzene Ethylbenzene Toluene Xylene (Total) Surrogates Toluene-d8 (S) 4-Bromofluorobenzene (S) 1,2-Dichlorobenzene-d4 (S)	Pace Analytica ND ND ND ND ND 98 96	I Services - h ug/kg ug/kg ug/kg ug/kg % %	6.3 6.3 6.3 18.9 80-120 83-119 80-120	1 1 1 1	10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02	10/22/21 23:54 10/22/21 23:54 10/22/21 23:54 10/22/21 23:54	100-41-4 108-88-3 1330-20-7 2037-26-5 460-00-4	
Benzene Ethylbenzene Toluene Xylene (Total) Surrogates Toluene-d8 (S) 4-Bromofluorobenzene (S) 1,2-Dichlorobenzene-d4 (S)	Pace Analytica  ND  ND  ND  ND  104  98  96  Analytical Meth	UServices - h ug/kg ug/kg ug/kg ug/kg % %	6.3 6.3 6.3 18.9 80-120 83-119 80-120	1 1 1 1	10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02	10/22/21 23:54 10/22/21 23:54 10/22/21 23:54 10/22/21 23:54 10/22/21 23:54	100-41-4 108-88-3 1330-20-7 2037-26-5 460-00-4	
4-Bromofluorobenzene (S)  8260B MSV 5035A Low Level  Benzene Ethylbenzene Toluene Xylene (Total) Surrogates Toluene-d8 (S) 4-Bromofluorobenzene (S) 1,2-Dichlorobenzene-d4 (S)  Percent Moisture	Pace Analytica ND ND ND ND ND 98 96	UServices - h ug/kg ug/kg ug/kg ug/kg % %	6.3 6.3 6.3 18.9 80-120 83-119 80-120	1 1 1 1	10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02 10/22/21 15:02	10/22/21 23:54 10/22/21 23:54 10/22/21 23:54 10/22/21 23:54 10/22/21 23:54	100-41-4 108-88-3 1330-20-7 2037-26-5 460-00-4 2199-69-1	

# **REPORT OF LABORATORY ANALYSIS**

550

50

4730

mg/kg

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10/22/21 16:12 10/26/21 09:55 16887-00-6

Date: 10/26/2021 04:11 PM

Chloride



#### **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

Blank Reporting Result Limit Qualifiers Parameter Units Analyzed TPH-GRO ND 10.0 10/23/21 19:20 mg/kg % 98 63-121 4-Bromofluorobenzene (S) 10/23/21 19:20

LABORATORY CONTROL SAMPLE: 3008078

LCS LCS Spike % Rec Parameter Units Conc. Result % Rec Limits Qualifiers TPH-GRO mg/kg 50 52.0 104 71-107 4-Bromofluorobenzene (S) 63-121 % 101

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3008079 3008080

Parameter	Units	60383828012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec	RPD	Max RPD	Qual
TPH-GRO 4-Bromofluorobenzene (S)	mg/kg	ND	61.9	61.9	60.2	59.4	96 102	95 101	29-143 63-121	1	26	

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: 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

Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
ug/kg	ND ND	5.0	10/22/21 17:51	
ug/kg	ND	5.0	10/22/21 17:51	
ug/kg	ND	5.0	10/22/21 17:51	
ug/kg	ND	15.0	10/22/21 17:51	
%	96	80-120	10/22/21 17:51	
%	101	83-119	10/22/21 17:51	
%	105	80-120	10/22/21 17:51	
	ug/kg ug/kg ug/kg ug/kg % %	Units Result  ug/kg ND ug/kg ND ug/kg ND ug/kg ND % 96 % 101	Units         Result         Limit           ug/kg         ND         5.0           ug/kg         ND         5.0           ug/kg         ND         5.0           ug/kg         ND         15.0           %         96         80-120           %         101         83-119	Units         Result         Limit         Analyzed           ug/kg         ND         5.0         10/22/21 17:51           ug/kg         ND         5.0         10/22/21 17:51           ug/kg         ND         5.0         10/22/21 17:51           ug/kg         ND         15.0         10/22/21 17:51           %         96         80-120         10/22/21 17:51           %         101         83-119         10/22/21 17:51

LABORATORY CONTROL SAMPLE:	3008654					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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 SP	IKE DUP	LICATE: 3008		MOD	3008656	i						
		60383828018	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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			

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

LABORATORY CONTROL SAMPLE:

QC Batch: 751233 Analysis Method:
QC Batch Method: EPA 3546 Analysis Description:

Analysis Description: EPA 8015B

Laboratory: Pace Analytical Services - Kansas City

EPA 8015B

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

3007800

Associated Lab Samples: 60383828001, 60383828002, 60383828003, 60383828004, 60383828005, 60383828006, 60383828007,

60383828008, 60383828009, 60383828010, 60383828011, 60383828012, 60383828013, 60383828014,

60383828015, 60383828016, 60383828017, 60383828018

		Blank	Reporting		
Parameter	Units	Result	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	

Spike LCS LCS % Rec Parameter Units Conc. Result % 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 MSD MS 60383828001 MS MSD MS MSD Spike Spike % Rec Max Parameter Units Result % Rec % Rec **RPD** RPD Result Conc. Conc. Result Limits Qual TPH-DRO (C10-C28) mg/kg ND 266 273 241 224 81 30-130 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

Blank Reporting

ParameterUnitsResultLimitAnalyzedQualifiersPercent Moisture%ND0.5010/21/21 16:17

SAMPLE DUPLICATE: 3007440

 Parameter
 Units
 60383828002 Result
 Dup Result
 Max RPD
 Max RPD
 Qualifiers

 Percent Moisture
 %
 7.0
 6.9
 1
 20

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.

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#### **QUALITY CONTROL DATA**

Project: VGEU 2801-02 Pace Project No.: 60383828

QC Batch: EPA 9056 751295 Analysis Method: QC Batch Method: **EPA 9056** Analysis Description: 9056 IC Anions

> Pace Analytical Services - Kansas City Laboratory:

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

Blank Reporting Result Limit Qualifiers Parameter Units Analyzed Chloride mg/kg ND 100 10/22/21 17:33

3008042 LABORATORY CONTROL SAMPLE:

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Chloride 500 460 92 80-120 mg/kg

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3008043 3008044

mg/kg

MS MSD 60383828001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD Qual Chloride 2580 542 540 3380 3530 147 80-120 15 M1

SAMPLE DUPLICATE: 3008045

60383828002 Dup Max **RPD** RPD Qualifiers Parameter Units Result Result Chloride 5520 4820 14 15 mg/kg

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.

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



#### **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.

#### REPORT OF LABORATORY ANALYSIS



# **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	Analytica 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
0383828004	FS-17	EPA 3546	751233	EPA 8015B	751425
0383828005	FS-18	EPA 3546	751233	EPA 8015B	751425
0383828006	FS-19	EPA 3546	751233	EPA 8015B	751425
0383828007	FS-20	EPA 3546	751233	EPA 8015B	751425
0383828008	FS-21	EPA 3546	751233	EPA 8015B	751425
0383828009	FS-22	EPA 3546	751233	EPA 8015B	751425
0383828010	FS-1 (5')	EPA 3546	751233	EPA 8015B	751425
0383828011	FS-5 (5')	EPA 3546	751233	EPA 8015B	751425
0383828012	FS-6 (5')	EPA 3546	751233	EPA 8015B	751425
0383828013	SSW-14	EPA 3546	751233	EPA 8015B	751425
0383828014	SSW-15	EPA 3546	751233	EPA 8015B	751425
0383828015	SSW-16	EPA 3546	751233	EPA 8015B	751425
0383828016	SSW-17	EPA 3546	751233	EPA 8015B	751425
0383828017	SSW-18	EPA 3546	751233	EPA 8015B	751425
0383828018	SSW-19	EPA 3546	751233	EPA 8015B	751425
0383828001	FS-14	EPA 5035A/5030B	751305	EPA 8015B	751587
0383828002	FS-15	EPA 5035A/5030B	751305	EPA 8015B	751587
0383828003	FS-16	EPA 5035A/5030B	751305	EPA 8015B	751587
0383828004	FS-17	EPA 5035A/5030B	751305	EPA 8015B	751587
0383828005	FS-18	EPA 5035A/5030B	751305	EPA 8015B	751587
0383828006	FS-19	EPA 5035A/5030B	751305	EPA 8015B	751587
0383828007	FS-20	EPA 5035A/5030B	751305	EPA 8015B	751587
0383828008	FS-21	EPA 5035A/5030B	751305	EPA 8015B	751587
0383828009	FS-22	EPA 5035A/5030B	751305	EPA 8015B	751587
0383828010	FS-1 (5')	EPA 5035A/5030B	751305	EPA 8015B	751587
0383828011	FS-5 (5')	EPA 5035A/5030B	751305	EPA 8015B	751587
0383828012	FS-6 (5')	EPA 5035A/5030B	751305	EPA 8015B	751587
0383828013	SSW-14	EPA 5035A/5030B	751305	EPA 8015B	751587
0383828014	SSW-15	EPA 5035A/5030B	751305	EPA 8015B	751587
0383828015	SSW-16	EPA 5035A/5030B	751305	EPA 8015B	751587
0383828016	SSW-17	EPA 5035A/5030B	751305	EPA 8015B	751587
0383828017	SSW-18	EPA 5035A/5030B	751305	EPA 8015B	751587
0383828018	SSW-19	EPA 5035A/5030B	751305	EPA 8015B	751587
0383828001	FS-14	EPA 5035A/5030B	751459	EPA 8260B	751515
0383828002	FS-15	EPA 5035A/5030B	751459	EPA 8260B	751515
0383828003	FS-16	EPA 5035A/5030B	751459	EPA 8260B	751515
0383828004	FS-17	EPA 5035A/5030B	751459	EPA 8260B	751515
0383828005	FS-18	EPA 5035A/5030B	751459	EPA 8260B	751515
0383828006	FS-19	EPA 5035A/5030B	751459	EPA 8260B	751515
0383828007	FS-20	EPA 5035A/5030B	751459	EPA 8260B	751515
0383828008	FS-21	EPA 5035A/5030B	751459	EPA 8260B	751515
0383828009	FS-22	EPA 5035A/5030B	751459	EPA 8260B	751515
0383828010	FS-1 (5')	EPA 5035A/5030B	751459	EPA 8260B	751515
0383828011	FS-5 (5')	EPA 5035A/5030B	751459	EPA 8260B	751515
0383828012	FS-6 (5')	EPA 5035A/5030B	751459	EPA 8260B	751515

# **REPORT OF LABORATORY ANALYSIS**

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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	Analytica 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
0383828016	SSW-17	EPA 5035A/5030B	751459	EPA 8260B	751515
60383828017	SSW-18	EPA 5035A/5030B	751459	EPA 8260B	751515
0383828018	SSW-19	EPA 5035A/5030B	751459	EPA 8260B	751515
0383828001	FS-14	ASTM D2974	751127		
0383828002	FS-15	ASTM D2974	751127		
0383828003	FS-16	ASTM D2974	751127		
0383828004	FS-17	ASTM D2974	751127		
0383828005	FS-18	ASTM D2974	751127		
0383828006	FS-19	ASTM D2974	751127		
0383828007	FS-20	ASTM D2974	751127		
0383828008	FS-21	ASTM D2974	751127		
0383828009	FS-22	ASTM D2974	751127		
60383828010	FS-1 (5')	ASTM D2974	751127		
0383828011	FS-5 (5')	ASTM D2974	751127		
0383828012	FS-6 (5')	ASTM D2974	751127		
0383828013	SSW-14	ASTM D2974	751127		
0383828014	SSW-15	ASTM D2974	751127		
0383828015	SSW-16	ASTM D2974	751127		
0383828016	SSW-17	ASTM D2974	751127		
0383828017	SSW-18	ASTM D2974	751127		
0383828018	SSW-19	ASTM D2974	751127		
0383828001	FS-14	EPA 9056	751295	EPA 9056	751524
0383828002	FS-15	EPA 9056	751295	EPA 9056	751524
0383828003	FS-16	EPA 9056	751295	EPA 9056	751524
60383828004	FS-17	EPA 9056	751295	EPA 9056	751524
0383828005	FS-18	EPA 9056	751295	EPA 9056	751524
0383828006	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
0383828011	FS-5 (5')	EPA 9056	751295	EPA 9056	751524
0383828012	FS-6 (5')	EPA 9056	751295	EPA 9056	751524
0383828013	SSW-14	EPA 9056	751295	EPA 9056	751524
0383828014	SSW-15	EPA 9056	751295	EPA 9056	751524
0383828015	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

# **REPORT OF LABORATORY ANALYSIS**

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# Sample Condition Upon Receipt



Client Name: 16127604				
Courier: FedEx UPS VIA Clay F	PEX 🗆	EC		Pace □ Xroads □ Client □ Other □
Tracking #: 8168651498 Pac	e Shippin	ıg Lal	bel Use	d? Yes □ No □
Custody Seal on Cooler/Box Present: Yes ☐ No ☐	Seals i	ntact	Yes-E	J No □
Packing Material: Bubble Wrap □ Bubble Bags □		Fo	am 🗆	None ☐ Other ☐
Thermometer Used: 700 Type of	Ice: We	t Bl	lue No	
Cooler Temperature (°C): As-read Corr. Factor	or_0	2	Correc	ted 0 3 Date and initials of person examining contents:
Temperature should be above freezing to 6°C				SELLES GOLD
Chain of Custody present:	Yes	□No	□n/a	-
Chain of Custody relinquished:	Yes	□No	□n/A	
Samples arrived within holding time:	Ves	□No	□N/A	
Short Hold Time analyses (<72hr):	Dies.	No	□n/a	300V/72+12
Rush Turn Around Time requested:	Yes	□No	□n/a	
Sufficient volume:	Yes	□No	□n/a	
Correct containers used:	Yes	□No	□n/a	
Pace containers used:	Yes	□No	□n/a	
Containers intact:	Yes	□No	□n/a	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	□Yes .	□No	N/A	
Filtered volume received for dissolved tests?	□Yes	□No	NIA	
Sample labels match COC: Date / time / ID / analyses	□Yes	No	□N/A	No Labek: Lo Cation on Lede
Samples contain multiple phases? Matrix:	□Yes	□No	□n/a	ONLY DATE NOT
Containers requiring pH preservation in compliance? (HNO₃, H₂SO₄, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide)	□Yes	□No	DIVIA	List sample IDs, volumes, lot #'s of preservative and the date/time added.
(Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#				,
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	□Yes	□No		·
Potassium iodide test strip turns blue/purple? (Preserve)	□Yes	□No		
Trip Blank present:	□Yes	No	□n/a	
Headspace in VOA vials ( >6mm):	□Yes	□No	N/A	
Samples from USDA Regulated Area: State:	□Yes	No	□n/a	NewWelico
Additional labels attached to 5035A / TX1005 vials in the field?	? □Yes	□No	ØN/A	
Client Notification/ Resolution: Copy COC to		Υ	/ N	Field Data Required? Y / N
Person Contacted: Date/T	ime:			
Comments/ Resolution				
Project Manager Review:	-		Date	e:

Received by OCD: 4/6/2022 3:06:55 PM Page 201 of 596 **A2108 H9T** ₽ X RUSH: Same Day 24 hr. 48 hr. 72 hr. Specify Method No.) Anion/Cation Balance 7 Seneral Water Chemistry (see attached list) Special Report Limits or TRRP Report Page: × × × × × × × × Chloride 300.0 × Rush Charges Authorized MAON CB,2 8085 \ 608 3C/MS Semi: Vol. 8270C/625 3535 3500 Standard SC/MS AOI: 82608 / 624 (Circle) HAND DELIVERED FEDEX ANALYSIS REQUIES CLP Semi Volatiles CLP Metals Ag As Ba Cd Cr Pb Se Hg Sample Temperature Metals Ag As Ba Cd Cr Pb Se Hg LAB USE ONLY 0,20 (ORO - ORO - ORO ) M2108 H97 × × × × × × TPH TX1005 (Ext to C35) × × × × BIEX 8260B BTEX 8021B × × × × × FILTERED (Y/N) z Z z z z Z Z Z Z ē Fax (432) 682-901 West Wall Street, Suite 100 Midland, Texas 79701 Email: christian.lluli@tetratech.com # CONTAINERS PRESERVATIVE Time: NONE METHOD Phone: (512) 338-1667 CE × × × × × × × (432) 682-4559 John Thurston ONH Date: 212C-MD-02099 HCF Christian Llull MATRIX × TIOS × × × × × × × **MATER** 10:10 10:15 10:15 10:35 TIME 9:45 10:05 10:25 9:35 9:52 ORIGINAL COPY Sampler Signature: SAMPLING Site Manager: Contact Info: Received by: **EAR: 2021** Received by 10/18/2021 10/18/2021 10/19/2021 10/19/2021 10/19/2021 10/19/2021 10/19/2021 10/19/2021 10/19/2021 Project #: DATE Received Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701 1000 Tetra Tech, Inc. Time: 10/02/ W SAMPLE IDENTIFICATION Analysis Request of Chain of Custody Record to passes of Chain of C Date: SSW-19 (8") SSW-16 SSW-18 SSW-15 SSW-19 FS-5 (5) FS-6 (5') SSW-14 SSW-17 Lea County, New Mexico Conoco Phillips /GEU 2801-02 Pace Analytical COPTETRA Acctnum Receiving Laboratory: roject Location: Religion 32 of 34 telinquished by: Relinquished by roject Name: county, state) Client Name: LAB USE Comments: LAB# ONLY nvoice to:

'Wipe Orinking Water

125mL unpreserved plastic 250mL NaOH, Zn Acetate

100mL unpres amber glass

125mL H2SO4 plastic

125mL HNO3 plastic

Dated: 08/19/2021

; z	SBS	Client:	7	1	\$	100 N		-								<u></u>	Profile #									
2 M 목 축	MeOH (only) BK Kit	Site:															Notes									
Matrix	HG∋∧	DG90 DG9H	NG9N	DG90	BG10	НtəA	UtəA	USĐA	AG3S	U49A	AGSU	UI48	BP2U	DEAB	NIA8	ВРЗИ	BP3F	8638	ВЬЗС	SP3Z	neEn	MGKN	SPLC	DG9M	B690	
																					-					
																					_					
=																										
																					1					
ontainer Codes																										
					G	Glass											Plastic	ţic							Misc	
DG9B	40mL b	40mL bisulfate clear vial	lear via			WGKU	\$	80Z	8oz clear soil jar	oil ar				BP1C		1L NA	1L NAOH plastic	stic			П			Wipe/Swab	wab	
DG9M	40ml A	40ml MeOH clear vial	ar vial	<u>7</u>		WGPU WGPU		202	20z clear soil jar	in 15				BP1N PD40			1L HNO3 plastic	Stic				SP51	f	120mL	120mL Colitorm Na Thiosulfate	osulfate
DG9Q	40mL T	40mL TSP amber vial	r vial			JGFU		40Z (	unpres	erved	4oz unpreserved amber wide	wide		BP10		11 ung	1L unpreserved plastic	ed plas	iţi		1	AF LL	1	Air Filter	oag.	
S690	40mL F	40mL H2SO4 amber vial	nber vi	-		AG00		100r	ש ש	res an	100mL unores amber glass	ISS		BP1Z		1L Na	1L NaOH, Zn Acetate	Acetat	ø			O	-	Air Cassettes	settes	
DG9T	40mL N	40mL Na Thio amber vial	mber vi	<u>a</u>		AG1H	T	1 1 1	ICI am	1L HCl amber glass	SS			BP2C		500mL	500mL NAOH plastic	1 plasti	ا		Ħ	2	Ħ	Terracore Kit	re Kit	
DGBN	40mLa	40mL amber unpreserved	reserv	Pa		AG1S	္တ	1	12SO4	1L H2SO4 amber				BP2N		500mL	500mL HNO3 plastic	3 plastic	0			_	*/	Summa Can	ı Can	
VG9H	40mL F	40mL HCI clear vial	vial			AG1T	_ -	Z   .	la Thic	1L Na Thiosulfate	clear/a	clear/amber glass	Jass	BP2S		500ml	500mL H2SO4 plastic	4 plast	ا ي							
1604	+0111L 1	A IIIO.	eal vic	-		5 5		E E	unpir.	ss ame	Iller unpres amber glass	0		BPZU		monc	SUUML UNDRESERVED Plastic	served	plastic							
V690	40mL u	40mL unpreserved clear viai	ed clea	Nai		AGZN	ء اح	000		C3 am	500mL HNO3 amber glass	SS		BP2Z		200ml	500mL NaOH, Zn Acetate	Zu A	cetate						Matrix	
BG11	1 life III	1liter unbres place	S S			AG30	ی او	250			250ml H2SO4 amber glass	200		3 1		Z SOUTH	250mL NaOH plastic	plastik		Elbon		MATT	-	WA John		
BG3H	250mL	250mL HCL Clear glass	ar glass			AGZU		5000		res an	500ml unpres amber glass	SS		BP3N		250ml	250mL HNO3 plastic - neid mered	plastic	- Tielc	IIITELE		- W	- V	Solid		
BG3U	250mL	250mL Unpres Clear glass	lear gla	SSE		AG3U	5	250n	nL ung	res an	250mL unpres amber glass	ISS		BP3U		250ml	250mL unpreserved plastic	served	plastic			NAL	-	Von-ac	Non-agueous Liguid	
						AG4U		125r	nL ung	res an	125mL unpres amber glass	ISS		BP3S		250mL	250mL H2SO4 plastic	4 plast	<u>ر</u>		Ĭ	OĮ.	_	OIL		
						AG5U		100r	nL ung	100mL unpres am	nber glass	ISS		BP3Z		250mL	250mL NaOH, Zn Acetate	I, Zn A	cetate			WP	_	Wipe		
														BP4U		125mL	125mL unpreserved plastic	served	plastic		Ī	DW		Orinkin	Drinking Water	
														BP4N		125mL	125mL HNO3 plastic	3 plastic	0							
														RP4S		125ml	HOOL	125ml H2SOA plactic	٥							

ENV-FRM-LENE-0001, Rev 01





9608 Loiret Blvd. 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

This Wood

**Enclosures** 







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

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

Illinois Certification #: 004592

#### **REPORT OF LABORATORY ANALYSIS**





# **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

# **REPORT OF LABORATORY ANALYSIS**



# **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
0384132002	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
0384132003	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
0384132004	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
0384132005	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
0384132006	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
0384132007	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
0384132008	SSW-9	EPA 8015B	AHS	4	PASI-K

# **REPORT OF LABORATORY ANALYSIS**



# **SAMPLE ANALYTE COUNT**

Project: 212C-MD-02099
Pace Project No.: 60384132

_ab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	ALH	1	PASI-K
0384132009	SSW-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
0384132010	NSW-12	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
0384132011	NSW-13	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
0384132012	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
0384132013	NSW-15	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
0384132014	NSW-16	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
0384132015	NSW-17	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 8260B	CJC	7	PASI-K
		ASTM D2974	DWC	1	PASI-K

# **REPORT OF LABORATORY ANALYSIS**





# **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**



Project:	212C-MD-02099
Pace Project No.:	60384132

Sample: SSW-20(10')	Lab ID: 603				Received: 10		latrix: Solid	
Results reported on a "dry weight Parameters	" basis and are adj Results	usted for perd Units	ent moisture, sa Report Limit	mple s	ize and any dilut Prepared	tions. Analyzed	CAS No.	Qua
- Tarameters		Office	- Troport Ellinit			- Tilaly 200		
015B Diesel Range Organics	•		3 Preparation Me	thod: E	PA 3546			
	Pace Analytica	l Services - Ka	nsas City					
PH-DRO (C10-C28)	12.2	mg/kg	10.4	1	10/26/21 18:15	10/27/21 12:01		
PH-ORO (C28-C35) <b>Surrogates</b>	18.8	mg/kg	10.4	1	10/26/21 18:15	10/27/21 12:01		
-Tetracosane (S)	74	%	31-152	1		10/27/21 12:01		
-Terphenyl (S)	66	%	46-130	1	10/26/21 18:15	10/27/21 12:01	92-94-4	
Sasoline Range Organics	Analytical Meth Pace Analytica		•	thod: E	PA 5035A/5030B			
FPH-GRO Surrogates	ND	mg/kg	10.9	1	10/26/21 08:27	10/26/21 11:22		
I-Bromofluorobenzene (S)	98	%	63-121	1	10/26/21 08:27	10/26/21 11:22	460-00-4	
260B MSV 5035A Low Level	Analytical Meth Pace Analytica			thod: E	PA 5035A/5030B			
Benzene	ND	ug/kg	5.4	1	10/27/21 11:07	10/27/21 16:28	71-43-2	
thylbenzene	ND	ug/kg	5.4	1	10/27/21 11:07	10/27/21 16:28	100-41-4	
oluene	10.7	ug/kg	5.4	1	10/27/21 11:07	10/27/21 16:28	108-88-3	M1
ylene (Total) t <b>urrogates</b>	ND	ug/kg	16.3	1	10/27/21 11:07	10/27/21 16:28	1330-20-7	
oluene-d8 (S)	104	%	80-120	1		10/27/21 16:28		
-Bromofluorobenzene (S)	103	%	83-119	1		10/27/21 16:28		
,2-Dichlorobenzene-d4 (S)	100	%	80-120	1	10/27/21 11:07	10/27/21 16:28	2199-69-1	
ercent Moisture	Analytical Meth							
	Pace Analytica	l Services - Ka	nsas City					
ercent Moisture	4.5	%	0.50	1		10/26/21 14:29		
056 IC Anions	Analytical Meth	nod: EPA 9056	Preparation Met	nod: EF	PA 9056			
	Pace Analytica	l Services - Ka	nsas 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: 603	<b>84132002</b> C	ollected: 10/20/2	21 08:26	Received: 10	0/25/21 08:50 M	Matrix: Solid	
Results reported on a "dry weight	" basis and are adj	usted for perd	ent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
015B Diesel Range Organics	Analytical Meth		Preparation Me	thod: E			,	
PH-DRO (C10-C28)	ND	mg/kg	10.5	1	10/26/21 18:15	10/27/21 12:42		
PH-ORO (C28-C35)	12.6	mg/kg	10.5	1		10/27/21 12:42		
Surrogates		5 5			_			
n-Tetracosane (S)	94	%	31-152	1		10/27/21 12:42		
o-Terphenyl (S)	77	%	46-130	1	10/26/21 18:15	10/27/21 12:42	92-94-4	

# **REPORT OF LABORATORY ANALYSIS**

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Project:	212C-MD-02099
Pace Project No.:	60384132

Results reported on a "dry weight"	Lab ID. 003	84132002	Collected: 10/20/2	1 08:2	6 Received: 10	/25/21 08:50 N	latrix: Solid	
	" basis and are adj	usted for pe	ercent moisture, sa	mple s	size and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
Gasoline Range Organics	Analytical Meth Pace Analytica		15B Preparation Me Kansas City	thod: E	EPA 5035A/5030B			
TPH-GRO <b>Surrogates</b>	ND	mg/kg	10.7	1	10/26/21 08:27	10/26/21 11:38		
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 Meth Pace Analytica		60B Preparation Me Kansas City	thod: E	EPA 5035A/5030B			
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) <b>Surrogates</b>	ND	ug/kg	16.0	1	10/27/21 11:07	10/27/21 16:49	1330-20-7	
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 Meth Pace Analytica							
Percent Moisture	5.6	%	0.50	1		10/26/21 14:29		
DOEC IC Aminus	Analytical Meth	od: EPA 905	56 Preparation Meth	nod: FF	PA 9056			
BUDD IC ANIONS	Pace Analytica				7.0000			
9056 IC Anions Chloride				10		10/27/21 20:09	16887-00-6	
	Pace Analytica 159  Lab ID: 603: " basis and are adj Results Analytical Meth	mg/kg  84132003  usted for per Units  mod: EPA 80°	Collected: 10/20/2 ercent moisture, sa Report Limit 15B Preparation Me	10 1 08:3 <b>mple s</b> DF	10/27/21 13:57  Received: 10  size and any diluter  Prepared	1/25/21 08:50 M	16887-00-6 Matrix: Solid CAS No.	Qua
Chloride  Sample: SSW-22(10')  Results reported on a "dry weight"  Parameters	Pace Analytica 159 Lab ID: 603 " basis and are adj Results	mg/kg  84132003  usted for per Units  mod: EPA 80°	Collected: 10/20/2 ercent moisture, sa Report Limit 15B Preparation Me	10 1 08:3 <b>mple s</b> DF	10/27/21 13:57  Received: 10  size and any diluter  Prepared	1/25/21 08:50 N	fatrix: Solid	Qua
Chloride  Sample: SSW-22(10')  Results reported on a "dry weight"  Parameters  B015B Diesel Range Organics	Pace Analytica 159  Lab ID: 603: " basis and are adj Results Analytical Meth	mg/kg  84132003  usted for per Units  mod: EPA 80°	Collected: 10/20/2 ercent moisture, sa Report Limit 15B Preparation Me	10 1 08:3 <b>mple s</b> DF	10/27/21 13:57  2 Received: 10  size and any dilute  Prepared  EPA 3546	1/25/21 08:50 N	fatrix: Solid	Qua
Chloride  Sample: SSW-22(10')  Results reported on a "dry weight"  Parameters	Pace Analytica 159  Lab ID: 603: " basis and are adj Results  Analytical Meth Pace Analytica	mg/kg  84132003  usted for pe Units  nod: EPA 80°	Collected: 10/20/2 Precent moisture, sa Report Limit  15B Preparation Me Kansas City	10 8:3 mple s  DF  thod: E	10/27/21 13:57  2 Received: 10  size and any dilust  Prepared  EPA 3546  10/26/21 18:15	0/25/21 08:50 M t <b>ions.</b> Analyzed	fatrix: Solid	Qua
Chloride  Sample: SSW-22(10')  Results reported on a "dry weight"  Parameters  B015B Diesel Range Organics  IPH-DRO (C10-C28)  IPH-ORO (C28-C35)  Surrogates	Pace Analytica 159  Lab ID: 603i " basis and are adj Results  Analytical Meth Pace Analytica	mg/kg  84132003  usted for pe Units  nod: EPA 80° I Services - I mg/kg	Collected: 10/20/2 Precent moisture, sa Report Limit  15B Preparation Me Kansas City  10.2	10 1 08:3  mple s  DF  thod: E	10/27/21 13:57  2 Received: 10  size and any dilute  Prepared  EPA 3546  10/26/21 18:15 10/26/21 18:15	0/25/21 08:50 M tions. Analyzed 10/27/21 12:50	fatrix: Solid  CAS No.	Qua
Chloride  Sample: SSW-22(10')  Results reported on a "dry weight"  Parameters  B015B Diesel Range Organics  IPH-DRO (C10-C28)  IPH-ORO (C28-C35)  Surrogates  n-Tetracosane (S)	Pace Analytica 159  Lab ID: 603i " basis and are adj Results  Analytical Meth Pace Analytica  ND 12.6	mg/kg  84132003  usted for pe Units  nod: EPA 80° I Services - I mg/kg mg/kg	Collected: 10/20/2 Precent moisture, sa Report Limit  15B Preparation Me Kansas City  10.2 10.2	10 1 08:3 mple s DF thod: E	10/27/21 13:57  2 Received: 10  size and any dilus  Prepared  EPA 3546  10/26/21 18:15  10/26/21 18:15	0/25/21 08:50 M tions. Analyzed 10/27/21 12:50 10/27/21 12:50	CAS No.	Qua
Chloride  Sample: SSW-22(10')  Results reported on a "dry weight"  Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)	Pace Analytica 159  Lab ID: 603: " basis and are adj Results  Analytical Meth Pace Analytica ND 12.6 67 72	B4132003 usted for pe Units  nod: EPA 80° I Services - I mg/kg mg/kg mg/kg % hod: EPA 80°	Collected: 10/20/2 Precent moisture, sa Report Limit  15B Preparation Me Kansas City  10.2 10.2 31-152 46-130  15B Preparation Me	10 8:3 mple s DF thod: E	10/27/21 13:57  2 Received: 10  size and any dilute  Prepared  EPA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15	0/25/21 08:50 M tions. Analyzed  10/27/21 12:50 10/27/21 12:50 10/27/21 12:50 10/27/21 12:50	CAS No.	Qua
Chloride  Sample: SSW-22(10')  Results reported on a "dry weight"  Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)  Surrogates  n-Tetracosane (S)  p-Terphenyl (S)	Pace Analytica  159  Lab ID: 603: " basis and are adj Results  Analytical Meth Pace Analytica ND 12.6 67 72 Analytical Meth	B4132003 usted for pe Units  nod: EPA 80° I Services - I mg/kg mg/kg mg/kg % hod: EPA 80°	Collected: 10/20/2 Precent moisture, sa Report Limit  15B Preparation Me Kansas City  10.2 10.2 31-152 46-130  15B Preparation Me	10 8:3 mple s DF thod: E	10/27/21 13:57  2 Received: 10  size and any dilute Prepared  EPA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 EPA 5035A/5030B	0/25/21 08:50 M tions. Analyzed  10/27/21 12:50 10/27/21 12:50 10/27/21 12:50 10/27/21 12:50	CAS No.	Qua

# **REPORT OF LABORATORY ANALYSIS**

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Project:	212C-MD-02099
Pace Project No.:	60384132

Sample: SSW-22(10')	Lab ID: 603	84132003	Collected: 10/20/2	1 08:32	2 Received: 10	/25/21 08:50 N	latrix: Solid	
Results reported on a "dry weight	t" basis and are adj	iusted for per	cent moisture, sa	mple s	ize and any dilut	ions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260B MSV 5035A Low Level	Analytical Meth	nod: EPA 8260	B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica							
Benzene	ND	ug/kg	5.1	1	10/27/21 11:07	10/27/21 17:09	71_//3_2	
Ethylbenzene	ND ND	ug/kg ug/kg	5.1	1		10/27/21 17:09		
Toluene	6.1	ug/kg ug/kg	5.1	1		10/27/21 17:09		
Kylene (Total)	ND	ug/kg ug/kg	15.2	1		10/27/21 17:09		
Surrogates	ND	ug/kg	15.2	'	10/21/21 11.01	10/21/21 17.09	1330-20-7	
Foluene-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 17:09		
,2-Dichlorobenzene-d4 (S)	99	%	80-120	1		10/27/21 17:09		
Percent Moisture	Analytical Metl	nod: ASTM D2	974					
crociit moistare	Pace Analytica							
Percent Moisture	5.5	%	0.50	1		10/26/21 14:29		
9056 IC Anions	Analytical Meth	nnd: EPA 9056	Preparation Meth	nod: FE	νΔ 9056			
5000 IC Allions	Pace Analytica			10a. Li	A 3030			
Chloride	163	mg/kg	104	10		10/27/21 20:21		
Sample: SSW-23(6')	Lab ID: 603	84132004	Collected: 10/20/2	1 08:38	Received: 10	/25/21 08:50 N	latrix: Solid	
. ,							latrix: Solid	
Results reported on a "dry weight	t" basis and are adj	iusted for per	cent moisture, sa	mple s	ize and any dilut	ions.		Опа
. ,							CAS No.	Qua
Results reported on a "dry weight Parameters	t" basis and are adj	usted for per Units	Report Limit	mple s	Prepared	ions.		Qua
Results reported on a "dry weight Parameters	Results Analytical Meth	Units  Hod: EPA 8015	Report Limit  Reparation Me	mple s	Prepared	ions.		Qua
Results reported on a "dry weight Parameters  B015B Diesel Range Organics	Results  Analytical Methors Pace Analytica	Units  Hod: EPA 8015  Al Services - Ka	Report Limit  Begin Preparation Meansas City	DF thod: E	Prepared PA 3546	Analyzed		Qua
Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28)	Results  Analytical Methodo Pace Analytica  11.1	Units  Units  Dod: EPA 8015  Services - Kanng/kg	Report Limit  B Preparation Meansas City  10.1	DF sthod: E	Prepared PA 3546 10/26/21 18:15	Analyzed 10/27/21 12:58		Qua
Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35)	Results  Analytical Methors Pace Analytica	Units  Hod: EPA 8015  Al Services - Ka	Report Limit  Begin Preparation Meansas City	DF thod: E	Prepared PA 3546	Analyzed 10/27/21 12:58		Qua
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35)  Surrogates	Results  Analytical Meth Pace Analytica  11.1  14.3	Units  Units  nod: EPA 8015  Il Services - Ka  mg/kg  mg/kg	Report Limit  BB Preparation Meansas City  10.1 10.1	mple s  DF  thod: E	Prepared  PA 3546  10/26/21 18:15 10/26/21 18:15	Analyzed  10/27/21 12:58 10/27/21 12:58	CAS No.	Qua
Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35)  Surrogates FIEtracosane (S)	Results  Analytical Meth Pace Analytica  11.1 14.3	Units  Hod: EPA 8015  Il Services - Kamg/kg  mg/kg  %	Report Limit  BB Preparation Meansas City  10.1 10.1 31-152	DF ethod: E	Prepared  10/26/21 18:15 10/26/21 18:15	Analyzed  10/27/21 12:58 10/27/21 12:58 10/27/21 12:58	CAS No.	Qua
Results reported on a "dry weight	Results  Analytical Meth Pace Analytica  11.1  14.3	Units  Units  nod: EPA 8015  Il Services - Ka  mg/kg  mg/kg	Report Limit  BB Preparation Meansas City  10.1 10.1	mple s  DF  thod: E	Prepared  10/26/21 18:15 10/26/21 18:15	Analyzed  10/27/21 12:58 10/27/21 12:58	CAS No.	Qua
Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)	Analytical Methodology Pace Analytica 11.1 14.3 63 72	Units  Units  Hod: EPA 8015  Il Services - Kamg/kg  mg/kg  mg/kg	Report Limit  BB Preparation Meansas City  10.1 10.1 31-152	omple so DF othod: E	Prepared  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15	Analyzed  10/27/21 12:58 10/27/21 12:58 10/27/21 12:58	CAS No.	Qua
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S)	Analytical Methodology Pace Analytica 11.1 14.3 63 72	units  units  nod: EPA 8015  Services - Ka  mg/kg  mg/kg  %  %  nod: EPA 8015	Report Limit  Report Limit  BB Preparation Means City  10.1 10.1 31-152 46-130  BB Preparation Me	omple so DF othod: E	Prepared  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15	Analyzed  10/27/21 12:58 10/27/21 12:58 10/27/21 12:58	CAS No.	Qua
Results reported on a "dry weight Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics	Analytical Methodology  Analytical Methodology  Analytical Methodology  11.1  14.3  63  72  Analytical Methodology  Analytical Methodology  Pace Analytical	units  units  nod: EPA 8015  Services - Ka  mg/kg  mg/kg  %  %  nod: EPA 8015	Report Limit  Be Preparation Meansas City  10.1 10.1 31-152 46-130  Be Preparation Meansas City	thod: E	Prepared  PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15	Analyzed  10/27/21 12:58 10/27/21 12:58 10/27/21 12:58 10/27/21 12:58	CAS No.	Qua
Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO	Analytical Methodology  Analytical Methodology  Analytical Methodology  11.1  14.3  63  72  Analytical Methodology	units  units  nod: EPA 8015  Services - Ka  mg/kg  mg/kg  %  %  nod: EPA 8015	Report Limit  Be Preparation Meansas City  10.1 10.1 31-152 46-130  Be Preparation Meansas City	omple so DF othod: E	Prepared  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15	Analyzed  10/27/21 12:58 10/27/21 12:58 10/27/21 12:58 10/27/21 12:58	CAS No.	Qua
Parameters  Results reported on a "dry weight Parameters  RO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates	Results  Analytical Methodology Pace Analytica  11.1  14.3  63  72  Analytical Methodology Pace Analytical Methodology Analytical Methodology Pace Analytical Methodology	units  units  nod: EPA 8015  Il Services - Ka  mg/kg  mg/kg  %  nod: EPA 8015  il Services - Ka  mg/kg	Report Limit  B Preparation Meansas City  10.1 10.1 31-152 46-130 B Preparation Meansas City  10.8	omple s  DF  othod: E  1  1  1  thod: E  thod: E	Prepared  PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 PA 5035A/5030B  10/26/21 08:27	Analyzed  10/27/21 12:58 10/27/21 12:58 10/27/21 12:58 10/27/21 12:58 10/27/21 12:58	CAS No. 646-31-1 92-94-4	Qua
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates	Results  Analytical Meth Pace Analytica  11.1 14.3 63 72 Analytical Meth Pace Analytical Meth Pace Analytical Meth Pace Analytical Meth Pace Analytical ND 98	units  units  nod: EPA 8015  Services - Ka mg/kg mg/kg  %  nod: EPA 8015  Services - Ka mg/kg	Report Limit  Report Limit  BB Preparation Means City  10.1 10.1 31-152 46-130  BB Preparation Means City  10.8 63-121	thod: E	Prepared  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 08:27	Analyzed  10/27/21 12:58 10/27/21 12:58 10/27/21 12:58 10/27/21 12:58	CAS No. 646-31-1 92-94-4	Qua
Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Results  Analytical Meth Pace Analytica  11.1 14.3 63 72 Analytical Meth Pace Analytical Meth Pace Analytical Meth Pace Analytical Meth Pace Analytical ND 98	units  units  nod: EPA 8015  Services - Ka mg/kg mg/kg  %  nod: EPA 8015  Services - Ka mg/kg	Report Limit  B Preparation Meansas City  10.1 10.1 31-152 46-130 B Preparation Meansas City  10.8	thod: E	Prepared  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 08:27	Analyzed  10/27/21 12:58 10/27/21 12:58 10/27/21 12:58 10/27/21 12:58 10/27/21 12:58	CAS No. 646-31-1 92-94-4	Qua
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates F-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates FPH-GRO Surrogates FPH-GRO Surrogates FPH-GRO Surrogates FPH-GRO Surrogates FPH-GRO Surrogates	Results  Analytical Meth Pace Analytica  11.1 14.3 63 72 Analytical Meth Pace Analytical Meth Pace Analytical Meth Pace Analytical Meth Pace Analytical ND 98	units  nod: EPA 8015  Il Services - Ka mg/kg mg/kg % nod: EPA 8015  Il Services - Ka mg/kg mg/kg hod: EPA 8015	Report Limit  Report Limit  B Preparation Means City  10.1 10.1 31-152 46-130  B Preparation Means City  10.8 63-121  B Preparation Means City	thod: E	Prepared  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 08:27	Analyzed  10/27/21 12:58 10/27/21 12:58 10/27/21 12:58 10/27/21 12:58 10/27/21 12:58	CAS No. 646-31-1 92-94-4	Qua
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260B MSV 5035A Low Level	Results  Analytical Methodology Pace Analytica  11.1  14.3  63  72  Analytical Methodology Pace Analytical ND  98  Analytical Methodology Pace Analytical ND  98  Analytical Methodology	units  un	Report Limit Repor	thod: E	Prepared  Prepared  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 08:27 10/26/21 08:27 PA 5035A/5030B	10/27/21 12:58 10/27/21 12:58 10/27/21 12:58 10/27/21 12:58 10/27/21 12:58 10/26/21 12:08	CAS No. 646-31-1 92-94-4	Qua
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates h-Tetracosane (S) b-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates h-Bromofluorobenzene (S)  8260B MSV 5035A Low Level	Analytical Meth Pace Analytical Meth	units  units  units  nod: EPA 8015  Services - Ka mg/kg mg/kg  nod: EPA 8015  Services - Ka mg/kg  nod: EPA 8260  Services - Ka ug/kg	Report Limit Report Limit BB Preparation Meansas City  10.1 10.1 31-152 46-130 BB Preparation Meansas City  10.8 63-121 BB Preparation Meansas City  53 Preparation Meansas City  54 Preparation Meansas City	thod: E	Prepared  Prepared  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 08:27 10/26/21 08:27 10/26/21 08:27 PA 5035A/5030B	10/27/21 12:58 10/27/21 12:58 10/27/21 12:58 10/27/21 12:58 10/27/21 12:58 10/26/21 12:08 10/26/21 12:08	CAS No. 646-31-1 92-94-4 460-00-4	Qua
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates FTetracosane (S) FTe	Results  Analytical Meth Pace Analytical  11.1 14.3 63 72 Analytical Meth Pace Analytical ND 98 Analytical Meth Pace Analytical ND ND ND	units  un	Report Limit Report Limit BB Preparation Meansas City  10.1 10.1 31-152 46-130 BB Preparation Meansas City  10.8 63-121 BB Preparation Meansas City  5.4 5.4	thod: E	PRA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 08:27 10/26/21 08:27 10/26/21 08:27 PA 5035A/5030B  10/27/21 11:07 10/27/21 11:07	10/27/21 12:58 10/27/21 12:58 10/27/21 12:58 10/27/21 12:58 10/27/21 12:58 10/26/21 12:08 10/26/21 12:08	CAS No. 646-31-1 92-94-4 71-43-2 100-41-4	Qua
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates -Tetracosane (S) -Terphenyl (S) Gasoline Range Organics  FPH-GRO Surrogates -Bromofluorobenzene (S) 8260B MSV 5035A Low Level  Genzene Ethylbenzene Foluene	Results  Analytical Meth Pace Analytical  11.1 14.3 63 72 Analytical Meth Pace Analytical ND 98 Analytical Meth Pace Analytical ND ND ND ND 6.7	units  un	Report Limit  Report Limit  BB Preparation Means City  10.1 10.1 31-152 46-130 BB Preparation Means City  10.8 63-121  BB Preparation Means City  5.4 5.4 5.4	thod: E	Prepared  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 08:27 10/26/21 08:27 10/26/21 08:27 PA 5035A/5030B  10/27/21 11:07 10/27/21 11:07 10/27/21 11:07	10/27/21 12:58 10/27/21 12:58 10/27/21 12:58 10/27/21 12:58 10/27/21 12:58 10/26/21 12:08 10/26/21 12:08 10/27/21 17:29 10/27/21 17:29 10/27/21 17:29	CAS No.  646-31-1 92-94-4  71-43-2 100-41-4 108-88-3	Qua
Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)	Results  Analytical Meth Pace Analytical  11.1 14.3 63 72 Analytical Meth Pace Analytical ND 98 Analytical Meth Pace Analytical ND ND ND	units  un	Report Limit Report Limit BB Preparation Meansas City  10.1 10.1 31-152 46-130 BB Preparation Meansas City  10.8 63-121 BB Preparation Meansas City  5.4 5.4	thod: E	Prepared  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 08:27 10/26/21 08:27 10/26/21 08:27 PA 5035A/5030B  10/27/21 11:07 10/27/21 11:07 10/27/21 11:07	10/27/21 12:58 10/27/21 12:58 10/27/21 12:58 10/27/21 12:58 10/27/21 12:58 10/26/21 12:08 10/26/21 12:08	CAS No.  646-31-1 92-94-4  71-43-2 100-41-4 108-88-3	Qua

# **REPORT OF LABORATORY ANALYSIS**

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Project: 212C-MD-02099
Pace Project No.: 60384132

Sample: SSW-23(6')	Lab ID: 603	84132004	Collected: 10/20/2	21 08:38	Received: 10	/25/21 08:50 N	latrix: Solid	
Results reported on a "dry weight	" basis and are adj	iusted for pe	rcent moisture, sa	mple s	ize and any dilut	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260B MSV 5035A Low Level	Analytical Meth	nod: EPA 826	0B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica	l Services - K	Cansas City					
Surrogates								
I-Bromofluorobenzene (S)	103	%	83-119	1	10/27/21 11:07	10/27/21 17:29	460-00-4	
,2-Dichlorobenzene-d4 (S)	100	%	80-120	1	10/27/21 11:07	10/27/21 17:29	2199-69-1	
Percent Moisture	Analytical Meth	nod: ASTM D	2974					
	Pace Analytica							
Percent Moisture	5.6	%	0.50	1		10/26/21 14:29		
056 IC Anions	Analytical Meth	nod: EPA 905	6 Preparation Meth	nod: EP	A 9056			
	Pace Analytica							
Chloride	191	mg/kg	103	10	10/27/21 13:57	10/27/21 20:32	16887-00-6	
		0 0						
Sample: NSW-8(3')	Lab ID: 603	04422005	Collected: 10/20/2	1 00.4	Received: 10	/25/24 00:50 N	latrix: Solid	
Results reported on a "dry weight							iatrix. Soliu	
	•	•	•	-	•			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
			_ <u> </u>		<del>-</del>	Analyzed	CAS No.	Qua
		nod: EPA 801	5B Preparation Me		<del>-</del>	Analyzed	CAS No.	Qua
015B Diesel Range Organics	Analytical Meth	nod: EPA 801 Il Services - K	5B Preparation Me (ansas City	thod: E	PA 3546		CAS No.	Qua
8015B Diesel Range Organics TPH-DRO (C10-C28)	Analytical Meth	nod: EPA 801 Il Services - K mg/kg	5B Preparation Me		PA 3546	Analyzed  10/27/21 13:06 10/27/21 13:06	CAS No.	Qua
B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates	Analytical Meth Pace Analytica	nod: EPA 801 Il Services - K	5B Preparation Me (ansas City	thod: E	PA 3546	10/27/21 13:06	CAS No.	Qua
015B Diesel Range Organics  PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates	Analytical Meth Pace Analytica	nod: EPA 801 Il Services - K mg/kg	5B Preparation Me (ansas City	thod: E	PA 3546  10/26/21 18:15 10/26/21 18:15	10/27/21 13:06		Qua
O15B Diesel Range Organics  PH-DRO (C10-C28) PH-ORO (C28-C35)  Gurrogates -Tetracosane (S)	Analytical Meth Pace Analytica 11.1 14.1	nod: EPA 801 Il Services - K mg/kg mg/kg	5B Preparation Me Cansas City 10.1 10.1	ethod: E	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15	10/27/21 13:06 10/27/21 13:06	646-31-1	Qua
PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates Tetracosane (S) Terphenyl (S)	Analytical Meth Pace Analytica 11.1 14.1 61 68	nod: EPA 801 Il Services - k mg/kg mg/kg % %	5B Preparation Me Cansas City 10.1 10.1 31-152	ethod: E 1 1 1 1	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15	10/27/21 13:06 10/27/21 13:06 10/27/21 13:06 10/27/21 13:06	646-31-1	Qua
GO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35)  Surrogates n-Tetracosane (S) D-Terphenyl (S)	Analytical Meth Pace Analytica 11.1 14.1 61 68	mod: EPA 801 Il Services - K mg/kg mg/kg % %	5B Preparation Me (ansas City  10.1  10.1  31-152  46-130  5B Preparation Me	ethod: E 1 1 1 1	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15	10/27/21 13:06 10/27/21 13:06 10/27/21 13:06 10/27/21 13:06	646-31-1	Qua
PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates I-Tetracosane (S) I-Terphenyl (S) Gasoline Range Organics	Analytical Meth Pace Analytica 11.1 14.1 61 68 Analytical Meth Pace Analytica	mod: EPA 801  Il Services - K  mg/kg  mg/kg  %  hod: EPA 801  Il Services - K	5B Preparation Me Cansas City 10.1 10.1 31-152 46-130 5B Preparation Me Cansas City	ethod: E	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 PA 5035A/5030B	10/27/21 13:06 10/27/21 13:06 10/27/21 13:06 10/27/21 13:06	646-31-1	Qua
PH-DRO (C10-C28) PH-ORO (C28-C35) FH-ORO (C28-C35) FUTOR (C28-C35) FUTOR (C28-C35) FUTOR (C38-C35) FUTOR (C38-	Analytical Meth Pace Analytica 11.1 14.1 61 68 Analytical Meth	mod: EPA 801 Il Services - K mg/kg mg/kg % %	5B Preparation Me (ansas City  10.1  10.1  31-152  46-130  5B Preparation Me	ethod: E 1 1 1 1	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 PA 5035A/5030B	10/27/21 13:06 10/27/21 13:06 10/27/21 13:06 10/27/21 13:06	646-31-1	Qua
PH-DRO (C10-C28) PH-DRO (C28-C35) FH-ORO (C28-C35) FUTORIAL SURFICIAL SURFIC	Analytical Meth Pace Analytica 11.1 14.1 61 68 Analytical Meth Pace Analytica	mod: EPA 801  Il Services - K  mg/kg  mg/kg  %  hod: EPA 801  Il Services - K	5B Preparation Me Cansas City 10.1 10.1 31-152 46-130 5B Preparation Me Cansas City	ethod: E	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 PA 5035A/5030B  10/26/21 08:27	10/27/21 13:06 10/27/21 13:06 10/27/21 13:06 10/27/21 13:06	646-31-1 92-94-4	Qua
O15B Diesel Range Organics  PH-DRO (C10-C28) PH-ORO (C28-C35) Gurrogates -Tetracosane (S) -Terphenyl (S) Gasoline Range Organics PH-GRO Gurrogates -Bromofluorobenzene (S)	Analytical Meth Pace Analytica  11.1 14.1 61 68 Analytical Meth Pace Analytical ND	mod: EPA 801  Il Services - K  mg/kg  mg/kg  %  hod: EPA 801  Il Services - K  mg/kg  %	5B Preparation Me (ansas City  10.1  10.1  31-152  46-130  5B Preparation Me (ansas City  10.1  63-121	thod: E	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 PA 5035A/5030B  10/26/21 08:27 10/26/21 08:27	10/27/21 13:06 10/27/21 13:06 10/27/21 13:06 10/27/21 13:06 10/27/21 12:23 10/26/21 12:23	646-31-1 92-94-4	Qua
PH-DRO (C10-C28) PH-ORO (C28-C35) FH-ORO (C28-C35) FUTTORIO (C38-C35)	Analytical Meth Pace Analytica  11.1 14.1 61 68 Analytical Meth Pace Analytical ND	mod: EPA 801  Il Services - K  mg/kg  mg/kg  %  nod: EPA 801  Il Services - K  mg/kg  %  mod: EPA 826	5B Preparation Me (ansas City  10.1 10.1 31-152 46-130 5B Preparation Me (ansas City  10.1 63-121  0B Preparation Me	thod: E	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 PA 5035A/5030B  10/26/21 08:27 10/26/21 08:27	10/27/21 13:06 10/27/21 13:06 10/27/21 13:06 10/27/21 13:06 10/27/21 12:23 10/26/21 12:23	646-31-1 92-94-4	Qua
PH-DRO (C10-C28) PH-ORO (C28-C35) FH-ORO (C28-C35) FUTTH CALL CONTROL	Analytical Meth Pace Analytica  11.1 14.1 61 68 Analytical Meth Pace Analytica ND 99 Analytical Meth Pace Analytical Meth	mod: EPA 801  Il Services - K  mg/kg  mg/kg  %  mod: EPA 801  Il Services - K  mg/kg  %  mod: EPA 826	5B Preparation Me Cansas City  10.1 10.1 31-152 46-130 5B Preparation Me Cansas City  10.1 63-121  0B Preparation Me Cansas City	thod: E	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 PA 5035A/5030B  10/26/21 08:27 10/26/21 08:27 PA 5035A/5030B	10/27/21 13:06 10/27/21 13:06 10/27/21 13:06 10/27/21 13:06 10/27/21 12:23 10/26/21 12:23	646-31-1 92-94-4 460-00-4	Qua
PH-DRO (C10-C28) PH-DRO (C28-C35) PH-ORO (C28-C35) FUTTH CARD (C38-C35) FUTTH C38-C35	Analytical Meth Pace Analytica  11.1 14.1 61 68 Analytical Meth Pace Analytica ND 99 Analytical Meth Pace Analytical	mod: EPA 801  Il Services - K  mg/kg  mg/kg  %  mod: EPA 801  Il Services - K  mg/kg  %  mod: EPA 826  Il Services - K  ug/kg	5B Preparation Me Cansas City  10.1 10.1 31-152 46-130 5B Preparation Me Cansas City  10.1 63-121  0B Preparation Me Cansas City  5.0	thod: E	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 PA 5035A/5030B  10/26/21 08:27 10/26/21 08:27 PA 5035A/5030B  10/27/21 11:07	10/27/21 13:06 10/27/21 13:06 10/27/21 13:06 10/27/21 13:06 10/27/21 12:23 10/26/21 12:23	646-31-1 92-94-4 460-00-4 71-43-2	Qua
PH-DRO (C10-C28) PH-DRO (C28-C35) PH-ORO (C28-C35) FUTTH CALL CONTROL	Analytical Meth Pace Analytica  11.1 14.1 61 68 Analytical Meth Pace Analytica ND 99 Analytical Meth Pace Analytical ND ND ND	mod: EPA 801  Il Services - K  mg/kg  mg/kg  %  mod: EPA 801  Il Services - K  mg/kg  %  mod: EPA 826  Il Services - K  ug/kg  ug/kg	5B Preparation Me Cansas City  10.1 10.1 31-152 46-130 5B Preparation Me Cansas City  10.1 63-121  0B Preparation Me Cansas City  5.0 5.0	thod: E  1 1 1 1 1 1 1 thod: E	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 PA 5035A/5030B  10/26/21 08:27 10/26/21 08:27 PA 5035A/5030B  10/27/21 11:07 10/27/21 11:07	10/27/21 13:06 10/27/21 13:06 10/27/21 13:06 10/27/21 13:06 10/27/21 12:23 10/26/21 12:23 10/26/21 12:23	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4	Qua
O15B Diesel Range Organics  PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates -Tetracosane (S) -Terphenyl (S) Gasoline Range Organics  PH-GRO Surrogates -Bromofluorobenzene (S) 260B MSV 5035A Low Level Genzene Ethylbenzene Foluene	Analytical Meth Pace Analytica  11.1 14.1 61 68 Analytical Meth Pace Analytica ND 99 Analytical Meth Pace Analytical	mod: EPA 801  Il Services - K  mg/kg  mg/kg  %  mod: EPA 801  Il Services - K  mg/kg  %  mod: EPA 826  Il Services - K  ug/kg	5B Preparation Me Cansas City  10.1 10.1 31-152 46-130 5B Preparation Me Cansas City  10.1 63-121  0B Preparation Me Cansas City  5.0	thod: E	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 PA 5035A/5030B  10/26/21 08:27 10/26/21 08:27 PA 5035A/5030B  10/27/21 11:07 10/27/21 11:07 10/27/21 11:07	10/27/21 13:06 10/27/21 13:06 10/27/21 13:06 10/27/21 13:06 10/27/21 12:23 10/26/21 12:23 10/26/21 12:23	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	Qua
in 15B Diesel Range Organics  IPH-DRO (C10-C28) IPH-ORO (C28-C35) IPH-ORO (C28-C35) IPH-GRO (C28-C35) IPH-GRO (C38-C35)	Analytical Meth Pace Analytica  11.1 14.1 61 68 Analytical Meth Pace Analytical ND 99 Analytical Meth Pace Analytical ND ND ND ND	mod: EPA 801  Il Services - K  mg/kg  mg/kg  %  mod: EPA 801  Il Services - K  mg/kg  wlod: EPA 826  Il Services - K  ug/kg  ug/kg  ug/kg  ug/kg	5B Preparation Me Cansas City  10.1 10.1 31-152 46-130 5B Preparation Me Cansas City  10.1 63-121  0B Preparation Me Cansas City  5.0 5.0 5.0	thod: E	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 PA 5035A/5030B  10/26/21 08:27 10/26/21 08:27 PA 5035A/5030B  10/27/21 11:07 10/27/21 11:07 10/27/21 11:07	10/27/21 13:06 10/27/21 13:06 10/27/21 13:06 10/27/21 13:06 10/27/21 12:23 10/26/21 12:23 10/26/21 12:23 10/27/21 17:49 10/27/21 17:49 10/27/21 17:49 10/27/21 17:49	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7	Qua
GO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates D-Tetracosane (S) D-Terphenyl (S) Gasoline Range Organics  FPH-GRO Surrogates L-Bromofluorobenzene (S) Genzene Ethylbenzene Toluene (Sylene (Total) Surrogates Toluene-d8 (S)	Analytical Meth Pace Analytica  11.1 14.1 61 68 Analytical Meth Pace Analytical ND 99 Analytical Meth Pace Analytical ND	mod: EPA 801  Il Services - K  mg/kg  mg/kg  %  mod: EPA 801  Il Services - K  mg/kg  %  mod: EPA 826  Il Services - K  ug/kg  ug/kg  ug/kg  ug/kg	5B Preparation Me (ansas City  10.1 10.1 31-152 46-130 5B Preparation Me (ansas City  10.1 63-121 0B Preparation Me (ansas City  5.0 5.0 15.1 80-120	thod: E	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 PA 5035A/5030B  10/26/21 08:27 10/26/21 08:27 PA 5035A/5030B  10/27/21 11:07 10/27/21 11:07 10/27/21 11:07 10/27/21 11:07	10/27/21 13:06 10/27/21 13:06 10/27/21 13:06 10/27/21 13:06 10/27/21 13:06 10/26/21 12:23 10/26/21 12:23 10/26/21 17:49 10/27/21 17:49 10/27/21 17:49 10/27/21 17:49	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7 2037-26-5	Qua
Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 4-Bromofluorobenzene (S) B260B MSV 5035A Low Level  Benzene Ethylbenzene Foluene Kylene (Total) Surrogates Foluene-d8 (S) 4-Bromofluorobenzene (S) 1,2-Dichlorobenzene-d4 (S)	Analytical Meth Pace Analytica  11.1 14.1 61 68 Analytical Meth Pace Analytical ND 99 Analytical Meth Pace Analytical ND ND ND ND ND ND ND	mod: EPA 801  Il Services - K  mg/kg  mg/kg  %  mod: EPA 801  Il Services - K  mg/kg  %  mod: EPA 826  Il Services - K  ug/kg  ug/kg  ug/kg  ug/kg	5B Preparation Me (ansas City  10.1 10.1 31-152 46-130 5B Preparation Me (ansas City  10.1 63-121  0B Preparation Me (ansas City  5.0 5.0 15.1	thod: E  1 1 1 1 1 1 thod: E	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 PA 5035A/5030B  10/26/21 08:27 10/26/21 08:27 PA 5035A/5030B  10/27/21 11:07 10/27/21 11:07 10/27/21 11:07 10/27/21 11:07 10/27/21 11:07 10/27/21 11:07	10/27/21 13:06 10/27/21 13:06 10/27/21 13:06 10/27/21 13:06 10/27/21 12:23 10/26/21 12:23 10/26/21 12:23 10/27/21 17:49 10/27/21 17:49 10/27/21 17:49 10/27/21 17:49	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7 2037-26-5 460-00-4	Qua

# **REPORT OF LABORATORY ANALYSIS**

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Project:	212C-MD-02099
Pace Project No.:	60384132

Sample: NSW-8(3')	Lab ID: 603	84132005	Collected: 10/20/2	21 08:44	Received: 10	)/25/21 08:50 <b>I</b>	Matrix: Solid	
Results reported on a "dry weight	" basis and are adj	usted for p	ercent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
Percent Moisture	Analytical Meth	nod: ASTM			•			
crociii moistare	Pace Analytica							
Percent Moisture	5.0	%	0.50	1		10/26/21 14:29	)	
056 IC Anions	Analytical Meth	nod: EDA an	156 Preparation Meth	nod: EB	ν <u>Δ 9056</u>			
1030 IC AIIIOIIS	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: 603	84132006	Collected: 10/20/2	21 08:50	Received: 10	)/25/21 08:50 <b>!</b>	Matrix: Solid	
Results reported on a "dry weight	" basis and are adj	usted for p	ercent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
015B Diesel Range Organics	Analytical Meth	nod: EPA 80	015B Preparation Me	thod: E	PA 3546		-	
	Pace Analytica		·					
PH-DRO (C10-C28)	18.8	mg/kg	10.2	1	10/26/21 18:15	10/27/21 13:14		
PH-ORO (C28-C35)	16.5	mg/kg	10.2	1	10/26/21 18:15	10/27/21 13:14		
Surrogates		0 0						
-Tetracosane (S)	74	%	31-152	1		10/27/21 13:14		
-Terphenyl (S)	82	%	46-130	1	10/26/21 18:15	10/27/21 13:14	92-94-4	
Sasoline Range Organics	Analytical Meth	nod: EPA 80	15B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica	l Services -	Kansas City					
PH-GRO	ND	mg/kg	10.8	1	10/26/21 08:27	10/26/21 13:08	;	
Surrogates								
-Bromofluorobenzene (S)	99	%	63-121	1	10/26/21 08:27	10/26/21 13:08	460-00-4	
260B MSV 5035A Low Level	Analytical Meth	nod: EPA 82	260B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica	l Services -	Kansas City					
Benzene	ND	ug/kg	5.4	1	10/27/21 11:07	10/27/21 18:10	71-43-2	
thylbenzene	ND	ug/kg	5.4	1		10/27/21 18:10		
oluene	6.9	ug/kg	5.4	1		10/27/21 18:10		
(ylene (Total)	ND	ug/kg	16.2	1	10/27/21 11:07	10/27/21 18:10	1330-20-7	
Surrogates		3 0						
oluene-d8 (S)	107	%	80-120	1	10/27/21 11:07	10/27/21 18:10	2037-26-5	
-Bromofluorobenzene (S)	103	%	83-119	1		10/27/21 18:10		
,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	10/27/21 11:07	10/27/21 18:10	2199-69-1	
Percent Moisture	Analytical Meth	nod: ASTM	D2974					
	Pace Analytica	l Services -	Kansas City					
Percent Moisture	4.9	%	0.50	1		10/26/21 14:29	)	
056 IC Anions	Analytical Meth	nod: EPA 90	056 Preparation Meth	nod: EP	A 9056			
	Pace Analytica							
Chloride	217	mg/kg	108	10	10/27/21 13:57	10/27/21 20:55	16887-00-6	
ATTOTIC	211	mg/kg	100	10	10/21/21 13.37	10/21/21 20.00	10001-00-0	

# **REPORT OF LABORATORY ANALYSIS**

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Project:	212C-MD-02099
Pace Project No.:	60384132

Sample: SSW-8	Lab ID: 603	<b>84132007</b> Co	ollected: 10/20/2	21 08:56	Received: 10	)/25/21 08:50 N	latrix: Solid	
Results reported on a "dry weight	" basis and are adj	iusted for perce	ent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
015B Diesel Range Organics	Analytical Meth	nod: EPA 8015B	Preparation Me	ethod: E	PA 3546			
	Pace Analytica	ıl Services - Kar	sas City					
TPH-DRO (C10-C28)	ND	mg/kg	10.1	1	10/26/21 18:15	10/27/21 13:22		
PH-ORO (C28-C35) Surrogates	ND	mg/kg	10.1	1	10/26/21 18:15	10/27/21 13:22		
-Tetracosane (S)	59	%	31-152	1		10/27/21 13:22		
-Terphenyl (S)	68	%	46-130	1	10/26/21 18:15	10/27/21 13:22	92-94-4	
Sasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City							
FPH-GRO Surrogates	ND	mg/kg	10.8	1	10/26/21 08:27	10/26/21 13:23		
4-Bromofluorobenzene (S)	98	%	63-121	1	10/26/21 08:27	10/26/21 13:23	460-00-4	
3260B MSV 5035A Low Level	-	nod: EPA 8260B Il Services - Kar		ethod: E	PA 5035A/5030B			
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	
oluene	12.0	ug/kg	5.4	1	10/27/21 11:07	10/27/21 18:30	108-88-3	
(ylene (Total) <b>Surrogates</b>	ND	ug/kg	16.1	1	10/27/21 11:07	10/27/21 18:30	1330-20-7	
Toluene-d8 (S)	105	%	80-120	1		10/27/21 18:30		
-Bromofluorobenzene (S)	101	%	83-119	1		10/27/21 18:30		
,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	10/27/21 11:07	10/27/21 18:30	2199-69-1	
ercent Moisture		nod: ASTM D29						
	Pace Analytica	ll Services - Kar	sas City					
Percent Moisture	4.4	%	0.50	1		10/26/21 14:29		
056 IC Anions	Analytical Meth	nod: EPA 9056	Preparation Met	hod: EF	PA 9056			
	Pace Analytica	ıl Services - Kar	sas 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: 603	84132008 Co	ollected: 10/20/2	21 09:03	Received: 10	1/25/21 08·50 M	Matrix: Solid	
Results reported on a "dry weight							idilix. Colid	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	•	nod: EPA 8015B Il Services - Kar	Preparation Me	ethod: E	EPA 3546			
PH-DRO (C10-C28)	ND	mg/kg	10.5	1	10/26/21 18:15	10/27/21 13:31		
ГРН-ORO (C28-C35)	ND	mg/kg	10.5	1		10/27/21 13:31		
Surrogates		5 5				_		
n-Tetracosane (S)	64	%	31-152	1	10/26/21 18:15	10/27/21 13:31	646-31-1	
o-Terphenyl (S)	72	%	46-130	1	10/26/21 18:15	10/27/21 13:31	92-94-4	

# **REPORT OF LABORATORY ANALYSIS**

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Project:	212C-MD-02099
Pace Project No.:	60384132

	Lab ID: 603	04132000	Collected: 10/20/2	1 09:0	2 Received: 10	/25/21 08:50 M	fatrix: Solid	
Results reported on a "dry weight'	" basis and are adj	usted for pe	rcent moisture, sa	mple s	size and any dilut	ions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Meth Pace Analytica		5B Preparation Me Kansas City	thod: E	EPA 5035A/5030B			
TPH-GRO <i>Surrogat</i> es	ND	mg/kg	12.0	1	10/26/21 08:27	10/26/21 13:38		
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) <b>Surrogates</b>	ND	ug/kg	17.9	1	10/27/21 11:07	10/27/21 18:50	1330-20-7	
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 Meth Pace Analytica							
Percent Moisture	5.2	%	0.50	1		10/26/21 14:29		
	Analytical Meth	nod: FPA 905	6 Preparation Meth	od: E	PA 9056			
9056 IC Anions	Pace Analytica			iou. Li	7,0000			
				10		10/27/21 21:17	16887-00-6	
Chloride  Sample: SSW-10  Results reported on a "dry weight"  Parameters	Pace Analytica ND Lab ID: 603 " basis and are adj Results	I Services - h mg/kg 84132009 usted for pe Units	Collected: 10/20/2 rcent moisture, sa Report Limit	10 1 09:0 <b>mple</b> s	10/27/21 13:57  8 Received: 10  size and any dilute  Prepared	/25/21 08:50 M	16887-00-6  Matrix: Solid  CAS No.	Qual
Chloride  Sample: SSW-10  Results reported on a "dry weight"  Parameters	Pace Analytica ND Lab ID: 603 " basis and are adj Results	mg/kg  84132009  usted for pe  Units	Collected: 10/20/2 creent moisture, sa Report Limit 5B Preparation Me	10 1 09:0 <b>mple</b> s	10/27/21 13:57  8 Received: 10  size and any dilute  Prepared	/25/21 08:50 N	latrix: Solid	Qual
Chloride  Sample: SSW-10  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics	Pace Analytica ND  Lab ID: 603: " basis and are adj  Results  Analytical Meth	mg/kg  84132009  usted for pe  Units	Collected: 10/20/2 creent moisture, sa Report Limit 5B Preparation Me	10 1 09:0 <b>mple</b> s	10/27/21 13:57  8 Received: 10  Size and any dilute  Prepared  EPA 3546	/25/21 08:50 N	latrix: Solid	Qua
Chloride  Sample: SSW-10  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)	Pace Analytica ND  Lab ID: 603i " basis and are adj Results  Analytical Meth Pace Analytica	Mg/kg  84132009  usted for pe  Units  nod: EPA 801  I Services - F	Collected: 10/20/2 rcent moisture, sa Report Limit 5B Preparation Me Kansas City	10 9:0 mple s  DF  thod: E	10/27/21 13:57  8 Received: 10  size and any dilute Prepared  EPA 3546  10/26/21 18:15	/25/21 08:50 M t <b>ions.</b> Analyzed	latrix: Solid	Qual
Chloride  Sample: SSW-10  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)  Surrogates	Pace Analytica ND  Lab ID: 603i " basis and are adj Results  Analytical Meth Pace Analytica	B4132009  usted for pe  Units  nod: EPA 801 I Services - F  mg/kg	Collected: 10/20/2 creent moisture, sa Report Limit 5B Preparation Me Kansas City 10.1	10 09:0 mple s DF thod: E	10/27/21 13:57  8 Received: 10  Size and any dilute Prepared  EPA 3546  10/26/21 18:15 10/26/21 18:15	/25/21 08:50 M tions. Analyzed 10/27/21 13:39	fatrix: Solid  CAS No.	Qual
Chloride  Sample: SSW-10  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)  Surrogates  n-Tetracosane (S)	Pace Analytica ND  Lab ID: 603i " basis and are adj Results  Analytical Meth Pace Analytica ND ND	B4132009  usted for pe  Units  nod: EPA 801 I Services - h  mg/kg  mg/kg	Collected: 10/20/2 rcent moisture, sa Report Limit 5B Preparation Me Cansas City 10.1 10.1	10 9:0 mple s DF thod: E	10/27/21 13:57  8 Received: 10  Size and any dilute Prepared  EPA 3546  10/26/21 18:15  10/26/21 18:15	/25/21 08:50 M tions. Analyzed  10/27/21 13:39 10/27/21 13:39	CAS No.	Qua
Chloride  Sample: SSW-10  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35)  Surrogates n-Tetracosane (S) p-Terphenyl (S)	Pace Analytica ND  Lab ID: 603: " basis and are adj Results  Analytical Meth Pace Analytica ND ND 61 70	B4132009 usted for pe Units  nod: EPA 801 I Services - k mg/kg mg/kg % hod: EPA 801	Collected: 10/20/2 recent moisture, sa Report Limit  5B Preparation Me Cansas City  10.1 10.1 31-152 46-130  5B Preparation Me	10 9:0 mple s DF thod: E	10/27/21 13:57  8 Received: 10  Size and any dilute Prepared  EPA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15	10/27/21 13:39 10/27/21 13:39 10/27/21 13:39 10/27/21 13:39 10/27/21 13:39	CAS No.	Qua
Chloride  Sample: SSW-10  Results reported on a "dry weight"  Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)	Pace Analytical ND  Lab ID: 603: " basis and are adj Results  Analytical Meth Pace Analytical ND ND 61 70 Analytical Meth	B4132009 usted for pe Units  nod: EPA 801 I Services - k mg/kg mg/kg % hod: EPA 801	Collected: 10/20/2 recent moisture, sa Report Limit  5B Preparation Me Cansas City  10.1 10.1 31-152 46-130  5B Preparation Me	10 9:0 mple s DF thod: E	10/27/21 13:57  8 Received: 10  Size and any dilute  Prepared  EPA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 EPA 5035A/5030B	10/27/21 13:39 10/27/21 13:39 10/27/21 13:39 10/27/21 13:39 10/27/21 13:39	CAS No.	Qual

# **REPORT OF LABORATORY ANALYSIS**

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Project:	212C-MD-02099
Pace Project No.:	60384132

Sample: SSW-10	Lab ID: 603	84132009	Collected: 10/20/2	1 09:08	Received: 10	/25/21 08:50 N	latrix: Solid	
Results reported on a "dry weight	t" basis and are adj	usted for p	ercent moisture, sa	mple s	ize and any dilut	ions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260B MSV 5035A Low Level	Analytical Meth	nod: EPA 82	60B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica	I 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 ND	ug/kg ug/kg	5.1	1		10/27/21 19:10		
Toluene	13.8	ug/kg ug/kg	5.1	1		10/27/21 19:10		
Xylene (Total)	ND	ug/kg ug/kg	15.3	1		10/27/21 19:10		
Surrogates	ND	ug/kg	10.0	'	10/21/21 11:01	10/2//21 10:10	1000 20 7	
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 Meth	nod: ASTM [	D2974					
	Pace Analytica							
Percent Moisture	4.4	%	0.50	1		10/26/21 14:29		
9056 IC Anions	Analytical Meth	nod: FPA 90	56 Preparation Meth	nod: FF	PA 9056			
3030 TO ATTIONS	Pace Analytica		•	10a. Li	71 0000			
Chloride	117	mg/kg	104	10	40/07/04 40-57	10/27/21 21:29	40007.00.0	
Daniela NOW 40	L - L ID . 000	04400040	O-1111 40/04/0	4 00 0	- Danibad 40	/05/04 00 50 N	Lateria Callid	
•	Lab ID: 603		Collected: 10/21/2				latrix: Solid	
Results reported on a "dry weight	t" basis and are adj	usted for p	ercent moisture, sa	mple s	ize and any dilut	ions.		
•							latrix: Solid  CAS No.	Qua
Results reported on a "dry weight Parameters	t" basis and are adj Results	usted for p	Report Limit	mple s	Prepared	ions.		Qua
Results reported on a "dry weight Parameters	Results Analytical Meth	Units On the second sec	Report Limit  15B Preparation Me	mple s	Prepared	ions.		Qua
Results reported on a "dry weight Parameters  8015B Diesel Range Organics	Results  Analytical Methorace Analytica	Units  Hod: EPA 80 Il Services -	Report Limit  15B Preparation Me Kansas City	DF thod: E	Prepared PA 3546	Analyzed		Qua
Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28)	Results  Analytical Meth Pace Analytica  33.7	Units  Hod: EPA 80 Il Services -  mg/kg	Report Limit  15B Preparation Me Kansas City  10.3	mple s  DF  thod: E	Prepared PA 3546 10/26/21 18:15	Analyzed 10/27/21 13:47		Qua
Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)	Results  Analytical Methorace Analytica	Units  Hod: EPA 80 Il Services -	Report Limit  15B Preparation Me Kansas City	DF thod: E	Prepared PA 3546	Analyzed 10/27/21 13:47		Qua
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)  Surrogates	Results  Analytical Meth Pace Analytica  33.7  49.5	Units  Od: EPA 80  I Services -  mg/kg  mg/kg	Report Limit  15B Preparation Me Kansas City  10.3 10.3	mple s  DF  thod: E	Prepared PA 3546 10/26/21 18:15 10/26/21 18:15	Analyzed  10/27/21 13:47 10/27/21 13:47	CAS No.	Qua
Parameters  Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S)	Results  Analytical Meth Pace Analytica  33.7 49.5	Units  Hod: EPA 80  Il Services -  mg/kg  mg/kg	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152	mple s  DF  thod: E	Prepared  10/26/21 18:15 10/26/21 18:15	Analyzed  10/27/21 13:47 10/27/21 13:47 10/27/21 13:47	CAS No.	Qua
Results reported on a "dry weighted Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Analytical Meth Pace Analytica 33.7 49.5	Units  Output  Units	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130	mple s  DF  thod: E	Prepared  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15	Analyzed  10/27/21 13:47 10/27/21 13:47	CAS No.	Qua
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Analytical Meth Pace Analytica 33.7 49.5 77 88 Analytical Meth Analytical Meth Research Analytica Analytical Meth Research Analytical Meth	Units  Hod: EPA 80  I Services -  mg/kg  mg/kg  %  hod: EPA 80	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me	mple s  DF  thod: E	Prepared  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15	Analyzed  10/27/21 13:47 10/27/21 13:47 10/27/21 13:47	CAS No.	Qua
Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Analytical Meth Pace Analytica 33.7 49.5	Units  Hod: EPA 80  I Services -  mg/kg  mg/kg  %  hod: EPA 80	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me	mple s  DF  thod: E	Prepared  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15	Analyzed  10/27/21 13:47 10/27/21 13:47 10/27/21 13:47	CAS No.	Qua
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics	Analytical Meth Pace Analytica 33.7 49.5 77 88 Analytical Meth Analytical Meth Research Analytica Analytical Meth Research Analytical Meth	Units  Hod: EPA 80  I Services -  mg/kg  mg/kg  %  hod: EPA 80	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me	mple s  DF  thod: E	Prepared  PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 20/26/21 18:15 PA 5035A/5030B	Analyzed  10/27/21 13:47 10/27/21 13:47 10/27/21 13:47	CAS No.	Qua
Results reported on a "dry weight Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates	Results  Analytical Meth Pace Analytica  33.7 49.5  77 88  Analytical Meth Pace Analytical Meth Pace Analytical Meth Pace Analytical Meth Pace Analytical Meth	usted for p Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me Kansas City	mple s  DF  thod: E	Prepared  PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 20/26/21 18:15 PA 5035A/5030B	10/27/21 13:47 10/27/21 13:47 10/27/21 13:47 10/27/21 13:47 10/27/21 13:47	CAS No.	Qua
Parameters  Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates	Analytical Methodology Pace Analytica 33.7 49.5 77 88 Analytical Methodology Pace Analytical Methodology	usted for p Units  nod: EPA 80 Il Services - mg/kg mg/kg % hod: EPA 80 Il Services -	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me Kansas City	mple s  DF  thod: E	Prepared  PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 PA 5035A/5030B	10/27/21 13:47 10/27/21 13:47 10/27/21 13:47 10/27/21 13:47 10/27/21 13:47	CAS No. 646-31-1 92-94-4	Qua
Results reported on a "dry weighted Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)	Analytical Methodology Pace Analytical 33.7 49.5 77 88 Analytical Methodology Pace Analytical Methodology Pace Analytical Methodology Pace Analytical ND 98	usted for p Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me Kansas City  10.0	mple s  DF  thod: E  1  1  1  thod: E	Prepared  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 08:27	10/27/21 13:47 10/27/21 13:47 10/27/21 13:47 10/27/21 13:47 10/27/21 13:47	CAS No. 646-31-1 92-94-4	Qua
Results reported on a "dry weighted Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)	Analytical Meth Pace Analytical Meth Pace Analytical Meth Pass Analytical Meth Pace Analytical Meth Pace Analytical Meth Pace Analytical Meth Pace Analytical ND 98	usted for p Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg mg/kg mg/kg	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me Kansas City  10.0 63-121  60B Preparation Me	mple s  DF  thod: E  1  1  1  thod: E	Prepared  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 08:27	10/27/21 13:47 10/27/21 13:47 10/27/21 13:47 10/27/21 13:47 10/27/21 13:47	CAS No. 646-31-1 92-94-4	Qua
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)  B260B MSV 5035A Low Level	Results  Analytical Meth Pace Analytical 33.7 49.5  77 88  Analytical Meth Pace Analytical ND 98  Analytical Meth Pace Analytical ND 98  Analytical Meth Pace Analytical Meth Pace Analytical Meth Pace Analytical Meth	usted for p Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg % and: EPA 82 Il Services -	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me Kansas City  10.0 63-121  60B Preparation Me Kansas City	thod: E	Prepared  Prepared  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 08:27 10/26/21 08:27 PA 5035A/5030B	10/27/21 13:47 10/27/21 13:47 10/27/21 13:47 10/27/21 13:47 10/27/21 13:47	CAS No. 646-31-1 92-94-4	Qua
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S) B260B MSV 5035A Low Level  Benzene	Analytical Meth Pace Analytical ND	units  un	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me Kansas City  10.0 63-121  60B Preparation Me Kansas City  5.0	thod: E  1 1 1 thod: E  1 1 1 thod: E	Prepared  Prepared  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 08:27 10/26/21 08:27 10/26/21 08:27 PA 5035A/5030B	10/27/21 13:47 10/27/21 13:47 10/27/21 13:47 10/27/21 13:47 10/27/21 13:47 10/26/21 14:40 10/26/21 14:40	CAS No. 646-31-1 92-94-4 460-00-4	Qua
Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S) B260B MSV 5035A Low Level  Benzene Ethylbenzene	Analytical Meth Pace Analytical Meth Pace Analytical Meth Pass Analytical Meth Pace Analytical MD ND	usted for p Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg % li Services - ug/kg ug/kg	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me Kansas City  10.0 63-121  60B Preparation Me Kansas City  5.0 5.0	mple s  DF  thod: E  1  1  thod: E  1  thod: E	PRA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 08:27 10/26/21 08:27 10/26/21 08:27 PA 5035A/5030B  10/27/21 11:07 10/27/21 11:07	10/27/21 13:47 10/27/21 13:47 10/27/21 13:47 10/27/21 13:47 10/27/21 13:47 10/26/21 14:40 10/26/21 14:40 10/27/21 19:31 10/27/21 19:31	CAS No.  646-31-1 92-94-4  71-43-2 100-41-4	Qua
Results reported on a "dry weighter Parameters"  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260B MSV 5035A Low Level  Benzene Ethylbenzene Toluene	Results  Analytical Meth Pace Analytical 33.7 49.5  77 88  Analytical Meth Pace Analytical ND 98  Analytical Meth Pace Analytical ND ND ND ND 11.8	usted for p Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg wg/kg ug/kg ug/kg ug/kg	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me Kansas City  10.0 63-121  60B Preparation Me Kansas City  5.0 5.0 5.0	thod: E  thod: E  thod: E  thod: E	PRA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 08:27 10/26/21 08:27 10/26/21 08:27 PA 5035A/5030B  10/27/21 11:07 10/27/21 11:07 10/27/21 11:07	10/27/21 13:47 10/27/21 13:47 10/27/21 13:47 10/27/21 13:47 10/27/21 13:47 10/26/21 14:40 10/26/21 14:40 10/27/21 19:31 10/27/21 19:31 10/27/21 19:31	CAS No.  646-31-1 92-94-4  71-43-2 100-41-4 108-88-3	Qua
Sample: NSW-12 Results reported on a "dry weight Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)  8260B MSV 5035A Low Level  Benzene Ethylbenzene Toluene Xylene (Total) Surrogates	Analytical Meth Pace Analytical Meth Pace Analytical Meth Pass Analytical Meth Pace Analytical MD ND	usted for p Units  nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg % li Services - ug/kg ug/kg	Report Limit  15B Preparation Me Kansas City  10.3 10.3 31-152 46-130  15B Preparation Me Kansas City  10.0 63-121  60B Preparation Me Kansas City  5.0 5.0	mple s  DF  thod: E  1  1  thod: E  1  thod: E	PRA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 08:27 10/26/21 08:27 10/26/21 08:27 PA 5035A/5030B  10/27/21 11:07 10/27/21 11:07 10/27/21 11:07	10/27/21 13:47 10/27/21 13:47 10/27/21 13:47 10/27/21 13:47 10/27/21 13:47 10/26/21 14:40 10/26/21 14:40 10/27/21 19:31 10/27/21 19:31	CAS No.  646-31-1 92-94-4  71-43-2 100-41-4 108-88-3	Qua

### **REPORT OF LABORATORY ANALYSIS**

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Project:	212C-MD-02099
Pace Project No.:	60384132

Sample: NSW-12	Lab ID: 603	84132010	Collected: 10/21/2	1 08:35	Received: 10	0/25/21 08:50 I	Matrix: Solid	
Results reported on a "dry weight	t" basis and are adj	usted for p	ercent moisture, sa	mple si	ze and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260B MSV 5035A Low Level	Analytical Meth	nod: EPA 82	260B Preparation Me	thod: El	PA 5035A/5030B	}		
	Pace Analytica	l Services -	Kansas City					
Surrogates								
4-Bromofluorobenzene (S)	102	%	83-119	1	10/27/21 11:07	10/27/21 19:31	460-00-4	
I,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	10/27/21 11:07	10/27/21 19:31	2199-69-1	
Percent Moisture	Analytical Meth	nod: ASTM	D2974					
	Pace Analytica	l Services -	Kansas City					
Percent Moisture	3.9	%	0.50	1		10/26/21 14:29	)	
9056 IC Anions	Analytical Meth	nod: EPA 90	056 Preparation Meth	nod: EP/	A 9056			
	Pace Analytica							
Chloride	267	mg/kg	102	10	10/27/21 13:57	10/27/21 21:40	16887-00-6	
		0 0						
			0 11		5	/0=/0/ 00 =0		
Sample: NSW-13	Lab ID: 603		Collected: 10/21/2				Matrix: Solid	
Results reported on a "dry weight	r" basis and are adj	usted for p	ercent moisture, sa	mpie si	ze and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
			<u> </u>		· · ·	Analyzed	CAS No.	Qua
	Analytical Meth	nod: EPA 80	15B Preparation Me		· · ·	Analyzed	CAS No.	Qua
3015B Diesel Range Organics	Analytical Meth	nod: EPA 80 I Services -	015B Preparation Me Kansas City	thod: El	PA 3546			Qua
3015B Diesel Range Organics TPH-DRO (C10-C28)	Analytical Meth Pace Analytica 57.0	nod: EPA 80 I Services - mg/kg	015B Preparation Me Kansas City 10.2	thod: El	PA 3546	10/27/21 13:55	<u> </u>	Qua
B015B Diesel Range Organics  FPH-DRO (C10-C28)  FPH-ORO (C28-C35)	Analytical Meth	nod: EPA 80 I Services -	015B Preparation Me Kansas City	thod: El	PA 3546		<u> </u>	Qua
RO15B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)  Surrogates	Analytical Meth Pace Analytica 57.0	nod: EPA 80 I Services - mg/kg	015B Preparation Me Kansas City 10.2	thod: El	PA 3546 10/26/21 18:15 10/26/21 18:15	10/27/21 13:55	;	Qua
RO15B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)  Surrogates  n-Tetracosane (S)	Analytical Meth Pace Analytica 57.0 90.8	nod: EPA 80 I Services - mg/kg mg/kg	015B Preparation Me Kansas City 10.2 10.2	ethod: El	PA 3546  10/26/21 18:15 10/26/21 18:15	10/27/21 13:55 10/27/21 13:55	5 5 6 646-31-1	Qua
GO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)	Analytical Meth Pace Analytica 57.0 90.8 85 89	nod: EPA 80 I Services - mg/kg mg/kg %	10.2 10.2 10.2 10.2 10.2 31-152 46-130	1 1 1 1 1	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15	10/27/21 13:55 10/27/21 13:55 10/27/21 13:55 10/27/21 13:55	5 5 6 646-31-1	Qua
GO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)	Analytical Meth Pace Analytica 57.0 90.8 85 89 Analytical Meth	mod: EPA 80 I Services - mg/kg mg/kg % %	2015B Preparation Me Kansas City 10.2 10.2 10.2 31-152 46-130 2015B Preparation Me	1 1 1 1 1	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15	10/27/21 13:55 10/27/21 13:55 10/27/21 13:55 10/27/21 13:55	5 5 6 646-31-1	Qua
B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics	Analytical Meth Pace Analytica 57.0 90.8 85 89 Analytical Meth Pace Analytica	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services -	10.15B Preparation Me Kansas City 10.2 10.2 10.2 31-152 46-130 115B Preparation Me Kansas City	thod: El	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 PA 5035A/5030B	10/27/21 13:55 10/27/21 13:55 10/27/21 13:55 10/27/21 13:55	6 6 646-31-1 6 92-94-4	Qua
B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates h-Tetracosane (S) h-Terphenyl (S) Gasoline Range Organics  FPH-GRO	Analytical Meth Pace Analytica 57.0 90.8 85 89 Analytical Meth	mod: EPA 80 I Services - mg/kg mg/kg % %	2015B Preparation Me Kansas City 10.2 10.2 10.2 31-152 46-130 2015B Preparation Me	1 1 1 1 1	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 PA 5035A/5030B	10/27/21 13:55 10/27/21 13:55 10/27/21 13:55 10/27/21 13:55	6 6 646-31-1 6 92-94-4	Qua
B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates h-Tetracosane (S) h-Terphenyl (S) Gasoline Range Organics  FPH-GRO Surrogates	Analytical Meth Pace Analytica 57.0 90.8 85 89 Analytical Meth Pace Analytica	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services -	10.15B Preparation Me Kansas City 10.2 10.2 10.2 31-152 46-130 115B Preparation Me Kansas City	thod: El	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 PA 5035A/5030B	10/27/21 13:55 10/27/21 13:55 10/27/21 13:55 10/27/21 13:55	6 6 646-31-1 6 92-94-4	Qua
B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 4-Bromofluorobenzene (S)	Analytical Meth Pace Analytica  57.0 90.8  85 89  Analytical Meth Pace Analytical ND  97	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg %	2015B Preparation Me Kansas City 10.2 10.2 31-152 46-130 2015B Preparation Me Kansas City 10.1 63-121	thod: El	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 PA 5035A/5030B  10/26/21 08:27	10/27/21 13:55 10/27/21 13:55 10/27/21 13:55 10/27/21 13:55 10/27/21 14:55 10/26/21 14:55	6 6 646-31-1 6 92-94-4	Qua
B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 4-Bromofluorobenzene (S)	Analytical Meth Pace Analytica  57.0 90.8  85 89  Analytical Meth Pace Analytical ND 97  Analytical Meth	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg %	260B Preparation Me	thod: El	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 PA 5035A/5030B  10/26/21 08:27	10/27/21 13:55 10/27/21 13:55 10/27/21 13:55 10/27/21 13:55 10/27/21 14:55 10/26/21 14:55	6 6 646-31-1 6 92-94-4	Qua
B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)  B260B MSV 5035A Low Level	Analytical Meth Pace Analytica  57.0 90.8  85 89  Analytical Meth Pace Analytica  ND  97  Analytical Meth Pace Analytical Meth	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg %	10.2 10.2 10.2 10.2 31-152 46-130 015B Preparation Me Kansas City 10.1 63-121 260B Preparation Me Kansas City	thod: El	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 PA 5035A/5030B  10/26/21 08:27 PA 5035A/5030B	10/27/21 13:55 10/27/21 13:55 10/27/21 13:55 10/27/21 13:55 10/26/21 14:55 10/26/21 14:55	6 646-31-1 6 92-94-4 6 460-00-4	Qua
BO15B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S) B260B MSV 5035A Low Level	Analytical Meth Pace Analytica  57.0 90.8  85 89  Analytical Meth Pace Analytica  ND  97  Analytical Meth Pace Analytical Meth	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg % lod: EPA 82 I Services - ug/kg	10.15B Preparation Me Kansas City 10.2 10.2 31-152 46-130 015B Preparation Me Kansas City 10.1 63-121 260B Preparation Me Kansas City 5.1	thod: El 1 1 1 1 thod: El 1 thod: El	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 PA 5035A/5030B  10/26/21 08:27 PA 5035A/5030B	10/27/21 13:55 10/27/21 13:55 10/27/21 13:55 10/27/21 13:55 10/26/21 14:55 10/26/21 14:55	6 646-31-1 6 92-94-4 6 460-00-4 71-43-2	Qua
B015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates I-Bromofluorobenzene (S) B260B MSV 5035A Low Level  Genzene Ethylbenzene	Analytical Meth Pace Analytica  57.0 90.8 85 89 Analytical Meth Pace Analytica ND 97 Analytical Meth Pace Analytical ND ND ND	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg % nod: EPA 82 I Services - ug/kg ug/kg	10.15B Preparation Me Kansas City 10.2 10.2 10.2 31-152 46-130 015B Preparation Me Kansas City 10.1 63-121 060B Preparation Me Kansas City 5.1 5.1	thod: El	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 PA 5035A/5030B  10/26/21 08:27 PA 5035A/5030B  10/26/21 11:07 10/27/21 11:07	10/27/21 13:55 10/27/21 13:55 10/27/21 13:55 10/27/21 13:55 10/26/21 14:55 10/26/21 14:55 10/27/21 19:51	6 646-31-1 6 92-94-4 6 460-00-4 71-43-2 100-41-4	Qua
BO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 1-Bromofluorobenzene (S) B260B MSV 5035A Low Level  Genzene Ethylbenzene Foluene	Analytical Meth Pace Analytica  57.0 90.8 85 89 Analytical Meth Pace Analytica ND 97 Analytical Meth Pace Analytical ND ND ND ND 13.1	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg % nod: EPA 82 I Services - ug/kg ug/kg ug/kg	10.15B Preparation Me Kansas City 10.2 10.2 31-152 46-130 015B Preparation Me Kansas City 10.1 63-121 060B Preparation Me Kansas City 5.1 5.1	thod: El	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 PA 5035A/5030B  10/26/21 08:27 PA 5035A/5030B  10/27/21 11:07 10/27/21 11:07 10/27/21 11:07	10/27/21 13:55 10/27/21 13:55 10/27/21 13:55 10/27/21 13:55 10/27/21 14:55 10/26/21 14:55 10/26/21 14:55 10/27/21 19:51 10/27/21 19:51	6 646-31-1 6 92-94-4 6 460-00-4 71-43-2 100-41-4 108-88-3	Qua
BO15B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S) B260B MSV 5035A Low Level  Benzene Ethylbenzene Toluene Kylene (Total)	Analytical Meth Pace Analytica  57.0 90.8 85 89 Analytical Meth Pace Analytica ND 97 Analytical Meth Pace Analytical ND ND ND	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg % nod: EPA 82 I Services - ug/kg ug/kg	10.15B Preparation Me Kansas City 10.2 10.2 10.2 31-152 46-130 015B Preparation Me Kansas City 10.1 63-121 060B Preparation Me Kansas City 5.1 5.1	thod: El	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 PA 5035A/5030B  10/26/21 08:27 PA 5035A/5030B  10/27/21 11:07 10/27/21 11:07 10/27/21 11:07	10/27/21 13:55 10/27/21 13:55 10/27/21 13:55 10/27/21 13:55 10/26/21 14:55 10/26/21 14:55 10/27/21 19:51	6 646-31-1 6 92-94-4 6 460-00-4 71-43-2 100-41-4 108-88-3	Qua
BO15B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  FPH-GRO Surrogates 1-Bromofluorobenzene (S) B260B MSV 5035A Low Level  Benzene Ethylbenzene Foluene Kylene (Total) Surrogates Surrogates	Analytical Meth Pace Analytica  57.0 90.8 85 89 Analytical Meth Pace Analytical ND 97 Analytical Meth Pace Analytical ND ND ND 13.1 ND	mod: EPA 80 I Services - mg/kg mg/kg % mod: EPA 80 I Services - mg/kg % nod: EPA 82 I Services - ug/kg ug/kg ug/kg ug/kg	10.15B Preparation Me Kansas City  10.2 10.2 10.2 31-152 46-130 015B Preparation Me Kansas City  10.1 63-121 060B Preparation Me Kansas City  5.1 5.1 5.1 15.2	thod: El 1 1 1 1 thod: El 1 1 1 1	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 PA 5035A/5030B  10/26/21 08:27 PA 5035A/5030B  10/27/21 11:07 10/27/21 11:07 10/27/21 11:07	10/27/21 13:55 10/27/21 13:55 10/27/21 13:55 10/27/21 13:55 10/26/21 14:55 10/26/21 14:55 10/26/21 14:55 10/27/21 19:51 10/27/21 19:51 10/27/21 19:51	71-43-2 100-41-4 108-88-3 1330-20-7	Qua
Parameters  8015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)  Gasoline Range Organics  TPH-GRO Surrogates 4-Bromofluorobenzene (S)  8260B MSV 5035A Low Level  Benzene Ethylbenzene Toluene Xylene (Total) Surrogates Toluene-d8 (S) 4-Bromofluorobenzene (S)	Analytical Meth Pace Analytica  57.0 90.8 85 89 Analytical Meth Pace Analytica ND 97 Analytical Meth Pace Analytical ND ND ND ND 13.1	mod: EPA 80 I Services - mg/kg mg/kg % nod: EPA 80 I Services - mg/kg % nod: EPA 82 I Services - ug/kg ug/kg ug/kg	10.15B Preparation Me Kansas City 10.2 10.2 10.2 31-152 46-130 015B Preparation Me Kansas City 10.1 63-121 060B Preparation Me Kansas City 5.1 5.1	thod: El	PA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 10/26/21 18:15 PA 5035A/5030B  10/26/21 08:27 PA 5035A/5030B  10/27/21 11:07 10/27/21 11:07 10/27/21 11:07 10/27/21 11:07	10/27/21 13:55 10/27/21 13:55 10/27/21 13:55 10/27/21 13:55 10/27/21 14:55 10/26/21 14:55 10/26/21 14:55 10/27/21 19:51 10/27/21 19:51	71-43-2 100-41-4 108-88-3 1330-20-7 2037-26-5	Que

### **REPORT OF LABORATORY ANALYSIS**

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212C-MD-02099

60384132

Project:

Pace Project No.:

**Gasoline Range Organics** 

### **ANALYTICAL RESULTS**

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 Prepared Analyzed CAS No. Qual Analytical Method: ASTM D2974 **Percent Moisture** 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 103 10 10/27/21 13:57 10/27/21 21:51 16887-00-6 mg/kg 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 Analytical Method: EPA 8015B Preparation Method: EPA 3546 8015B Diesel Range Organics 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 10/26/21 18:15 10/27/21 14:03 mg/kg 10.2 1 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

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

### TPH-GRO ND mg/kg 11.2 10/26/21 08:27 10/26/21 15:10 Surrogates 4-Bromofluorobenzene (S) 96 63-121 10/26/21 08:27 10/26/21 15:10 460-00-4 Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B 8260B MSV 5035A Low Level Pace Analytical Services - Kansas City ND Benzene ug/kg 5.6 1 10/27/21 11:07 10/27/21 20:11 71-43-2 Ethylbenzene ND ug/kg 5.6 10/27/21 11:07 10/27/21 20:11 100-41-4 Toluene 30.1 ug/kg 5.6 10/27/21 11:07 10/27/21 20:11 108-88-3 Xylene (Total) ND 10/27/21 11:07 10/27/21 20:11 1330-20-7 ug/kg 16.9 Surrogates % 105 10/27/21 11:07 10/27/21 20:11 2037-26-5 Toluene-d8 (S) 80-120 1 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 Analytical Method: ASTM D2974 **Percent Moisture**

Pace Analytical Services - Kansas City

Percent Moisture 6.8 % 0.50 1

**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

Pace Analytical Services - Kansas City

Chloride **1240** mg/kg 108 10 10/27/21 13:57 10/27/21 22:25 16887-00-6

### REPORT OF LABORATORY ANALYSIS

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Project:	212C-MD-02099
Pace Project No.:	60384132

Sample: NSW-15	Lab ID: 603	84132013	Collected: 10/21/2	21 08:54	Received: 10	/25/21 08:50 N	latrix: Solid	
Results reported on a "dry weight"	basis and are ad	justed for p	ercent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8015B Diesel Range Organics	Analytical Met	hod: EPA 80	015B Preparation Me	thod: E	PA 3546			
	Pace Analytica		•					
ГРН-DRO (С10-С28)	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		10/27/21 14:11		
Surrogates								
n-Tetracosane (S)	80	%	31-152	1		10/27/21 14:11		
o-Terphenyl (S)	81	%	46-130	1	10/26/21 18:15	10/27/21 14:11	92-94-4	
Gasoline Range Organics	Analytical Met	hod: EPA 80	15B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica	al Services -	Kansas City					
TPH-GRO	ND	mg/kg	9.9	1	10/26/21 08:27	10/26/21 15:25		
Surrogates				•				
I-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 Met	hod: EPA 82	260B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica							
Benzene	ND		5.0	1	10/27/21 11:07	10/27/21 20:31	71 12 2	
Ethylbenzene	ND ND	ug/kg	5.0 5.0	1		10/27/21 20:31	-	
oluene		ug/kg		1		10/27/21 20:31		
	6.4	ug/kg	5.0					
(ylene (Total) Surrogates	ND	ug/kg	14.9	1	10/27/21 11:07	10/27/21 20:31	1330-20-7	
Foluene-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 20:31		
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1		10/27/21 20:31		
Percent Moisture	Analytical Met	had: ASTM	D2074					
-ercent moisture	Pace Analytica							
Dorgont Mointure	3.6	%	•	4		10/26/21 14:20		
Percent Moisture	3.0	%	0.50	1		10/26/21 14:29		
9056 IC Anions	Analytical Met	hod: EPA 90	56 Preparation Meth	nod: EP	A 9056			
	Pace Analytica	al Services -	Kansas City					
Chloride	ND	mg/kg	104	10	10/27/21 13:57	10/27/21 22:37	16887-00-6	
Comple: NCW 46	Lab ID: 603	04422044	Collected: 10/21/2	1 00.00	Doggived: 40	/25/24 00.50 N	Actrice Calid	
Sample:  NSW-16 Results reported on a "dry weight"							Matrix: Solid	
	_	-		-	-		0404	_
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed 	CAS No.	Qua
8015B Diesel Range Organics	Analytical Met	hod: EPA 80	15B Preparation Me	thod: E	PA 3546			
50 102 2 10001 11ago 0 1 ga00	Pace Analytica							
	45.3	mg/kg	10.1	1	10/26/21 18:15	10/27/21 14:19		
TPH-DRO (C10-C28)		my/kg						
TPH-DRO (C10-C28)		ma/ka	10 1	1		1(1//2///21 1/1/10		
TPH-ORO (C28-C35)	61.8	mg/kg	10.1	1	10/26/21 18:15	10/27/21 14:19		
		mg/kg %	10.1 31-152	1		10/27/21 14:19	646-31-1	

### **REPORT OF LABORATORY ANALYSIS**

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Project:	212C-MD-02099
Pace Project No.:	60384132

	Lab ID. 005	84132014	Collected: 10/21/2	1 09:0	Received: 10	/25/21 08:50 N	latrix: Solid	
Results reported on a "dry weight"	" basis and are adj	usted for pe	rcent moisture, sa	mple s	size and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
Gasoline Range Organics	Analytical Meth Pace Analytica		5B Preparation Me Cansas City	thod: E	EPA 5035A/5030B			
TPH-GRO <b>Surrogates</b>	ND	mg/kg	10.3	1	10/26/21 08:27	10/26/21 15:40		
4-Bromofluorobenzene (S)	97	%	63-121	1	10/26/21 08:27	10/26/21 15:40	460-00-4	
3260B MSV 5035A Low Level	Analytical Meth Pace Analytica		0B Preparation Me Cansas City	thod: E	PA 5035A/5030B			
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) <b>Surrogates</b>	16.2	ug/kg	15.4	1	10/27/21 11:07	10/27/21 20:52	1330-20-7	
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 Meth Pace Analytica							
Percent Moisture	5.7	%	0.50	1		10/26/21 14:29		
	Analytical Moth	od: EDA OOE			0A 00E6			
9056 IC Anions	Pace Analytica		6 Preparation Meth Cansas City	iod: EF	A 9030			
9056 IC Anions Chloride				10d: EF		10/27/21 22:48	16887-00-6	
Chloride  Sample: NSW-17  Results reported on a "dry weight"  Parameters	Pace Analytica ND Lab ID: 603 " basis and are adj Results	Mg/kg mg/kg 84132015 usted for pe Units	Cansas City 110 Collected: 10/21/2	10 1 09:00 <b>mple s</b> DF	10/27/21 13:57  Received: 10  ize and any diluterated	0/25/21 08:50 M	16887-00-6  Matrix: Solid  CAS No.	Qua
Chloride Sample: NSW-17 Results reported on a "dry weight"	Pace Analytica ND Lab ID: 603 " basis and are adj Results	mg/kg  84132015  usted for pe  Units  nod: EPA 801	Collected: 10/21/2 rcent moisture, sa Report Limit 5B Preparation Me	10 1 09:00 <b>mple s</b> DF	10/27/21 13:57  Received: 10  ize and any diluterated	1/25/21 08:50 M	fatrix: Solid	Qua
Chloride  Sample: NSW-17  Results reported on a "dry weight"  Parameters  B015B Diesel Range Organics	Pace Analytica ND  Lab ID: 603: " basis and are adj  Results  Analytical Meth	mg/kg  84132015  usted for pe  Units  nod: EPA 801 I Services - k	Collected: 10/21/2 rcent moisture, sa Report Limit 5B Preparation Me	10 1 09:00 <b>mple s</b> DF	10/27/21 13:57 6 Received: 10 6 Received: 10 6 Prepared FPA 3546	1/25/21 08:50 M	fatrix: Solid	Qua
Chloride  Sample: NSW-17  Results reported on a "dry weight"  Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28)  TPH-ORO (C28-C35)	Pace Analytica ND  Lab ID: 603i " basis and are adj Results  Analytical Meth Pace Analytica	mg/kg  84132015  usted for pe  Units  nod: EPA 801	Collected: 10/21/2 rcent moisture, sa Report Limit 5B Preparation Me Cansas City	10 9:00 mple s  DF  thod: E	10/27/21 13:57 6 Received: 10 7 Rece	n/25/21 08:50 M t <b>ions.</b> Analyzed	fatrix: Solid	Qua
Chloride  Sample: NSW-17 Results reported on a "dry weight" Parameters  S015B Diesel Range Organics  FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates	Pace Analytica ND  Lab ID: 603i " basis and are adj Results  Analytical Meth Pace Analytica 30.1	mg/kg  84132015  usted for pe  Units  nod: EPA 801 I Services - k  mg/kg	Collected: 10/21/2 rcent moisture, sa Report Limit 5B Preparation Me Cansas City 10.3	10 1 09:00 mple s DF thod: E	10/27/21 13:57 6 Received: 10 6 Received: 10 6 Prepared FPA 3546 10/26/21 18:15 10/26/21 18:15	0/25/21 08:50 M tions. Analyzed 10/27/21 14:27	datrix: Solid  CAS No.	Qua
Chloride  Sample: NSW-17 Results reported on a "dry weight" Parameters  S015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates 1-Tetracosane (S)	Pace Analytica ND  Lab ID: 603i " basis and are adj Results  Analytical Meth Pace Analytica 30.1 46.7	mg/kg  84132015  usted for pe  Units  nod: EPA 801 I Services - k  mg/kg  mg/kg	Collected: 10/21/2 rcent moisture, sa Report Limit 5B Preparation Me Cansas City 10.3 10.3	10 9:00 mple s DF thod: E	10/27/21 13:57 6 Received: 10 6 Rece	0/25/21 08:50 M tions. Analyzed 10/27/21 14:27 10/27/21 14:27	datrix: Solid  CAS No.  646-31-1	Qua
Chloride  Sample: NSW-17  Results reported on a "dry weight"  Parameters  B015B Diesel Range Organics  FPH-DRO (C10-C28)	Pace Analytica ND  Lab ID: 603: " basis and are adj Results  Analytical Meth Pace Analytica 30.1 46.7 66 73	B4132015  B4132015  Units  Hod: EPA 801  I Services - k  mg/kg  mg/kg  mg/kg  %  hod: EPA 801	Collected: 10/21/2 rcent moisture, sa Report Limit 5B Preparation Me cansas City 10.3 10.3 31-152 46-130 5B Preparation Me	10 9:00 mple s  DF  thod: E	10/27/21 13:57  6 Received: 10  size and any dilute  Prepared  EPA 3546  10/26/21 18:15 10/26/21 18:15 10/26/21 18:15	0/25/21 08:50 M tions. Analyzed  10/27/21 14:27 10/27/21 14:27 10/27/21 14:27 10/27/21 14:27	datrix: Solid  CAS No.  646-31-1	Qua
Chloride  Sample: NSW-17  Results reported on a "dry weight" Parameters  B015B Diesel Range Organics  TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S)	Pace Analytical ND  Lab ID: 603: " basis and are adj Results  Analytical Meth Pace Analytical 30.1 46.7 66 73 Analytical Meth	B4132015  B4132015  Units  Hod: EPA 801  I Services - k  mg/kg  mg/kg  mg/kg  %  hod: EPA 801	Collected: 10/21/2 rcent moisture, sa Report Limit 5B Preparation Me cansas City 10.3 10.3 31-152 46-130 5B Preparation Me	10 9:00 mple s  DF  thod: E	10/27/21 13:57 6 Received: 10 6 Received: 10 7 Prepared 7 PA 3546 7 10/26/21 18:15 7 10/26/21 18:15 7 10/26/21 18:15 7 10/26/21 18:15	0/25/21 08:50 M tions. Analyzed  10/27/21 14:27 10/27/21 14:27 10/27/21 14:27 10/27/21 14:27	datrix: Solid  CAS No.  646-31-1	Qua

### **REPORT OF LABORATORY ANALYSIS**

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Project: 212C-MD-02099
Pace Project No.: 60384132

Sample: NSW-17	Lab ID: 603	84132015	Collected: 10/21/2	1 09:06	Received: 10	/25/21 08:50 I	Matrix: Solid		
Results reported on a "dry weight	" basis and are adj	usted for p	ercent moisture, sa	mple si	ize and any dilut	tions.			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260B MSV 5035A Low Level	Analytical Meth	nod: EPA 82	60B Preparation Me	thod: El	PA 5035A/5030B				
	Pace Analytica	l Services -	Kansas City						
Benzene	ND	ug/kg	5.4	1	10/27/21 11:07	10/27/21 21:12	2 71-43-2		
Ethylbenzene	ND	ug/kg	5.4	1	10/27/21 11:07	10/27/21 21:12	2 100-41-4		
Toluene	6.1	ug/kg	5.4	1	10/27/21 11:07	10/27/21 21:12	2 108-88-3		
Xylene (Total) <b>Surrogates</b>	ND	ug/kg	16.3	1	10/27/21 11:07	10/27/21 21:12	2 1330-20-7		
Toluene-d8 (S)	105	%	80-120	1	10/27/21 11:07	10/27/21 21:12	2 2037-26-5		
4-Bromofluorobenzene (S)	102	%	83-119	1	10/27/21 11:07	10/27/21 21:12	2 460-00-4		
1,2-Dichlorobenzene-d4 (S)	101	%	80-120	1	10/27/21 11:07	10/27/21 21:12	2 2199-69-1		
Percent Moisture	Analytical Meth	nod: ASTM	D2974						
	Pace Analytical Services - Kansas City								
Percent Moisture	4.4	%	0.50	1		10/26/21 14:30	)		
9056 IC Anions	Analytical Meth	nod: EPA 90	56 Preparation Meth	od: EP/	A 9056				
	Pace Analytica	l Services -	Kansas City						
Chloride	234	mg/kg	108	10	10/27/21 13:57	10/27/21 23:00	16887-00-6		

### **REPORT OF LABORATORY ANALYSIS**

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Project:

212C-MD-02099

Pace Project No.:

60384132

QC Batch: QC Batch Method: 751960

EPA 5035A/5030B

Analysis Method:

EPA 8015B

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

Associated Lab Samples:

TPH-GRO

TPH-GRO

60384132001, 60384132002, 60384132003, 60384132004, 60384132005, 60384132006, 60384132007, 60384132008, 60384132009, 60384132010, 60384132011, 60384132012, 60384132013, 60384132014,

60384132015

Blank Reporting Qualifiers Parameter Units Result Limit Analyzed TPH-GRO ND 10.0 10/26/21 11:07 mg/kg 4-Bromofluorobenzene (S) % 99 63-121 10/26/21 11:07

LABORATORY CONTROL SAMPLE: 3010490

Parameter

4-Bromofluorobenzene (S)

Parameter

4-Bromofluorobenzene (S)

Units

mg/kg

%

60384132005

Result

ND

Units

mg/kg

%

LCS LCS Spike % Rec Conc. Result % Rec Limits Qualifiers 50 51.1 102 71-107 102 63-121

3010492

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

3010491 MS

Spike

Conc.

51.4

MSD Spike MS MSD MS MSD % Rec Max Limits Conc. Result Result % Rec % Rec **RPD** RPD Qual 51.4 53.4 52.8 102 101 29-143 26

103

63-121

102

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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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, 6038414040

60384132015

METHOD BLANK: 3011586 Matrix: Solid

Associated Lab Samples: 60384132001, 60384132002, 60384132003, 60384132004, 60384132005, 60384132006, 60384132007,

60384132008, 60384132009, 60384132010, 60384132011, 60384132012, 60384132013, 60384132014,

60384132015

		Blank	Reporting		
Parameter	Units	Result	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					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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 SP	IKE DUPI	LICATE: 3011	588		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	MD	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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### **REPORT OF LABORATORY ANALYSIS**

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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, 603841404, 6038410404, 603841404, 603841404, 603841404, 603841404, 603841404, 603841404, 603841404, 603841404, 603841404, 603841404, 603841404, 603841404, 603841404, 603841404, 60384140404, 60384140404, 6038414040404, 60384140404, 6038414040404, 6038414040404040404040404040

60384132015

METHOD BLANK: 3010471 Matrix: Solid

Associated Lab Samples: 60384132001, 60384132002, 60384132003, 60384132004, 60384132005, 60384132006, 60384132007,

60384132008, 60384132009, 60384132010, 60384132011, 60384132012, 60384132013, 60384132014,

60384132015

		Blank	Reporting		
Parameter	Units	Result	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		63.0	80	74-124	
n-Tetracosane (S)	%			76	31-152	
p-Terphenyl (S)	%			74	46-130	

MATRIX SPIKE & MATRIX S	PIKE DUPL	LICATE: 3010	473		3010474	•						
			MS	MSD								
		60384132001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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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### **REPORT OF LABORATORY ANALYSIS**

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Project:

212C-MD-02099

Pace Project No.:

60384132

QC Batch: QC Batch Method: 752052

**ASTM D2974** 

Analysis 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, 60384107007, 60384107, 60384107, 60384107, 60384107, 60384107, 60384107, 60384107, 60384107, 60384107, 60384107, 60384107, 60384107, 603860384132008, 60384132009, 60384132010, 60384132011, 60384132012, 60384132013, 60384132014,

60384132015

Blank

Reporting

Parameter

Parameter

Units

Result

Limit

Analyzed

Qualifiers

Percent Moisture

%

ND

0.50 10/26/21 14:28

SAMPLE DUPLICATE: 3010779

50300923001 Result

Dup Result

RPD

Max RPD

Qualifiers

Percent Moisture

Units %

17.4

18.3

5 20

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REPORT OF LABORATORY ANALYSIS

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Project:

212C-MD-02099

Pace Project No.:

60384132

QC Batch: QC Batch Method: 752311

Analysis Method:

EPA 9056

**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

Blank

Reporting

Result

Limit Analyzed Qualifiers

Chloride

Units mg/kg

Units

60383479001

ND

100 10/27/21 11:00

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

3011498

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

80-120

Chloride

mg/kg

500

482

96

Qualifiers

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

3011499

ND

MS

595

MSD

MS

552

60.9J

3011500

MS

MSD

% Rec

Max

Chloride

Units Result mg/kg

Spike Conc.

Spike Conc.

ND

MSD Result

% Rec 81

% Rec Limits

82

15

**RPD** 

RPD Qual 15 0

SAMPLE DUPLICATE:

Parameter

Parameter

3011501

60383479002 Units Result

605

Dup

Result

552

Max

Chloride

mg/kg

Result

**RPD** 

RPD

Qualifiers

80-120

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Pace Analytical www.pacelabs.com

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

### **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.

### **REPORT OF LABORATORY ANALYSIS**

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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	Analytica 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
0384132004	SSW-23(6')	EPA 3546	751958	EPA 8015B	752353
0384132005	NSW-8(3')	EPA 3546	751958	EPA 8015B	752353
0384132006	SSW-7	EPA 3546	751958	EPA 8015B	752353
0384132007	SSW-8	EPA 3546	751958	EPA 8015B	752353
0384132008	SSW-9	EPA 3546	751958	EPA 8015B	752353
0384132009	SSW-10	EPA 3546	751958	EPA 8015B	752353
0384132010	NSW-12	EPA 3546	751958	EPA 8015B	752353
0384132011	NSW-13	EPA 3546	751958	EPA 8015B	752353
0384132012	NSW-14	EPA 3546	751958	EPA 8015B	752353
0384132013	NSW-15	EPA 3546	751958	EPA 8015B	752353
0384132014	NSW-16	EPA 3546	751958	EPA 8015B	752353
0384132015	NSW-17	EPA 3546	751958	EPA 8015B	752353
0384132001	SSW-20(10')	EPA 5035A/5030B	751960	EPA 8015B	752026
0384132002	SSW-21(10')	EPA 5035A/5030B	751960	EPA 8015B	752026
0384132003	SSW-22(10')	EPA 5035A/5030B	751960	EPA 8015B	752026
0384132004	SSW-23(6')	EPA 5035A/5030B	751960	EPA 8015B	752026
0384132005	NSW-8(3')	EPA 5035A/5030B	751960	EPA 8015B	752026
0384132006	SSW-7	EPA 5035A/5030B	751960	EPA 8015B	752026
0384132007	SSW-8	EPA 5035A/5030B	751960	EPA 8015B	752026
0384132008	SSW-9	EPA 5035A/5030B	751960	EPA 8015B	752026
0384132009	SSW-10	EPA 5035A/5030B	751960	EPA 8015B	752026
0384132010	NSW-12	EPA 5035A/5030B	751960	EPA 8015B	752026
0384132011	NSW-13	EPA 5035A/5030B	751960	EPA 8015B	752026
0384132012	NSW-14	EPA 5035A/5030B	751960	EPA 8015B	752026
0384132013	NSW-15	EPA 5035A/5030B	751960	EPA 8015B	752026
0384132014	NSW-16	EPA 5035A/5030B	751960	EPA 8015B	752026
0384132015	NSW-17	EPA 5035A/5030B	751960	EPA 8015B	752026
0384132001	SSW-20(10')	EPA 5035A/5030B	752332	EPA 8260B	752378
0384132002	SSW-21(10')	EPA 5035A/5030B	752332	EPA 8260B	752378
0384132003	SSW-22(10')	EPA 5035A/5030B	752332	EPA 8260B	752378
0384132004	SSW-23(6')	EPA 5035A/5030B	752332	EPA 8260B	752378
0384132005	NSW-8(3')	EPA 5035A/5030B	752332	EPA 8260B	752378
0384132006	SSW-7	EPA 5035A/5030B	752332	EPA 8260B	752378
0384132007	SSW-8	EPA 5035A/5030B	752332	EPA 8260B	752378
0384132008	SSW-9	EPA 5035A/5030B	752332	EPA 8260B	752378
0384132009	SSW-10	EPA 5035A/5030B	752332	EPA 8260B	752378
0384132010	NSW-12	EPA 5035A/5030B	752332	EPA 8260B	752378
0384132011	NSW-13	EPA 5035A/5030B	752332	EPA 8260B	752378
0384132012	NSW-14	EPA 5035A/5030B	752332	EPA 8260B	752378
0384132013	NSW-15	EPA 5035A/5030B	752332	EPA 8260B	752378
0384132014	NSW-16	EPA 5035A/5030B	752332	EPA 8260B	752378
0384132015	NSW-17	EPA 5035A/5030B	752332	EPA 8260B	752378
0384132001	SSW-20(10')	ASTM D2974	752052		
0384132002	SSW-21(10')	ASTM D2974	752052		

### **REPORT OF LABORATORY ANALYSIS**

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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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### Sample Condition Upon Receipt



Client Name: Tetra Tech Inc		
Courier: FedEx DUPS UPS VIA Clay F	PEX 🗆 ECI 🗆	Pace ☐ Xroads ☐ Client ☐ Other ☐
Tracking #: Pace	e Shipping Label Use	d? Yes 🗓 No 🗷
Custody Seal on Cooler/Box Present: YesX No □	Seals intact: Yes	<b>⊉</b> No □
Packing Material: Bubble Wrap 🛣 Bubble Bags 🕏	<b>K</b> Foam □	None ☐ Other ☐
Thermometer Used: T-299 Type of	Ice: Wet Blue No	
Cooler Temperature (°C): As-read 1.5 Corr. Factor	or -0. 2 Correc	ited \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Temperature should be above freezing to 6°C		(0-25-2)
Chain of Custody present:	ZÎYes □No □N/A	
Chain of Custody relinquished:	ØYes □No □N/A	
Samples arrived within holding time:	⊠Yes □No □N/A	72 HOUR RUSH!
Short Hold Time analyses (<72hr):	□Yes ZÎNo □N/A	
Rush Turn Around Time requested:	Yes Div ON/A	
Sufficient volume:	□Yes ØNo □N/A	(1) 402 per Sumple
Correct containers used:	Yes Ono On/A	1,
Pace containers used:	□Yes ØNo □N/A	
Containers intact:	XYes □No □N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	□Yes □No ØN/A	
Filtered volume received for dissolved tests?	□Yes □No ∕N/A	
Sample labels match COC: Date / time / ID / analyses	ØŶes □No □N/A	
Samples contain multiple phases? Matrix: 5 🗠	□Yes DÎNo □N/A	
Containers requiring pH preservation in compliance? (HNO₃, H₂SO₄, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide)	□Yes □No ØN/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
(Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#		
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	□Yes □No	
Potassium iodide test strip turns blue/purple? (Preserve)	□Yes □No	
Trip Blank present:	□Yes ØNo □N/A	
Headspace in VOA vials ( >6mm):	□Yes □No ØN/A	
Samples from USDA Regulated Area: State:	□Yes ØNo □N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	□Yes □No ☑N/A	
Client Notification/ Resolution: Copy COC to		Field Data Required? Y / N
Person Contacted: Date/Ti	me:	
Comments/ Resolution:		
Project Manager Review:	Dat	e:

Received by OCD: 4/6/2022 3:06:55 PM Page 232 of 596 ō PH 8015R Circle or Specify Method No.) 72 hr. Anion/Cation Balance Page: 1 Seneral Water Chemistry (see attached list) Special Report Limits or TRRP Report X RUSH: Same Day 24 hr. 48 hr SQT Sulfate Chloride 300.0 × × × × × × × × × (Circle) HAND DELIVERED (FEDEX) UPS Tracking # (sotsedsA) MJ Rush Charges Authorized MAON CB.2 8082 \ 608 GC/MS Seml. Vol. 8270C/625 Standard SCMS VOL 8260B / 624 **ANALYSIS REQUEST ICLP Semi Volatiles** CLP Metals Ag As Ba Cd Cr Pb Se Hg Metals Ag As Ba Cd Cr Pb Se Hg Sample Temperature LAB USE ONLY PAH 8270C (ORM - ORO - ORO - MR108) H9T 3.0 × × × × × × × × × (PH TX1005 (Ext to C35) BTEX 82608 BTEX 8021B × × × × × × × × × × FILTERED (Y/N) z Z z z z z z z z z ē Fax (432) 682-901 West Wall Street, Suite 100 Email: christian.llull@tetratech.com OK STO # CONTAINERS PRESERVATIVE Midland, Texas 79701 Time: METHOD Phone: (512) 338-1667 NONE 1050/01 ICE × × × × × (432) 682-4559 × × × × × John Thurston CONH 212C-MD-02099 Date: Date: Christian Llull HCF MATRIX TIOS × × × × × × × × × × **MATER** TIME 421PF 8:20 8:26 8:32 Sampler Signature: 8:38 8:44 8:50 8:56 9:02 9:08 8:35 ORIGINAL COPY SAMPLING Site Manager: Contact Info: EAR: 2021 10/20/2021 10/21/2021 Received by: 10/20/2021 10/20/2021 Received by: Received by: Project # 10/20/2021 10/20/2021 10/20/2021 10/20/2021 10/20/2021 10/20/2021 DATE Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701 1500 Tetra Tech, Inc. Time: Tme: SAMPLE IDENTIFICATION 19/24/01 Analysis Request of Chain of Custody Record SSW-21 (107) SSW-22 (10') Date: SSW-20 (10') NSW-8 (3') SSW-23 (6') SSW-10 NSW-12 -ea County, New Mexico 8SW-9 SSW-7 SSW-8 Conoco Phillips /GEU 2801-02 Pace Analytical COPTETRA Acctnum deceiving Laboratory: Project Location: P Project Name: county, state) Client Name: elinquished by: ing page 29 of 30 elinquished by Comments: LAB USE nvoice to: LAB# ONLY Released to Imaging:

Received by OCD: 4/6/2022 3:06:55 PM Page 233 of 596 o **FPH 8015R** Circle or Specify Method No. X RUSH: Same Day 24 hr. 48 hr. 72 hr. Anion/Cation Balance 0 General Water Chemistry (see attached list) Special Report Limits or TRRP Report Page: × Chloride 300.0 × × × × UPS Tracking #: (Asbestos) Rush Charges Authorized CB.8 8087 \ 608 SC/MS Semi. Vol. 8270C/625 Standard 3C/M2 AOF 8560B / 654 FEDEX **ANALYSIS REQUEST** ICLP Semi Volatiles (Circle) HAND DELIVERED CLP Metals Ag As Ba Cd Cr Pb Se Hg otal Metals Ag As Ba Cd Cr Pb Se Hg Sample Temperature LAB USE ONLY TPH 8015M ( GRO - DRO - ORO - MRO) × × × × TPH TX1005 (Ext to C35) BIEX 8500B BTEX 8021B × × × × × z z FILTERED (Y/N) Z z <u>le</u> Fax (432) 682-901 West Wall Street, Suite 100 Midland, Taxas 79701 Email: christian.llull@tetratech.com # CONTAINERS PRESERVATIVE Time: Time: NONE Phone: (512) 338-1667 CE × × × × × (432) 682-4559 John Thurston ONH Date: Date: 212C-MD-02099 Date: Christian Llul 4CF METRIX × × × TIOS × × **NATER** TIME 8:42 8:48 8:54 9:00 90:6 ORIGINAL COPY Sampler Signature: SAMPLING Site Manager: Contact Info: **EAR: 2021** Received by: Received by: Received by: 10/21/2021 10/21/2021 10/21/2021 10/21/2021 10/21/2021 Project #: DATE Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701 1500 Tetra Tech, Inc. Time: 12/22/01 SAMPLE IDENTIFICATION Date: NSW-15 NSW-16 NSW-14 **NSW-13** NSW-17 Lea County, New Mexico VGEU 2801-02 Pace Analytical COPTETRA Acctnum Receiving Laboratory: Reliable 30 of 30 of 30 Project Location: Project Name: county, state) elinquished by: Relinquished by: LAB USE ONLY Comments: nvoice to: **148** 



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keene

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



### 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.

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene

Reported:

16-Nov-21 09:32



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

### Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  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

SW - 21 - 1 H213199-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	640		16.0	mg/kg	4	1111107	AC	11-Nov-21	4500-Cl-B	
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 (PIL	D)		93.4 %	69.9	-140	1111113	MS	11-Nov-21	8021B	
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	
Surrogate: 1-Chlorooctadecane			131 %	38.9	-142	1111114	MS	12-Nov-21	8015B	

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Celeg D. Keine



### 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
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	7730		16.0	mg/kg	4	1111107	AC	11-Nov-21	4500-Cl-B	
Volatile Organic Compounds by E	PA 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	
Surrogate: 4-Bromofluorobenzene (PID)			128 %	69.9	-140	1111113	MS	11-Nov-21	8021B	
Petroleum Hydrocarbons by GC I	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	
Surrogate: 1-Chlorooctane			160 %	44.3	-133	1111114	MS	12-Nov-21	8015B	
Surrogate: 1-Chlorooctadecane			144 %	38.9	-142	1111114	MS	12-Nov-21	8015B	

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Celey D. Keene

Reported:

16-Nov-21 09:32



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

### **Inorganic Compounds - Quality Control**

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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 &	z Analyzed:	11-Nov-21				
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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Celey D. Keene



### 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**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (1111113-BLK1)				Prepared & Anal	yzed: 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 (1111113-BS1)				Prepared & Anal	yzed: 11-Nov-21	I		
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 (1111113-BSD1)				Prepared & Anal	yzed: 11-Nov-21	I		
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

Celey D. Keene, Lab Director/Quality Manager



%REC

Limits

RPD

### Analytical Results For:

TETRA TECH

Analyte

GRO C6-C10

DRO >C10-C28

Total TPH C6-C28

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

 $901~\mbox{WEST}$  WALL STREET , STE 100

MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI

Source

Result

%REC

110

104

107

110

113

83.4-129

79.3-136

85.3-130

44.3-133

38.9-142

4.75

8.67

Project Number: 212-MIDLAND BP 22

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

Spike

Level

200

200

400

50.0

50.0

Reported: 16-Nov-21 09:32

RPD

Limit

12.6

12.1

Notes

### **Petroleum Hydrocarbons by GC FID - Quality Control**

### **Cardinal Laboratories**

Units

Reporting

Limit

10.0

10.0

10.0

Result

221

208

429

55.0

56.5

Blank (1111114-BLK1)				Prepared & Anal	yzed: 11-Nov-2	1	
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: I-Chlorooctadecane	54.0		mg/kg	50.0	108	38.9-142	
LCS (1111114-BS1)				Prepared & Anal	yzed: 11-Nov-2	1	
GRO C6-C10	231	10.0	mg/kg	200	116	83.4-129	
ORO >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	

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence are any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether succession arising out of or related to the performance of the services hereunder by Cardinal Laboratories.

Celey D. Keene



### **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.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Insufficient time to reach temperature.

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 9

\* Revisions as per Christian 11/16/21

Christian Uull

### ARDINAL aboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Tetra Ted									8	BILL TO					AN	ANALYSIS	S RE	REQUEST			
Project Manager:	Christien Wall							P.O. #:	#							H	L			H		L
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City:	State:	Zip:						Attr	C	53	Attn: Christin LISI	_										
Phone #:	Fax#: NA							Ado	Address:	12						_				_		_
Project #: 212-m	all and 80 22. Project On	wner:						City:	,.											_		
Project Name: VEEta al-07	me: VEET OF OF VESAU Safellite	Aus	zhe	11.	7	-)	28	(-2 A State:			Zip:										-	
Project Location: Lea	Les Gordy, NM		1	12	Truck 1,72	Y.		Pho	Phone #:	.2.5						_				_		
Sampler Name: Ush	Ben The Ben							Fax #:	#							_				_		
FOR LAB USE ONLY				Ц	2	MATRIX	×	Ī	RES	PRESERV.	SAMPLING	NG				_				_		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	ВЭТАМОИООЯЭ	RETEWATER 1102	OIF	SLUDGE	: ЯЭНТО	ICE / COOF	OTHER:	DATE	TIME	HqT	X∃T8	Chlorides	bloH						
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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

23.60

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

Page 9 of 9

101 East 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



### 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	94.3	% 38.9-14	2						

### Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



### 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

Applyzod By: MC

Project Location: LEA CO NM

### Sample ID: FS - 21 - 1 (5') (H213320-02)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	а ву: м5					
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	93.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	106	% 38.9-14	2						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### **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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Celeg D. Freene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	Laboratories
1	

absnm.com	@cardinalla	celey.keene	Constitution compet account verbal changes. Please email changes to celey.keene@cardinallabsnm.com	al changes. Pleas	t accent verb	+ Cardinal canno	TOKM-000 K 3.2 10/07/21	FORM-od
	C	Thermometer ID #113 Correction Factor -0.5°C	Thermon	Types Types		Corrected Temp. °C 5.	Bus - Other:	Sampler - UPS -
Bacteria Cool Int	Standard Rush	Turnaround Time:	вү:	dition	1	Time:		Delivered By: (Circle One)
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Add'l Phone #: ovide Email address:	☐ Yes ☐ No	Result:	Verbal Result:	uch claim is based upon any o	Received By:	ing out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any or any access and parties.  Date: Received By:	sing out of or related to the performa	affiliates or successors ari
		I the applicable flaries, wise.	al within 30 days after completion of profits incurred by client, its subsict than about stated reasons or other	writing and received by Cardin rruptions, loss of use, or loss o	waived unless made in imitation, business inte	PLEASE NOTE: Liability and Damages. Cardinal's liability and culent's excuseer terrory in any many many mand the publicate please. Cardinal siability and culent's excuseer has been added to the publicate and received by Cardinal within 30 days after completion of the applicate analyses. All claims including those for negligence and any offer cause whichsower shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applications. It is a considerable for incidential or consequential damages, including without limitation, business interruptions, loss of tools, or loss of profits incurred by client, its subsidiaries.	and Darnages. Cardinal's liability and ding those for negligence and any oth Cardinal ha liable for incidental or co	PLEASE NOTE: Liability analyses. All claims included in the second shall be seen to shall be shall be seen to shall be seen to shall be seen to shall be seen t
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			sten (Iv)	Attn: Christian	19761	State: Tx zip: 79-		in midles
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				P.O. #:		ااملا	Christian	roject Manager:
			BILL TO	BI				ompany Name:
ANALYSIS REQUEST						FAX (575) 393-2476	(575) 393-2326 FA	
						CANON	IN East Manana, Loves,	



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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



### 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 Sampling Date: 11/22/2021

Reported: 11/23/2021 Sampling Type: Soil

Project Name: VGFU 01-02 Sampling Condition: Cool & Intact
Project Number: 212C-MD-02099.991 Sample Received By: Tamara Oldaker

A ... - L ... - - - I D. .. MC

Project Location: COP - LEA CO NM

### Sample ID: SW - 21 - 1 (4') (H213356-01)

BTEX 8021B	mg,	'kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d 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	Analyze	d 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	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	107	% 38.9-14	2						

Cardinal Laboratories \*=Accredited Analyte

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

Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



### **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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with Sigh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Released to Imaging: 9/14/2022 2:31:25 PM

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (575) 393-2476

. 1		BILL TO	ANA	ANALYSIS REQUEST
I roject manager. UNTIST IO		P.O. #:		
Address: Christian // ull@tetratech com	3	Company:		
City:	9.	Attn: Christian Ly	H	
Phone #:		Address:		
Project #: VISE 212C/MS-02097, 941	towner: CoP	City:		
Project Name: UKY 01-02		State: Zip:		
Project Location: Les Count	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Phone #:		
Sampler Name: July Thur	The last	Fax #:		
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	LING	
Lab I.D. Sample I.D.	G)RAB OR (C)OMP. CONTAINERS GROUNDWATER WASTEWATER GOIL DIL GLUDGE	OTHER: ACID/BASE: CE / COOL OTHER:	TPH Chloride BTEX	
1 Sw-21-1	×	×	180 4	
LEASE NOTE: Liability and Damages. Cardinal's liability and private and Lickims including those for negligence and any oth enview, in no event shall Cardinal be liable for incidental or con- filiates or successors arising out of or related to the performan	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whistoever 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 consequental damages, including whose for sealed to the performance of services between the inhaltion, business interruptions, loss of use, or loss of profits incurred by Cardinal waited to the performance of services between the inhaltion, business interruptions, loss of use, or loss of profits incurred by cardinal waited to the performance of services between the inhaltion, business interruptions, bus of use, or loss of profits incurred by cardinal waited to the performance of services between the inhaltion, business interruptions, bus of use, or loss of profits incurred by cardinal waited to the performance of services between the inhaltion, business interruptions, bus of use, or loss of profits incurred by Cardinal waited to the performance of services between the inhaltion, business interruptions, bus of use, or loss of profits incurred by Cardinal waited to the applicable of the applicable o	sed in contract or forf, shall be limited to the amount paid ein writing and received by Cardinal within 30 days and interruptions, loss of year, or loss of profits incurred by after ther such claim is based upon any of the above selated us	by the client for the completion of the applicable ent. Its subsidiaries, sons or otherwise.	
ished By	d By:	Make	Verbal Result: ☐ Yes ☐ No Add'i Phone #: All Results are emailed. Please provide Email address: REMARKS:	Add'I Phone #: ide Email address:
Delivered By: (Circle One)  Sampler - UPS - Bus - Other:	Observed Temp. °C 3.0 Sample Condition Cool Intact Corrected Temp. °C 3.5 Pyes Pyes No No No	n CHECKED BY: (Initials)	Turnaround Time: Standard Rush Thermometer ID #113 Correction Factor -0.5°C	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C  Yes Yes No Corrected Temp. °C



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keene

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



# **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

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



# **Analytical Results For:**

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701		Project Number: Project Manager:	EVGSAU SATELLITE 1-2 TRUNK LI 212-MD-02099-991 CHRISTIAN LLULL (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



### Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  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
			Cardina	l Laborat	ories					
<b>Inorganic Compounds</b>										
Chloride	80.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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 (PI	D)		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. Keine

06-Dec-21 09:37



#### 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

FS - 21 - 3 H213474-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds	s 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 (PI	TD)		95.5 %	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			112 %	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

06-Dec-21 09:37



#### 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

FS - 21 - 4 H213474-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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 C	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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Celeg D. Keene



### 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
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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 (PII	D)		96.4 %	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	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			115 %	44.3	-133	1120310	MS	03-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			115 %	38.9	-142	1120310	MS	03-Dec-21	8015B	

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Celey D. Keene, Lab Director/Quality Manager

06-Dec-21 09:37



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

## Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  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

FS - 21 - 6

H213474-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds b	y 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 G	C 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



### Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  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
			Cardina	ıl Labora	tories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds	s 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 (PL	D)		94.9 %	69.9	0-140	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			116 %	44.3	1-133	1120310	MS	03-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			121 %	38.9	-142	1120310	MS	03-Dec-21	8015B	

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Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  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
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compound	s 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 (P.	ID)		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			93.1 %	44.3	-133	1120310	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			101 %	38.9	-142	1120310	MS	04-Dec-21	8015B	

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Celey D. Keene, Lab Director/Quality Manager

06-Dec-21 09:37



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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

FS - 21 - 9 H213474-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	128		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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 (PIL	))		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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### 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

FS - 21 - 10 H213474-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compound	s 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 (P.	ID)		94.4 %	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			120 %	44.3	-133	1120310	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			121 %	38.9	-142	1120310	MS	04-Dec-21	8015B	

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06-Dec-21 09:37



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### Analytical Results For:

H213474-10 (Soil)

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

FS - 21 - 11

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Inorganic Compounds										
Chloride	128		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compound	s 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 (P.	ID)		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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### 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

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H213474-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	112		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds by	EPA Method 8	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)			95.0 %	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			103 %	44.3	-133	1120310	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			106 %	38.9	142	1120310	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

FS - 21 - 14 H213474-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Labora	tories					
Inorganic Compounds										
Chloride	128		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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	0-140	1120314	MS/	03-Dec-21	8021B	
Petroleum Hydrocarbons by C	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	2-133	1120310	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			114 %	38.9	-142	1120310	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

FS - 21 - 15 H213474-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds	s 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 (PI	TD)		93.6 %	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			110 %	44.3	-133	1120310	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			114 %	38.9	-142	1120310	MS	04-Dec-21	8015B	

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06-Dec-21 09:37



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## Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  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

FS - 21 - 16 H213474-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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 (PIL	))		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



## Analytical Results For:

TETRA TECH

 $901\ \text{WEST}$  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
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	224		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method 8	3021								
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)			94.8 %	69.9	-140	1120314	MS/	03-Dec-21	8021B	
Petroleum Hydrocarbons by G	C 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			105 %	44.3	-133	1120310	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			107 %	38.9	-142	1120310	MS	04-Dec-21	8015B	

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Celey D. Keene



### 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
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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

8015B

8015B

04-Dec-21

04-Dec-21

06-Dec-21 09:37



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

### Analytical Results For:

TETRA TECH

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

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

FS - 21 - 19 H213474-17 (Soil)

Reporting
Analyte Result MDL Limit Units Dilution Batch Analyst Analyzed Method Notes

Cardinal Laboratories										
Inorganic Compounds										
Chloride	48.0	16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B		
Volatile Organic Compounds by l	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		
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		

44.3-133

38.9-142

1120310

1120310

MS

MS

91.1 %

98.8 %

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Celey D. Keene



### 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)

Reporting Analyte Result MDL Limit Units Dilution Batch Analyst Analyzed Method Notes

Analyte	Result MDI	Limit	Units	Dilution	Ваісп	Anaiyst	Anaryzeu	Method	Notes
		Cardina	ıl Laborat	ories					
Inorganic Compounds									
Chloride	112	16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	QR-03
Volatile Organic Compound	s 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 (P.	ID)	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



### 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
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	176		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compound	s 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 (Pi	TD)		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



### Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  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

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H213474-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	128		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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 (Pl	D)		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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06-Dec-21 09:37



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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

FS - 21 - 22

H213474-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compound	ls 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 (F	PID)		94.7 %	69.9	-140	1120315	MS/	03-Dec-21	8021B	
Petroleum Hydrocarbons by	y 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

 $901~\mbox{WEST}$  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

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H213474-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	176		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method S	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 G	C 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			82.9 %	44.3	-133	1120311	MS	03-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			78.9 %	38.9	-142	1120311	MS	03-Dec-21	8015B	

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### Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  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

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H213474-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	208		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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 (PI	D)		94.9 %	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			80.6 %	44.3	-133	1120311	MS	03-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			77.1 %	38.9	-142	1120311	MS	03-Dec-21	8015B	

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Celey D. Keene



### 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
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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 (Pl	D)		94.6 %	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			87.0 %	44.3	-133	1120311	MS	03-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			81.8 %	38.9	-142	1120311	MS	03-Dec-21	8015B	

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Celey D. Keine



# Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  WALL STREET , STE 100

MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI

212 MD 02000 001

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
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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)			94.9 %	69.9	-140	1120315	MS/	03-Dec-21	8021B	
Petroleum Hydrocarbons by GO	C 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			89.4 %	44.3	-133	1120311	MS	03-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			86.6 %	38.9	-142	1120311	MS	03-Dec-21	8015B	

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Celey D. Keene

06-Dec-21 09:37



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

## Analytical Results For:

**TETRA TECH** 

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Surrogate: 1-Chlorooctadecane

Project: EVGSAU SATELLITE 1-2 TRUNK LI

Project Number: 212-MD-02099-991

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

ESW - 21 - 1 H213474-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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 (PIL	))		94.0 %	69.9	0-140	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	1-133	1120311	MS	03-Dec-21	8015B	

38.9-142

1120311

MS

03-Dec-21

8015B

95.5 %

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Celey D. Keene, Lab Director/Quality Manager



## 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
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	112		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method S	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 G	C 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	
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



## 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
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	176		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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 (PIL	D)		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			92.6 %	44.3	-133	1120311	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			89.1 %	38.9	-142	1120311	MS	04-Dec-21	8015B	

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Celey D. Keene, Lab Director/Quality Manager

06-Dec-21 09:37



#### 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

ESW - 21 - 4 H213474-29 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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 C	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



### 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
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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 (PIL	))		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			88.5 %	44.3	-133	1120311	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			88.0 %	38.9	-142	1120311	MS	04-Dec-21	8015B	

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Celey D. Keene



## Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  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
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method S	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)			94.6 %	69.9	-140	1120315	MS/	03-Dec-21	8021B	
Petroleum Hydrocarbons by G	C 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			83.2 %	44.3	-133	1120311	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			80.2 %	38.9	-142	1120311	MS	04-Dec-21	8015B	

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Celey D. Keene



### 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
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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 (PIL	))		95.4 %	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			120 %	44.3	-133	1120311	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			116 %	38.9	-142	1120311	MS	04-Dec-21	8015B	

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Celey D. Keene



### 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
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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)			95.4 %	69.9	-140	1120315	MS/	03-Dec-21	8021B	
Petroleum Hydrocarbons by GC	C 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			95.2 %	44.3	-133	1120311	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			90.9 %	38.9	-142	1120311	MS	04-Dec-21	8015B	

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Celey D. Keene, Lab Director/Quality Manager



# **Analytical Results For:**

TETRA TECH

 $901~\mbox{WEST}$  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

Cardinal Laboratories								
Inorganic Compounds								
Chloride	160	16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B
Volatile Organic Compounds b	y 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 G	C 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 %	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

Reported:

06-Dec-21 09:37



## 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

WSW - 21 - 2 H213474-35 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compound	s 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 (P.	PID)		94.5 %	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			88.8 %	44.3	-133	1120311	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			86.0 %	38.9	-142	1120311	MS	04-Dec-21	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  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
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	144		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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)	)		94.5 %	69.9	-140	1120315	MS/	04-Dec-21	8021B	
Petroleum Hydrocarbons by C	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	73.0 %	44.3	-133	1120311	MS	04-Dec-21	8015B			
Surrogate: 1-Chlorooctadecane		69.9 %	38.9	-142	1120311	MS	04-Dec-21	8015B		

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Celeg D. Keene



## Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  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
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	112		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds l	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)	)		95.3 %	69.9	-140	1120315	MS/	04-Dec-21	8021B	
Petroleum Hydrocarbons by C	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	74.5 %	44.3	-133	1120311	MS	04-Dec-21	8015B			
Surrogate: 1-Chlorooctadecane			71.4 %	38.9	-142	1120311	MS	04-Dec-21	8015B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  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
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	1120327	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds	by EPA Method									
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 (PII	D)		95.2 %	69.9	-140	1120315	MS/	04-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			111 %	44.3	-133	1120311	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			110 %	38.9	-142	1120311	MS	04-Dec-21	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



## 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				
			Cardina	l Laborat	ories									
Inorganic Compounds														
Chloride         176         16.0         mg/kg         4         1120327         AC         03-Dec-21         4500-Cl-B														
Volatile Organic Compounds	s by EPA Method	8021												
Benzene*	< 0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B					
Toluene*	uene* <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 (Pl	TD)		94.2 %	69.9	-140	1120315	MS/	04-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*	PRO >C10-C28* <10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B					
EXT DRO >C28-C36		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						
Surrogate: 1-Chlorooctadecane			92.0 %	38.9	-142	1120311	MS	04-Dec-21	8015B					

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Celey D. Keene



## 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			
			Cardina	l Laborat	tories								
Inorganic Compounds													
<b>Chloride</b> 144 16.0 mg/kg 4 1120327 AC 03-Dec-21 4500-Cl-B													
Volatile Organic Compounds by EPA Method 8021													
Benzene*	< 0.050		0.050	mg/kg	50	1120315	MS/	04-Dec-21	8021B				
Toluene*	luene* <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 (Pl	TD)		95.5 %	69.9	-140	1120315	MS/	04-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*	RO >C10-C28* <10.0		10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B				
EXT DRO >C28-C36	10.0	mg/kg	1	1120311	MS	04-Dec-21	8015B						
Surrogate: 1-Chlorooctane	83.9 %	44.3	-133	1120311	MS	04-Dec-21	8015B						
Surrogate: 1-Chlorooctadecane			81.4 %	38.9	-142	1120311	MS	04-Dec-21	8015B				

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Celey D. Keene



## Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  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			
			Cardina	l Laborat	ories								
Inorganic Compounds													
Chloride	176		16.0	mg/kg	4	1120327	AC	03-Dec-21	4500-Cl-B				
Volatile Organic Compounds b	y 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)			95.6 %	69.9-	-140	1120313	MS/	04-Dec-21	8021B				
Petroleum Hydrocarbons by G	C 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	74.9 %	44.3-	-133	1120309	MS	04-Dec-21	8015B						
Surrogate: 1-Chlorooctadecane	70.2 %	38.9-	-142	1120309	MS	04-Dec-21	8015B						

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Celey D. Keine



## 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
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	1120327	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds b	oy 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 G	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				38.9	-142	1120309	MS	04-Dec-21	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  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				
			Cardina	al Laborat	ories									
Inorganic Compounds	• •													
Chloride	192		16.0	mg/kg	4	1120327	AC	03-Dec-21	4500-Cl-B					
Volatile Organic Compounds b	y EPA Method S	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					
Petroleum Hydrocarbons by G	C 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					
Surrogate: 1-Chlorooctadecane			74.1 %	38.9	-142	1120309	MS	04-Dec-21	8015B					

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Celey D. Keene



## 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**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1120322 - 1:4 DI Water										
Blank (1120322-BLK1)				Prepared &	k Analyzed:	03-Dec-21				
Chloride	ND	16.0	mg/kg							
LCS (1120322-BS1)				Prepared &	k Analyzed:	03-Dec-21				
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (1120322-BSD1)				Prepared &	k Analyzed:	03-Dec-21				
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
Batch 1120325 - 1:4 DI Water										
Blank (1120325-BLK1)				Prepared &	k Analyzed:	03-Dec-21				
Chloride	ND	16.0	mg/kg							
LCS (1120325-BS1)				Prepared &	k Analyzed:	03-Dec-21				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (1120325-BSD1)				Prepared &	ե Analyzed:	03-Dec-21				
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
Batch 1120327 - 1:4 DI Water										
Blank (1120327-BLK1)				Prepared &	k Analyzed:	03-Dec-21				
Chloride	ND	16.0	mg/kg							
LCS (1120327-BS1)				Prepared &	k Analyzed:	03-Dec-21				
Chloride	432	16.0	mg/kg	400		108	80-120			

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Celey D. Keene



## 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**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

## 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

Reported: 06-Dec-21 09:37

Project Number: 212-MD-02099-991

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

## Volatile Organic Compounds by EPA Method 8021 - Quality Control

## **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1120313 - Volatiles
---------------------------

Blank (1120313-BLK1)				Prepared: 03-Dec	c-21 Analyzed: (	)4-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	c-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	c-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. Keine

Celey D. Keene, Lab Director/Quality Manager



## 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**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch	1120314 -	Volatiles

Daten 1120314 - Volatiles									
Blank (1120314-BLK1)				Prepared & Anal	yzed: 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 & Anal	yzed: 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-BSD1)				Prepared & Anal	yzed: 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



%REC

Limits

RPD

## Analytical Results For:

TETRA TECH

Analyte

m,p-Xylene

Total Xylenes

Surrogate: 4-Bromofluorobenzene (PID)

o-Xylene

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI

Source

Result

%REC

102

98.2

101

91.6

85.5-116

85.2-111

86.2-113

69.9-140

6.64

6.45

6.58

13.6

14.1

13.4

Project Number: 212-MD-02099-991

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

Spike

Level

4.00

2.00

6.00

0.0500

Reported: 06-Dec-21 09:37

RPD

Limit

Notes

## Volatile Organic Compounds by EPA Method 8021 - Quality Control

## **Cardinal Laboratories**

Units

Reporting

Limit

0.100

0.050

0.150

Result

4.09

1.96

6.05

0.0458

LCS (1120315-BS1)				Prepared & Anal	yzed: 03-Dec-21	l			
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-BSD1)	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	

mg/kg

mg/kg

mg/kg

mg/kg

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Celey D. Keine



108

104

83.4-129

79.3-136

1.28

0.646

0.968

## 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

12.6

12.1

## Petroleum Hydrocarbons by GC FID - Quality Control

## **Cardinal Laboratories**

Analysis	D14	Reporting	TT-:4-	Spike	Source	0/DEC	%REC	DDD	RPD	Nata
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1120309 - General Prep - Organics										

Blank (1120309-BLK1)				Prepared: 03-Dec	c-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: I-Chlorooctadecane	60.6		mg/kg	50.0	121	38.9-142	
LCS (1120309-BS1)				Prepared: 03-Dec	c-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-BSD1)				Prepared: 03-Dec	c-21 Analyzed: (	04-Dec-21	

mg/kg

mg/kg

200

200

Total TPH C6-C28	423	10.0	mg/kg	400	106	85.3-130
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

10.0

10.0

216

207

**Batch 1120310 - General Prep - Organics** 

GRO C6-C10

DRO >C10-C28

Blank (1120310-BLK1)				Prepared & Analyzed: 0	3-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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Celey D. Keene



%REC

Limits

RPD

## Analytical Results For:

TETRA TECH

Analyte

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI

Source

Result

%REC

Project Number: 212-MD-02099-991

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

Spike

Level

Reported: 06-Dec-21 09:37

RPD

Limit

Notes

## Petroleum Hydrocarbons by GC FID - Quality Control

## **Cardinal Laboratories**

Units

Reporting

Limit

Result

LCS (1120310-BS1)				Prepared & Anal	yzed: 03-Dec-2	1
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

Surrogate: 1-Chlorooctadecane	58.7	mg/kg	50.0	117	38.9-142			
LCS Dup (1120310-BSD1)			Prepared & Ana	alyzed: 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 & Anal	yzed: 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 & Anal	yzed: 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					111	38.9-142	

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



## 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**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch 1120311 - General Prep - Organics** 

LCS Dup (1120311-BSD1)				Prepared & An	alyzed: 03-Dec-2	1			
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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Celey D. Keene



## **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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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 55 of 60

Sampler - UPS - Bus - Other:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## 101 East Marland, Hobbs, NM 88240

	010100000000000000000000000000000000000					
Company Name:	Tetre Tech		BILL TO			ANALYSIS REQUEST
Project Manager:	Christi	etrated com P.O.#				
Address: 901	-	Company: Tetra	tra Tech	_		
	nd State: TX	x zip: 7970   Attn: Christian	ian Limit			
#	512-565-0190 Fax#:	Address:		_		
	MD-02099-951	vner: Tetra Tech City:		M 2		
Project Name:	*GEU 01-02	1. 1/2 State:	Zip:			
Project Location:	Les County	Trunkline Phone #:		01	30	
Sampler Name:	Ą	Fax		_		
FOR LAB USE ONLY	- 1	MATRIX PRESERV.	SAMPLING	_	les	
		ATER TER			ionid	
Lab I.D.	Sample I.D.	DNTAINE DUNDW/ STEWAT DGE HER: D/BASE / COOL		TPI	Chi	
サイナル IZH		# CO GRO WAS SOIL OIL SLUI OTH	DATE TIME	-		
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2-	FS-21-3		1 0905	-		
a	FS-21-4		0910	-		
=(	53-21-5		0915			
n-	FS-21-6		0920			
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so-	-53		0935	-	E	
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10	FS-21-11	6 1 ×	12	×	×	
EASE NOTE: Liability a alyses. All claims includ	and Damages. Cardinal's liability and client's exclusive remedy for any claim ling those for negligence and any other cause whatsoever shall be deemed ! Cardinal be liable for incidental or consequental damages, including without	arising whether bat waived unless mad limitation, business	within 30 days after completion of the a office incurred by client, its subsidiaries	he applicable ries,		
Relinquished By:	sing out of or related to the performance of services hereunder by Car  By:  Date: 12/3/2	hereunder by Cardinal, regardless of white HUCH Statin's based upon any or the above sur	Phone Result:	ਜ	Yes [	☐ Yes ☐ No Add'l Phone #: ☐ Yes ☐ No Add'l Fax #:
John Th	Thurston Time: 1045	us dod denson	)	5		chanced as mer Chirs
Relinquished By:		Réceived By:	711	W 100 x		9/2/
	Timo:					

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## 101 East Marland, Hobbs, NM 88240

(5	(575) 393-2326 FAX (575) 393-2476	393-2476					1
Company Name:	Tetra Tech		BILL TO		ANA	ANALYSIS KEQUESI	
Project Manager:	Project Manager: Christian, Linu Cictratech. com		P.O. #:				
Address: 901 W. Wall st	w. wall st Ste		Company: Tetra Tech	2			
city: Midland		State: TX Zip: 79701 At	Attn: Christian Li	Limi			
Phone #: 512	Phone #: 512-515-0190 Fax #:		Address:				
Project #: 212C	Project #: 21군(CMD-329억 ~ 역기 Project Owner:	Tetra Toch	City:				
Project Name:	Project Name: * YGEW OF OF EVGSAU Safellity	1/2	State: Zip:				
Project Location:	Les County, NM	cline	Phone #:	M	B		
Sampler Name:	Thurston, John	>	1	15			
FOR LAB USE ONLY		ER	PRESERV. SAMPLING	801	80 des		
Lab I.D.	Sample I.D.	G)RAB OR (C)(CONTAINERS) GROUNDWATE VASTEWATER GOIL GLUDGE DTHER:	ACID/BASE: CE / COOL DTHER :	TPH	Chlori		
11	FS-21-13	×	X 12/1/210950	0950 X	×		
72				0755			
E.	FS-21-15			1000			
4	FS-21-16			1005			
20	F1-12-57			1010			
110	FS-21-18			1015			
77	FS-24-17			1026			
18	FS-21-20			1025			
pl	F5-21-21	<b>(</b>	<	6	<<		
20		G 1 X X 112/2/21 1035	tort shall be limited to the amount paid by the cler	by the client for the	>		
PLEASE NOTE: Liability and Dama analyses. All claims including those service. In no event shall Cardinal to	Ulamages, Caldanian's naturing and control of those for negligence and any other cause with a time to liable for incidental or consequental of the consequent of the consequent of the consequence	PLEASE NOTE: Labelity and Damages, -labelias seamy and users occasions or the policiable analyses. All claims including those for inspligence and any office claims whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for inspligence and any office claims whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable sanalyses. All claims including the claims of insplicable sanalyses and any office insplicable sanalyses. The property of the control of the claims of the control	ng and received by Cardinal within 30 days after lions, loss of use, or loss of profits incurred by cl	r completion of the applicab lient, its subsidiaries, isons or otherwise			
Relinquished By:	ed By:  Thurston Tim	Time: 1545	berson	Phone Result: Fax Result: REMARKS:	☐ Yes ☐ No Ad	Add'l Phone #: Add'l Fax #:	
Relinquished By:		e: Roceived By:					
	Time:						
Delivered By:	Delivered By: (Circle One) 4,9° Sampler - UPS - Bus - Other: 5	Sample Condition Cool_Intact Cool_Intact Yes Yes	on CHECKED BY:				
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Relinquished By:

7045

Thurston

Date: Time: 1045

Time:



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST Rush 24 th TAT

## 101 East Marland, Hobbs, NM 88240

(57	(575) 393-2326 FAX (575) 393-2476	24/6				
Company Name:	Tetra tech		BILL TO	0		ANALYSIS REQUEST
oject Manager:	Project Manager: Christian, Llull & Tetretech. com		P.O. #:			
dress: 901 V	Address: 901 W. Wall st Ste. 100	00	Company: Fette	Fethertock		
city: Mydland		X Zip: 79701	Attn: Christian Lluy	HMIT		
Phone #: 512-56-0190	56-0190 Fax#:		Address:			
oject #: 212C-M	Project #: 212C-MD-02099 -991 Project Owner:		City:			
Project Name: ***	LATER OF 02 EYGSAU	Satellitelle	State: Zip:		)	
Project Location:	La County NS		Phone #:		18	
	TNUS		Fax #:	10		
OBLABILISE OM V	١	MATRIX	PRESERV. SAN	SAMPLING	8	
FOR DAB USE ONLY		R				
Lab I.D.	Sample I.D.	G)RAB OR (C)( CONTAINERS GROUNDWATE WASTEWATER SOIL DIL SLUDGE	OTHER: ACID/BASE: CE / COOL OTHER:	TPH	STEX	
27	55-31-33	×	×	( OHO! 11)	×	
100	E4-21-23			1045		
22	NSW-21-1			1050		
110	NSW-21-2			1055		
25	NSW-21-3			1700		
26	ESW-21-1			11 05		
27	ESN-21-2			1110		
28	ESW-21-3			1115		
79	FS-121-4	<	<	1120 V	<	
Z.	ESW-21- 5	C - *	( 12/2/2)	121 1125 >	^ × ×	
PLEASE NOTE: Liability and Damages analyses All claims including those for r	amages. Cardinal's liability and client's exclusive reme	PLEASE NOTE: Liability and Damages: Cardina'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 particular arising whether based in contract or tort, shall be limited to the amount paid by the client for the applicable arisings. 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	d or lost, shall be limited to the amo	unt paid by the client for the ap	blicable	
ANCE IN HIS ESSEN SHAN CHICA	has be liable for incidental or consequental damages, in	ncluding without limitation, business interruptions	, loss of use, or loss of profits incur	red by client, its subsidiaries.		
affiliates or successors arising o	arrilates or successors arising out of or related to the performance of services hereunder by Options, regulates of whether such claims is based upon any of the above stated to the performance of services hereunder by Options, regulates of whether such claims is based upon any of the above stated reasons or officients.  Phone Results    Phone Results   Phone Phone Results   Phone	ncluding without limitation, business interruptions der by Cardinal, regardless of whether such claim	is based upon any of the above sta	ated reasons or otherwise	Yes □ No	Add'l Phone #:

Sample Condition
Cool Intact
Pes Yes
No No

Sampler - UPS - Bus - Other: 4,40 Delivered By: (Circle One) 4,92 † Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



## 24 Hour Rush 147

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tetra Project Manager: Chris Address: 901 W. W City: Middlend, TX	Christian. Little Fetra	etra tech.com	P.O. #: Company: Tetra F	Č .		ANALISIS		
Midden	wall St Stell			5				
Z ss:	St Ste	0	Company: Tetra To	C'S	_	_	-	
3			-		_	_		
-	State: TX	Zip: 79701	Attn: Christian	HWW				
Phone #: 512-6	512-66-0110 Fax#:		Address:					
	212C- MD-9299-991 Project Owner:	er: ちょうしょく	City:					
Project Name: NGEO	202	Safellite 11	2 State: Zip:		B			
Project Location:	rtono	2	Phone #:		LI			
11	+		Fax #:	14	0:			
╗		MATRIX	X PRESERV. SAMPLING					
Lab I.D.	Sample I.D.	PRAB OR (C)OMP CONTAINERS ROUNDWATER ASTEWATER DIL	UDGE THER: CID/BASE: E / COOL THER:		BTEX Chlori			
1/45.17.14	FSW - 21-1-	- # G W	S O A X		×			
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200	ESW-21-8			1140				
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3/2	W5W-21-3			1155				
Ch				1200				
25	WSW-21-5			1205				
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40			is contract or tort shall be limited to the amount gaid by the client for the	i 2 7	XIXIX	-		
PLEASE NOTE: Liability and Dam analyses. All claims including thos service. In no event shall Cardinal	PLEASE NOTE: Lability and Damages. Cardinal's lability and client's exclusive terreby to any cam arising wretten bears in common with the Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligations and any other cause whatsower shall be deemed waived unless and the 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 substitutions.	we remedy for any claim alising whemer wasculing soever shall be deemed waived unless made in wascever shall be deemed waived unless made in wascess intermanages, including without limitation, business intermanages, including without limitation, business intermanages.	iting and received by Cardinal within 30 days at pitions, loss of use, or loss of profits incurred by h daim se hesed uron any of the above stated in	ter completion of the ap client, its subsidiaries reasons or otherwise	pplicable			
Relinquished By:	y:  Date:   12/3/2	Received By:	eceived By:	Phone Result: Fax Result:	It:   Yes   No	Add'l Phone #: Add'l Fax #:		
John Thurston		- 18	Menson	REMARKS:				
Kelinquisned by.	Time:	4						
Delivered By: (C	ircle One) (LQ19	Sample Condition	ondition CHECKED BY:					
Sampler - IIPS - Bus - Other	W.	#12 Cool Intact						

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## 101 East Marland, Hobbs, NM 88240

(57	(575) 393-2326 FAX (575) 393-2476	.76	200			NAI YSIS REDIIEST	
Company Name: -	Total Tech		BILL 10			ANALISIS KEWSEST	
Project Manager:	Project Manager: Christian, Club letetratech. com	natech. com	P.O. #:				
Address: Col v	W. Wall St Ste 100		Company: Titre Tech	5			
city: Midland	State: TX	Zip: 79701	Attn: Christian L				
Phone #: 512 -56-0190	5-0190 F		Address:				
Project #: 2125-	Project #: 2125-MD-02019-99   Project Owner: Tetra Tech	er. Tetra Tech	City:	4	В		
Project Name:	GEN OF 02 ENGS/	ENGSAM Sabellite 1/2	State: Zip:	5 /			
Project Location:	county.	Trunkline	Phone #:	15	30		
Sampler Name:	Town thurston		Fax #:	86			
FOR LAB USE ONLY	- 1	MATRIX	PRESERV. SAMPLING				
Lab I.D.	Sample I.D.	G)RAB OR (C)OMI CONTAINERS GROUNDWATER WASTEWATER SOIL DIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	T'PH	Chloric		
THE CHAIN	MSW-JI-S	- #	X (2/2/2)	1220 X	×		
5	M5W-21-9	6 1 ×		1225 X	+		
S. A.	W3 2-10	, x	X 142/10 1250	1200 ×	×		
PLEASE NOTE: Liability and analyses: All dalms including service. In no event shall Caro		y for any claim arising whether based in con all be deemed waived unless made in writing luding without limitation, business interruptions of whether such of	tract or tort, shall be limited to the amount pai g and received by Cardinal within 30 days after ons, loss of use, or loss of profits incurred by or talm is based upon any of the above stafed re-	d by the client for the er completion of the applic client, its subsidiaries, asons or otherwise.	able		
Relinquished By:  Tohn Thurston  Relinquished By:	ned By:  Thurston  Time: (045)  Date: 12/3/2)  Time: (045)	Received By: Received By: Received By:	ived By:  Olici Jennio Any of the above states realized By:  Olici Jennio Any of the above states realized By:	Fax Result: REMARKS:	□ Yes □ No	Add'l Phone #: Add'l Fax #:	
Delivered By:	Delivered By: (Circle One) 4.99	Sample Condition Cool Infact Cool Infact □ Yes □ Yes	ndition CHECKED BY: ct (Initials)				



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



## Analytical Results For:

**TETRA TECH** CHRISTIAN LLULL 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 12/17/2021 Sampling Date: 12/16/2021

Reported: 12/22/2021 Sampling Type: Soil

Fax To:

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)

BTEX 8021B	mg/	kg	Analyze	d 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	95.2	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 54.5-13	5						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



## 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

ma/ka

## Sample ID: ESW - 2 (H213651-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	ea 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed 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	Analyze	ed 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	% 54.5-13	5						

Applyzod By: MC/

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



## Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Analyzed By: MS/

Received: 12/17/2021 Sampling Date: 12/16/2021

Reported: 12/22/2021 Sampling Type: Soil

Fax To:

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

mg/kg

## Sample ID: ESW - 3 (H213651-03)

BTEX 8021B

	9,	9	7	7 ,					
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	95.4	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	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	Analyze	d 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	1						
Surrogate: 1-Chlorooctadecane	90.5	% 54.5-13	5						

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Celeg D. Freene



## 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

ma/ka

## Sample ID: ESW - 4 (H213651-04)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a 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	94.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 54.5-13	5						

Applyzod By: MC/

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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

mg/kg

## Sample ID: ESW - 5 (H213651-05)

BTEX 8021B

	9,	9	7	7: : : : : : : : : : : : : : : : : :					
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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	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	Analyze	ed 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	% 54.5-13	5						

Analyzed By: MS/

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



## 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

Applyzod By: MC/

Project Location: COP - LEA CO NM

ma/ka

## Sample ID: ESW - 6 (H213651-06)

RTFY 8021R

Result <0.050	Reporting Limit	Analyzed	Method Blank	BS	0/ D	T 1/1 00		
<0.050				DS.	% Recovery	True Value QC	RPD	Qualifier
	0.050	12/18/2021	ND	1.97	98.7	2.00	8.75	
<0.050	0.050	12/18/2021	ND	1.96	98.2	2.00	9.13	
<0.050	0.050	12/18/2021	ND	1.95	97.6	2.00	8.88	
<0.150	0.150	12/18/2021	ND	6.01	100	6.00	9.64	
<0.300	0.300	12/18/2021	ND					
95.0	% 69.9-14	0						
mg/	'kg	Analyze	d By: GM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
11200	16.0	12/20/2021	ND	416	104	400	3.92	QM-07
mg/	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	12/17/2021	ND	224	112	200	7.59	
<10.0	10.0	12/17/2021	ND	231	116	200	6.51	
<10.0	10.0	12/17/2021	ND					
93.4	% 62-130	)						
96.4	% 54.5-13	5						
	<0.050 <0.050 <0.050 <0.150 <0.300  95.0  mg/  Result  11200  mg/  Color = 10.0  <10.0  93.4	<0.050 0.050 <0.050 0.050 <0.150 0.150 <0.300 0.300  95.0 % 69.9-14  mg/kg  Result Reporting Limit  11200 16.0  mg/kg  Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0	County   County	<0.050	<0.050	<0.050	<0.050	<0.050

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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: Sampling Type: Soil 12/22/2021

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)

BTEX 8021B	mg/	kg	Analyze	d 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	94.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	1						
Surrogate: 1-Chlorooctadecane	87.6	% 54.5-13	5						

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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

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

## Sample ID: SSW - 11 (H213651-08)

BTEX 8021B

	9/	9	7	7: : : : : : : : : : : : : : : : : :					
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	95.3	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 54.5-13	5						

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Celey D. Keene



## Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Analyzed By: MS/

Received: 12/17/2021 Sampling Date: 12/16/2021

Reported: 12/22/2021 Sampling Type: Soil

Fax To:

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

mg/kg

## Sample ID: SSW - 12 (H213651-09)

BTEX 8021B

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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 54.5-13	5						

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Celey D. Keine



## 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

Applyzod By: MC/

Project Location: COP - LEA CO NM

ma/ka

## Sample ID: SSW - 13 (H213651-10)

RTFY 8021R

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	12/20/2021	ND	1.80	89.8	2.00	4.91	
<0.050	0.050	12/20/2021	ND	1.79	89.4	2.00	5.05	
<0.050	0.050	12/20/2021	ND	1.78	88.9	2.00	4.61	
<0.150	0.150	12/20/2021	ND	5.39	89.8	6.00	5.42	
<0.300	0.300	12/20/2021	ND					
95.5	% 69.9-14	0						
mg/	'kg	Analyze	d By: GM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
64.0	16.0	12/20/2021	ND	416	104	400	3.92	
mg/	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	12/17/2021	ND	224	112	200	7.59	
<10.0	10.0	12/17/2021	ND	231	116	200	6.51	
<10.0	10.0	12/17/2021	ND					
87.3	% 62-130	)						
89.3	% 54.5-13	5						
-	<0.050 <0.050 <0.050 <0.150 <0.300  95.55  mg/  Result 64.0  mg/  Result <10.0 <10.0 <87.35	<0.050 <0.050 <0.050 <0.050 <0.050 <0.150 <0.300 95.5 % 69.9-14 mg/kg Result Reporting Limit 64.0 16.0 mg/kg Result Reporting Limit <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <62-136	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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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

Applyzod By: MC/

Project Location: COP - LEA CO NM

ma/ka

## Sample ID: FS - 79 (H213651-11)

RTFY 8021R

mg/	<u> </u>		a By: MS/					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	12/20/2021	ND	1.80	89.8	2.00	4.91	
<0.050	0.050	12/20/2021	ND	1.79	89.4	2.00	5.05	
<0.050	0.050	12/20/2021	ND	1.78	88.9	2.00	4.61	
<0.150	0.150	12/20/2021	ND	5.39	89.8	6.00	5.42	
<0.300	0.300	12/20/2021	ND					
96.6	% 69.9-14	0						
mg/	kg	Analyze	d By: GM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
2000	16.0	12/20/2021	ND	416	104	400	3.92	
mg/	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	12/17/2021	ND	224	112	200	7.59	
<10.0	10.0	12/17/2021	ND	231	116	200	6.51	
<10.0	10.0	12/17/2021	ND					
88.2	% 62-130	)						
92.1	% 54.5-13	5						
	Result <0.050 <0.050 <0.050 <0.150 <0.300  96.69  mg/  Result 2000  mg/  Result <10.0 <10.0 <88.29	Result Reporting Limit <0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150 <0.300 0.300  96.6 % 69.9-14  mg/kg  Result Reporting Limit 2000 16.0  mg/kg  Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0	Result         Reporting Limit         Analyzed           <0.050	Result         Reporting Limit         Analyzed         Method Blank           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <0.050

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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

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

## Sample ID: FS - 78 (H213651-12)

BTEX 8021B

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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	ed 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	Analyze	ed 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	% 54.5-13	5						

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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

mg/kg

### Sample ID: FS - 77 (H213651-13)

BTEX 8021B

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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 54.5-13	5						

Analyzed By: MS/

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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

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

### Sample ID: FS - 76 (H213651-14)

BTEX 8021B

	9/	9	7	7: : : : 0					
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 BTEX	<0.300	0.300	12/20/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.6	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 54.5-13	5						

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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

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

### Sample ID: FS - 75 (H213651-15)

BTEX 8021B

	<u> </u>			. , .,					
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 BTEX	<0.300	0.300	12/20/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 54.5-13	5						

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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

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

### Sample ID: FS - 74 (H213651-16)

BTEX 8021B

	9/	9	7	7: : : : 0					
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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 54.5-13	5						

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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

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

### Sample ID: FS - 73 (H213651-17)

BTEX 8021B

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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 54.5-13	5						

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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

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

### Sample ID: FS - 72 (H213651-18)

BTEX 8021B

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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	1						
Surrogate: 1-Chlorooctadecane	97.6	% 54.5-13	5						

Cardinal Laboratories \*=Accredited Analyte

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Celey & Keene



### 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

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

### Sample ID: FS - 71 (H213651-19)

BTEX 8021B

	9,	9	7	7: : : : 0					
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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 54.5-13	5						

Cardinal Laboratories \*=Accredited Analyte

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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: Sampling Type: Soil 12/22/2021

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)

BTEX 8021B	mg/	kg	Analyze	d 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	94.8 9	69.9-14	0						
Chloride, SM4500Cl-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	Analyze	d 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 9	62-130	)						
Surrogate: 1-Chlorooctadecane	81.79	54.5-13	5						

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Celey D. Keine



### 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

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

### Sample ID: FS - 69 (H213651-21)

BTEX 8021B

DILX GOZID	ıııg,	ng .	Allulyzo	a by. 1-15/					
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	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed 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	Analyze	ed 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	% 54.5-13	5						

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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

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

### Sample ID: FS - 68 (H213651-22)

BTEX 8021B

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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 54.5-13	5						

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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: Sampling Type: Soil 12/22/2021

Project Name: VGEU 2801-02 FLOWLINE RELEASE Sampling Condition: Cool & Intact Jodi Henson Project Number: 212C-MD-02099 Sample Received By:

Project Location: COP - LEA CO NM

### Sample ID: FS - 67 (H213651-23)

BTEX 8021B	mg/	kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-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	Analyze	d 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	1						
Surrogate: 1-Chlorooctadecane	83.9	% 54.5-13	5						

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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

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

### Sample ID: FS - 66 (H213651-24)

BTEX 8021B

	9,	9	7	7: : : : 0					
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	95.4	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 54.5-13	5						

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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: Sampling Type: Soil 12/22/2021

Project Name: VGEU 2801-02 FLOWLINE RELEASE Sampling Condition: Cool & Intact Jodi Henson Project Number: 212C-MD-02099 Sample Received By:

Project Location: COP - LEA CO NM

### Sample ID: FS - 65 (H213651-25)

BTEX 8021B	mg/	kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-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	Analyze	d 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	1						
Surrogate: 1-Chlorooctadecane	78.5	% 54.5-13.	5						

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Celey D. Keene



### 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

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

### Sample ID: FS - 64 (H213651-26)

BTEX 8021B

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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 54.5-13	5						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### 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

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

### Sample ID: FS - 63 (H213651-27)

BTEX 8021B

	9	9	7	7: : : : 0					
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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed 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	Analyze	ed 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	% 54.5-13	5						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### 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: Sampling Type: Soil 12/22/2021

Project Name: VGEU 2801-02 FLOWLINE RELEASE Sampling Condition: Cool & Intact Sample Received By: Jodi Henson Project Number: 212C-MD-02099

Project Location: COP - LEA CO NM

### Sample ID: FS - 62 (H213651-28)

BTEX 8021B	mg/	kg	Analyze	d 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 BTEX	<0.300	0.300	12/21/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2	% 69.9-14	0						
Chloride, SM4500Cl-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	Analyze	d 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	% 54.5-13.	5						

Cardinal Laboratories \*=Accredited Analyte

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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

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

### Sample ID: FS - 61 (H213651-29)

BTEX 8021B

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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 54.5-13	5						

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### Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Analyzed By: MS/

Received: 12/17/2021 Sampling Date: 12/16/2021

Reported: 12/22/2021 Sampling Type: Soil

Fax To:

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

mg/kg

### Sample ID: FS - 60 (H213651-30)

BTEX 8021B

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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 54.5-13	5						

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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

Applyzod By: MC/

Project Location: COP - LEA CO NM

ma/ka

### Sample ID: FS - 57 (H213651-31)

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	a 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	1						
Surrogate: 1-Chlorooctadecane	88.6	% 54.5-13	5						

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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

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

### Sample ID: FS - 56 (H213651-32)

BTEX 8021B

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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	1						
Surrogate: 1-Chlorooctadecane	82.6	% 54.5-13	5						

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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

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

### Sample ID: FS - 53 (H213651-33)

BTEX 8021B

	<u> </u>			. , .,					
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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 54.5-13	5						

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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

Applyzod By: MC/

Project Location: COP - LEA CO NM

ma/ka

### Sample ID: FS - 52 (H213651-34)

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	a 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	% 69.9-14	0						
Chloride, SM4500Cl-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	Analyze	d 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	% 54.5-13	5						

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Celeg D. Freene



### 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: Sampling Type: Soil 12/22/2021

Project Name: VGEU 2801-02 FLOWLINE RELEASE Sampling Condition: Cool & Intact Jodi Henson Project Number: 212C-MD-02099 Sample Received By:

Project Location: COP - LEA CO NM

### Sample ID: FS - 51 (H213651-35)

BTEX 8021B	mg/	kg	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-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	Analyze	d 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	1						
Surrogate: 1-Chlorooctadecane	82.0	% 54.5-13.	5						

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Celey D. Keene



### 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: Sampling Type: Soil 12/22/2021

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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-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	Analyze	d 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	% 54.5-13	5						

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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: Sampling Type: Soil 12/22/2021

Project Name: VGEU 2801-02 FLOWLINE RELEASE Sampling Condition: Cool & Intact Jodi Henson Project Number: 212C-MD-02099 Sample Received By:

Project Location: COP - LEA CO NM

### Sample ID: FS - 49 (H213651-37)

BTEX 8021B	mg/	kg	Analyze	d 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 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	1						
Surrogate: 1-Chlorooctadecane	85.9	% 54.5-13	5						

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### Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 12/17/2021 Sampling Date: 12/16/2021

Reported: 12/22/2021 Sampling Type: Soil

Fax To:

Project Name: VGEU 2801-02 FLOWLINE RELEASE Sampling Condition: Cool & Intact
Project Number: 212C-MD-02099 Sample Received By: Jodi Henson

Applyzod By: 14

Project Location: COP - LEA CO NM

ma/ka

### Sample ID: FS - 48 (H213651-38)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 54.5-13	5						

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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

Applyzod By: 14

Project Location: COP - LEA CO NM

ma/ka

### Sample ID: FS - 47 (H213651-39)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: ЈН					
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	109	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed 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	Analyze	ed 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	% 54.5-13	5						

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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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Celeg D. Freene



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 01 of 01

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Project #: 2/2/~MD-03099	qq Project Owner:		4			
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Sampler Name: Joe Tu	er	MATRIX PRESERV	V. SAMPLING	_		
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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page OI of OI

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	CONTROLPS	P.O. #:		
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ame:	VGEU 2801-02 Flowline Release	olaie.		
n	Lea County, New Mexico	Fnone *:		
Sampler Name:	Toe Tuler	MATRIX PRESERV SAMPLING	ING	
H213651	ι	ER R		
Lab I.D.	Sample I.D.	CONTAINED ROUNDWA WASTEWATE OIL OIL OIL OTHER: ACID/BASE: CE / COOL OTHER:	TPH BTEX Chloride	Hold
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malyses. All claims including the	ase for negligence and any other cause whatsoever shall use for negligence and any other cause whatsoever shall use for incidental or consequental damages, inclinate the consequental damages.	PLEASE NOTE: Library and Lamage.  A Capital Space for negligence and any other cause whatsoever shall be deemed wared unless made in more and the profess of profits incurred by client, its subsidiaries, and loains, including broase for negligence and any other cause whatsoever shall be deemed wared unless instructions, base of use, or loss of profits incurred by client, its subsidiaries, and was a facility of the service o	Vac No	Add'l Phone #:
service. In no event shall Cardin officiales or successors arising ou	and of or related to the performance of services hereunder by Care	by Cardinal, regardless of whether such daim is passed approximated.  Received By:	ts: Yes   No	Add'l Fax #:
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Relinquished By:		Received By:		
	Time:			
Delivered By:		4.70 Sample Condition CHECKED BY:	1.	
Sampler - UPS - Bus - Other:	#	No No Ves		

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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			7.0. #			_	
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ddress: christian.	christian. Ilul & tetra tronitur	Zip:	Attn: Christian Ulul			_	
ity:	Fax #: NA		Address: by email				
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roject Name: VGEU	VGFU 2801-03 -100 State 15	100000	Phone #:			_	
roject Location: Lea	County, New Mexico		Fax #		_		_
Sampler Name: Jos	1	MATRIX		G			
HZ1765	(	ER R			3		
Lab I.D.	Sample I.D.	RAB OR (C CONTAINER ROUNDWAT ASTEWATE DIL	THER : CID/BASE: CE / COOL THER :	TPH	BTEX	Hold	
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23	FS-61		<	1430 V	W   W		
30 Parriage	FS = 60	mody for any claim arising whether based in	contract or tort, shall be limited to the amount pe titing and received by Cardinal within 30 days aft	paid by the client for the app	icable		
alyses. All daims including those for	for negligence and any other cause whatscever a liable for incidental or consequental damages	r shall be deemed waived union.  Including without limitation, business interruption, including without limitation, business interruptions of whether automated and the state of the state	PLEASE WILE: Assume for negligence and any other cause whatcever shall be destined waveo universal to the control of the control of the shall need to negligence and any other cause whatcever shall be destined waveo universal to the control of the	easons or otherwise.	Vas	Add'l Phone	#
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Page 01 of 01



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476  any Name: Control Phillips P.O. #:  Manager: Christian Liuil  Company: Take Take
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(57)	(575) 393-2326 FAX (575) 393-2476	-2476	DII 170		1	P	ANALYSIS REQUEST	ST
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	Christian Llull	7.00	1					
-	an. Ilul @ tetro-tech.com	Company:	any: letra lech					
		Zip: Attn:	Christian Llul					
Phone #:	Fax #: NA	Address:	ss: by email					
	2137 - MD-02099 Project Owner:	Owner: City:						
am	16.EU 2801-03 Flowline	Raleose State:	Zip:			_		
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H2980HY		RS TER ER		_		es		
Lab I.D.	Sample I.D.	G)RAB OR (( # CONTAINE GROUNDWA WASTEWAT! SOIL OIL SLUDGE OTHER; ACID/BASE:	ICE / COOL OTHER :	TPH	BTEX	Chloride	Hold	
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Ele	FS-53			1500	+			
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PLEASE NOTE: Liability and G	Jamages. Cardinal's liability and clent's exclusive those for negligence and any other cause whatson	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 peld by the client for the pplicable to the sum of the policable to t	shall be limited to the amount paid is ed by Cardinal within 30 days after of the or loss of profits incurred by city	unt paid by the client for the ys after completion of the applete ad by client, its subsidiaries,	Scable			
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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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### 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: \*\* (5

Project Name: VGEU 2801-02 FLOWLINE RELEASE Sampling Condition: \*\* (See Notes)
Project Number: 212C-MD-02099 Sample Received By: Tamara Oldaker

A .. . l. ... . d D. .. 311

Project Location: COP - LEA CO NM

### Sample ID: FS - 28 (H213699-01)

DTEV 0021D

BTEX 8021B	mg/	kg	Analyze	d 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 BTEX	<0.300	0.300	12/23/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 %	66.9-13	6						
Surrogate: 1-Chlorooctadecane	130 %	% 54.5-13	5						

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Celey D. Keine



### 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	Analyze	ed 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 54.5-13	5						

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Celey D. Keene



### 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

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

### Sample ID: FS - 30 (H213699-03)

BTEX 8021B

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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 54.5-13	5						

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Celey D. Keene



### 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

Applyzod By: MC/

Project Location: COP - LEA CO NM

ma/ka

### Sample ID: FS - 31 (H213699-04)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	ea 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	% 69.9-14	0						
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	Analyze	ed 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	% 54.5-13	5						

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Celey D. Keene



### Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 12/22/2021 Sampling Date: 12/22/2021

Reported: 12/28/2021 Sampling Type: Soil

Fax To:

Project Name: VGEU 2801-02 FLOWLINE RELEASE Sampling Condition: \*\* (See Notes)

Project Number: 212C-MD-02099 Sample Received By: Tamara Oldaker

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

### Sample ID: FS - 37 (H213699-05)

BTEX 8021B

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	% 69.9-14	0						
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	Analyze	ed 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	% 54.5-13	5						

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Celey D. Keene



### 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

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

### Sample ID: FS - 39 (H213699-06)

BTEX 8021B

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	% 69.9-14	0						
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	Analyze	d 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	% 54.5-13	5						

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Celeg D. Keene



### Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 12/22/2021 Sampling Date: 12/22/2021

Reported: 12/28/2021 Sampling Type: Soil

Fax To:

Project Name: VGEU 2801-02 FLOWLINE RELEASE Sampling Condition: \*\* (See Notes)
Project Number: 212C-MD-02099 Sample Received By: Tamara Oldaker

Applyzod By: MC/

Project Location: COP - LEA CO NM

ma/ka

### Sample ID: FS - 40 (H213699-07)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	ea 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	% 69.9-14	0						
Chloride, SM4500Cl-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	Analyze	ed 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	% 54.5-13	5						

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Celey D. Keene



### 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

Applyzod By: MC/

Project Location: COP - LEA CO NM

ma/ka

### Sample ID: FS - 41 (H213699-08)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	ea 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	% 69.9-14	0						
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	Analyze	ed 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	% 54.5-13	5						

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Celeg D. Freene



### Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 12/22/2021 Sampling Date: 12/22/2021

Reported: 12/28/2021 Sampling Type: Soil

Fax To:

Project Name: VGEU 2801-02 FLOWLINE RELEASE Sampling Condition: \*\* (See Notes)

Project Number: 212C-MD-02099 Sample Received By: Tamara Oldaker

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

## Sample ID: FS - 42 (H213699-09)

BTEX 8021B

	<u> </u>			. , .,					
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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 54.5-13	5						

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Celey D. Keene



### 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

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

### Sample ID: FS - 43 (H213699-10)

BTEX 8021B

	<u> </u>			. , .,					
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	92.1	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 54.5-13	5						

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Celey & Keene



### 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: Sampling Type: 12/28/2021 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	12/23/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d 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	% 54.5-13	5						

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Celey D. Keene



### 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

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

### Sample ID: FS - 46 (H213699-12)

BTEX 8021B

	9,	9	7	7: : : : 0					
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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 54.5-13	5						

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Celey D. Keene

S-06



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

## **Notes and Definitions**

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

3-00	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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Celey D. Keine



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page Ol of Oa

Sampler - UPS - Bus - Other: Relinquished By: Relinquished By analyses. All claims including those for negligence and any other service. In no event shall Cardinal be liable for incidental or const Delivered By: (Circle One) Project Location: Sampler Name: Project Name: Project #: Phone #: Project Manager: Lab I.D. Address: FOR LAB USE ONLY Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 200 Christian. Hull 112C-MD-02099 VGEU 2801-03 Lea County Conoco Phillips F5-41 FS-40 F5-39 Sample I.D. FS-37 FS-30 FS-29 @ letra-lech.com 38.6 New Mexico Time: Date: Flowline 22.3€ Project Owner: State: 1-11-t Fax #: NA 0-0 Roleose #//3 (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL MATRIX OIL SLUDGE OTHER State: City: Fax #: P.O. #: Phone #: Address: Attn: Company: ACID/BASE PRESERV (Initials) CHECKED BY: ICE / COOL Christian Lul OTHER BILL TO within 30 days after by email Zip: Tetra Tech DATE SAMPLING rred by client, its subsidiaries, Fax Results: Email Results to: Christian Unit Phone Results: 1140 1160 1200 1120 1030 Opti 1030 1010 1000 TIME pletton of the applicable TPH 00 Yes Yes BTEX O No Chlorides ANALYSIS Hold REQUEST

1

Page 15 of 16

Sampler - UPS - Bus - Other:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

22.3c

Sample Condition

CHECKED BY:
(Initials)

Delivered By: (Circle One)

Time:



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PLEASE NOTE: Liability and Dansanalyses. All claims including thos service. In no event shall Cardinal affiliates or successors arising out Relinquished By:	Phone #: Project #: Project Name: Project Location: Sampler Name: FOR LAB USE ONLY Lab I.D.  #213659	Project Manager:
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 structor. 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 clerit, its subsidiaries,  Relinquished By:  Received By:	State State State Fax #  C-MO-030 89 Proje VGEU 2801-03 FbJu Lea County New Lea County New FS-45 FS-45 FS-45	Christian Unll
for any claim arising whether based in contract or it be deemed waived unless made in writing and re using without limitation, business interruptions, loss by Cardinal, regardless of whether such daim is by Cardinal and the contract of th	GROUNDWATER WASTEWATER WASTEWATER SOIL OIL SLUDGE	
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t paid by the client for the safter completion of the applicability client, its subsidiaries, direasons or otherwise.  Phone Results: Fax Results: Email Results to:	TIME 1300	70
S:   Yes   Yes   To:	X X TPH  X X BTEX	
S S O NO	× × Chlorides	1
Add'l Phone #:	Hold	ANALYSIS REQUEST
		ST



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



### 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

A ..... I ..... . J D. ... 711

Project Location: COP - LEA CO NM

## Sample ID: ESW - 1 ( 4' ) (H213748-01)

BTEX 8021B	mg/	'kg	Analyze	d 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	% 69.9-14	0						
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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	85.6	% 59.5-14	2						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Released to Imaging: 9/14/2022 2:31:25 PM



### 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

Applyzod By: 14

Project Location: COP - LEA CO NM

### Sample ID: ESW - 2 ( 4' ) (H213748-02)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	86.3	% 59.5-14	2						

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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	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	59.2	% 59.5-14	2						

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with Sigh



### 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

Applyzod By: 14

Project Location: COP - LEA CO NM

### Sample ID: ESW - 4 ( 4' ) (H213748-04)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	80.3	% 59.5-14	2						

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Me South



### 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

Applyzod By: MC/

Project Location: COP - LEA CO NM

### Sample ID: ESW - 5 ( 4' ) (H213748-05)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	ea 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	90.5	% 59.5-14	2						

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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

Applyzod By: MC/

Project Location: COP - LEA CO NM

### Sample ID: ESW - 6 ( 4' ) (H213748-06)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	88.8	% 59.5-14	2						

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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

Applyzod By: MC/

Project Location: COP - LEA CO NM

## Sample ID: NSW - 13 ( 4' ) (H213748-07)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	ea 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	97.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	82.1	% 59.5-14	2						

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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

Applyzod By: MC/

Project Location: COP - LEA CO NM

### Sample ID: NSW - 14 ( 4' ) (H213748-08)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	86.0	% 59.5-14	2						

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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)

BTEX 8021B	mg,	/kg	Analyze	d 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	96.4	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	80.7	% 59.5-14	2						

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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

Applyzod By: MC/

Project Location: COP - LEA CO NM

## Sample ID: NSW - 16 ( 4' ) (H213748-10)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	63.7	% 59.5-14	2						

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### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QR-04 The RPD for the BS/BSD was outside of historical limits.

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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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476		Page O/or O
pany Name: Course Phillips	BILL TO	ANALYSIS REQUEST
ct Manager: Charstrop Hall	P.O. #:	
ess: Christian ilul a tetratech com	Company: Testa Test	
State: Zip:	Attn: Christica (Lul	

Company Name:	Cowas Phillips		BILL TO			ANALYSIS REQUEST
Project Manager:	Christian Hall		P.O. #:			
Address: Ch	chaisting. I'm a tetratech cor		Company: Tetro Te			
City:	State:	Zip:	Attn: Chashanl	lu lu		
Phone #:	Fax #: NA		Address: by exail			
Project #: 2/2C	-MO-03099 Project Owner:	ar:	City:			
Project Name:	02 Flowling R	clease	State: Zip:			
Project Location:	County New Mexico		Phone #:			
Sampler Name:	Thes.		Fax#:			
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	NG		
		ERS ATER			s	
Lab I.D.	Sample I.D.	(G)RAB OR # CONTAINI GROUNDW WASTEWAT SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	TPH	BTEX	Hold
-	ESW-1(4)	×		1100 ×	×	
2	ESW -2 (41)			1130	-	
W	ESW-3 (4")			1140		
4	ESW-4 (4.)			1300		
5	ESW-5(4)			1336		
e	Esi3-6(4)			1340		
7	NSW-13 (4)			1300		
00	NSW-14 (4)			1330		
9	NSW-15 (4)			1340		
PLEASE NOTE: Liability and	PLEASE NOTE: Lability 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	any claim arising whether based in contrac	t or tort, shall be limited to the amount pair	by the client for the	4	
analyses. All claims including those for negligence and an service. In no event shall Cardinal be liable for incidental o affiliates or successors arising out of or related to the performance.	analyses. All dains 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 clerk, its subsidiaries, 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 defent, its subsidiaries, services, or whether study dofin is based upon any of the above stated reasons to otherwise.	shall be deemed waived unless made in writing an including without limitation, business interruptions dee by Cardinal reparalless of whether such daim	ng and received by Cardinal within 30 days after tions, loss of use, or loss of profits incurred by co	ifter completion of the applicable y client, its subsidiaries, reasons or otherwise,		
Relinquished By:	Date:	0/		Results:	☐ Yes ☐ No	Add'! Phone #: Add'! Fax #:
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Released to Imaging: 9/14/2022 2:31:25 PM



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



### 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)

BTEX 8021B	mg/	kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	66.9-13	6						
Surrogate: 1-Chlorooctadecane	114 9	59.5-14	2						

### Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Kreene



### 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

Analyzed By: MS/

Project Location: COP - LEA CO NM

### Sample ID: FS - 8 ( 6' ) (H220123-02)

BTEX 8021B

DIEX OUZID	iiig/	, kg	Andryzo	u by. 1-15/					
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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	100	% 59.5-14	2						

Cardinal Laboratories \*=Accredited Analyte

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Celey & Keene



### 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: Sampling Type: Soil 01/13/2022

Project Name: VGEU 2801-02 FLOWLINE RELEASE Sampling Condition: \*\* (See Notes) Sample Received By: Tamara Oldaker Project Number: 212C-MD-02099

Project Location: COP - LEA CO NM

### Sample ID: FS - 12 ( 6' ) (H220123-03)

BTEX 8021B	mg/	kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	110 %	59.5-14	2						

### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### **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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Celeg D. Freene



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page Ol of Ol

(57	(575) 393-2326 FAX (575) 393-2476	76			ANALYSIS RE	REQUEST
12:	D. W. W.		BILL TO		- 1	
Company Name:	Camina condo		P.O. #:		_	
anag	In the Later	Can	Company: Tetro 7	Tech		
ess:	Christian, IIII & Texa Cont	Zip:	Attn: Christian L	Lide		
Dhono #	Fax #: NA		Address: CHO!		_	
Project #: 2/2/	3130-MD - 03099 Project Owner:	ner:	City:			
ame		Relacse	State: Zip:			
5	0		Phone #:			
Project Location:	Courty !				_	
Sampler Name:	Con Will	MATRIX	PRESERV. SAMPLING	G	_	
FOR LAB USE ONLY		ER R		9		
Lab I.D.	Sample I.D.	G)RAB OR (C) # CONTAINER GROUNDWAT WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER :	TPH BTEX Chlorides	Hold	
Madelas	FS-6(6')	×		× × ×		
7	F5-8 (6')	G I X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	x :	_	
Cup	67	×	*	>		
PLEASE NOTE: Liability and analyses. All claims including	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising whether based in contract or tort, shall be limited to the amount paid by the client or tore.  PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising whether based in verifing and received by Cardinal within 30 days after completion or the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived united in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including phase for negligence and any other cause whatsoever shall be deemed waived in writing and received by Cardinal within 30 days after completion of the amount paid by the client in the completion of the amount paid by the client in the cardinal state of the card	dy for any claim arising whether based in cont hall be deemed waived unless made in writing ncluding without limitation, business interruptio	ract or tort, shall be limited to the amount pa and received by Cardinal within 30 days aft ns, loss of use, or loss of profits incurred by	oplicab		
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Sampler - UPS - Bus - Other:	- Bus - Other: 24.7	C #113 CYCS CYCS	Yes A.S.			
† Cardinal	Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326	lease fax written changes	to (575) 393-2326			



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	101 9	6 59.5-14	2						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



### 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: Sampling Type: Soil 01/13/2022

Project Name: VGEU 2801-02 FLOWLINE RELEASE Sampling Condition: \*\* (See Notes) Tamara Oldaker Project Number: 212C-MD-02099 Sample Received By:

Project Location: COP - LEA CO NM

### Sample ID: FS - 29 ( 6' ) (H220124-02)

BTEX 8021B	mg/	kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	97.4	% 59.5-14	2						

### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### 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: Sampling Type: Soil 01/13/2022

Project Name: VGEU 2801-02 FLOWLINE RELEASE Sampling Condition: \*\* (See Notes) Sample Received By: Project Number: 212C-MD-02099 Tamara Oldaker

Project Location: COP - LEA CO NM

### Sample ID: FS - 31 ( 6' ) (H220124-03)

BTEX 8021B	mg/	kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	101 9	59.5-14	2						

### Cardinal Laboratories \*=Accredited Analyte

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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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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



# CHAIN-OF-CUS JEST

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

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Company Name:	Conoco Phillips		BILL TO			ANALYSIS REQUEST	T
Project Manager:	Christian Unl		P.O. #:	-			
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City:		Zip:	hrt	Sall			
Phone #:	Fax #: NA		Address: email		_		
Project #: 2/2C-	210C-MD-02099 Project Owner:	5	City:				
Project Name: VG	VGEU 2801-03 Flauling	Release	State: Zip:				
Project Location:	County		#				
Sampler Name:	Tules		Fax#:		_		
FOR LAB USE ONLY	9	MATRIX	PRESERV. SAMPLING	NG			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	TPH	BTEX Chlorides	Hold	
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Relinquished By:	Time; LR	Received By:	Make	ults:	Yes O No	Add'l Phone #: Add'l Fax #:	
Delivered By: (Circ	Delivered By: (Circle One)	Sample Condition	on CHECKED BY:	24- hour	n rush		
Sampler - UPS - Bus - Other:	12	(ii	1				



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### 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: \*\* (

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)

BTEX 8021B	mg,	/kg	Analyze	d 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 BTEX	<0.300	0.300	01/19/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	97.1	% 59.5-14	2						

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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) Sample Received By: Tamara Oldaker Project Number: 212C-MD-02099

Project Location: COP - LEA CO NM

### Sample ID: ESW - 8 (H220201-02)

BTEX 8021B	mg/	kg	Analyze	d 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 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	94.7	% 59.5-14	2						

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### Analytical Results For:

**TETRA TECH** CHRISTIAN LLULL 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 01/18/2022 Sampling Date: 01/18/2022

Reported: 01/19/2022 Sampling Type: Soil

Fax To:

Project Name: VGEU 2801-02 FLOWLINE RELEASE Sampling Condition: \*\* (See Notes) Sample Received By: Tamara Oldaker Project Number: 212C-MD-02099

Project Location: COP - LEA CO NM

### Sample ID: ESW - 9 (H220201-03)

BTEX 8021B	mg/	kg	Analyze	d 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 %	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	93.1	% 59.5-14	2						

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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 - 1 (H220201-04)

BTEX 8021B	mg,	/kg	Analyze	ed 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	98.9	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	98.9	% 59.5-14	22						

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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 - 2 (H220201-05)

BTEX 8021B	mg	/kg	Analyze	ed 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	102	% 59.5-14	22						

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Celeg D. Freene



### 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)

BTEX 8021B	mg	/kg	Analyze	ed 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	103	% 59.5-14	22						

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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) Sample Received By: Tamara Oldaker Project Number: 212C-MD-02099

Project Location: COP - LEA CO NM

### Sample ID: SSW - 4 (H220201-07)

BTEX 8021B	mg/	kg	Analyze	d 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 %	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	66.9-13	6						
Surrogate: 1-Chlorooctadecane	93.69	59.5-14	2						

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### Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 01/18/2022 Sampling Date: 01/18/2022

Reported: 01/19/2022 Sampling Type: Soil

Fax To:

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)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	75.8	% 59.5-14	2						

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Celey D. Kreine



### 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) Sample Received By: Project Number: 212C-MD-02099 Tamara Oldaker

Project Location: COP - LEA CO NM

### Sample ID: FS - 80 (H220201-09)

BTEX 8021B	mg/	'kg	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	79.1	% 59.5-14	2						

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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

Applyzod By: MC/

Project Location: COP - LEA CO NM

ma/ka

### Sample ID: FS - 81 (H220201-10)

RTFY 8021R

BIEX 8021B	mg,	/ <b>kg</b>	Anaiyze	ea 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	88.9	% 59.5-14	2						

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### Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 01/18/2022 Sampling Date: 01/18/2022 Reported: 01/19/2022 Sampling Type: Soil

Fax To:

Project Name: VGEU 2801-02 FLOWLINE RELEASE Sampling Condition: \*\* (See Notes)

Project Number: 212C-MD-02099 Sample Received By: Tamara Oldaker

Applyzod By: MC/

Project Location: COP - LEA CO NM

ma/ka

### Sample ID: FS - 84 (H220201-11)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	93.1	% 59.5-14	2						

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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	Analyze	ed 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	97.5	% 59.5-14	22						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



### Analytical Results For:

**TETRA TECH** CHRISTIAN LLULL 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 01/18/2022 Sampling Date: 01/18/2022

Reported: 01/19/2022 Sampling Type: Soil

Fax To:

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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	93.3	% 59.5-14	2						

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### Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 01/18/2022 Sampling Date: 01/18/2022

Reported: 01/19/2022 Sampling Type: Soil

Fax To:

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	Analyze	ed 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	85.4	% 59.5-14	22						

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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) Tamara Oldaker Project Number: 212C-MD-02099 Sample Received By:

Project Location: COP - LEA CO NM

### Sample ID: NSW - 18 (H220201-15)

BTEX 8021B	mg/	kg	Analyze	d 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 %	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	85.69	% 59.5-14	2						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### 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) Sample Received By: Project Number: 212C-MD-02099 Tamara Oldaker

Project Location: COP - LEA CO NM

### Sample ID: NSW - 19 (H220201-16)

BTEX 8021B	mg/	/kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	77.2	% 59.5-14	2						

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Celey D. Keine



### 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) Sample Received By: Tamara Oldaker Project Number: 212C-MD-02099

Project Location: COP - LEA CO NM

### Sample ID: NSW - 20 (H220201-17)

BTEX 8021B	mg/	kg	Analyze	d 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 %	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 %	66.9-13	6						
Surrogate: 1-Chlorooctadecane	106 %	6 59.5-14	2						

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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) Sample Received By: Project Number: 212C-MD-02099 Tamara Oldaker

Project Location: COP - LEA CO NM

### Sample ID: NSW - 21 (H220201-18)

BTEX 8021B	mg/	kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	80.8	% 59.5-14	2						

### Cardinal Laboratories \*=Accredited Analyte

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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

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

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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Celeg D. Freene

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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Delivered By: (Circle One)	analyses. All claims including those for negligence and any ourse varies service. In no event shall Cardinal be liable for incidental or consequential damages statistics or successors striking out of or related to the performance of services here.  Relinquished By:  Time:  Relinquished By:  Date:	PLEASE NOTE: Liability and Damages. Cardinal's liability and dis	2 = 5w-8 2 = 5w-8 5 5w-1 5 5w-1	Lab I.D. Sample I.D.	Christen Li KHEN-ILIM eter GEN 2801-02 GEN 2801-02 Colton BIZK	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: LANGLE PATUP!
Sample Condition CHECKED BY:  Cool Intact (Initials)  No No No	analyses. All claims including those for negligence and any one class of service. In no event shall Cardinal be labely for incidental or consequential damages, including without limitation, business interruptions, loss of use, in New Phone Results within a periodental or consequential damages, including without limitation, business interruptions, loss of use, in New Phone Results within a periodental or consequential damages, including without limitations, loss of use, in New Phone Results:  Received By:  Time:  Date:  Time:  Date:  Received By:  Received By:	W-1   W-1   W-5   W-			Zip: Zip:  Zelease  Andrew Goods  MATRIX	75) 393-2476  BILL TO  BO.#:
	Email Results: Ves No Add'l Phone #:    Add'l Phone #:   Fax Results:   Yes   No Add'l Fax #:   Email Results to:   Add'l Fax #:   Christian Unu	for the of the applicable districts.		X TPH X BTEX Chlorides Hold		ANALYSIS REQUEST



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476	5) 393-24/6 BILL TO	ANALYSIS REQUEST
Company Name: Leneco Phillips	P.O. #:	
7	Company: Tetra	
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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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



### 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	55.5	% 59.5-14	2						

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Celey D. Keine



### 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

Analyzed By: MS/

Project Location: COP - LEA CO NM

### Sample ID: FS - 71 ( 5' ) (H220217-02)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	a by. 1-15/					
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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	64.5	% 59.5-14	2						

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Celey D. Keene



### Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 01/19/2022 Sampling Date: 01/19/2022

Reported: 01/20/2022 Sampling Type: Soil

Fax To:

Project Name: VGEU 2801-02 FLOWLINE RELEASE Sampling Condition: \*\* (See Notes)
Project Number: 212C-MD-02099 Sample Received By: Tamara Oldaker

Applyzod By: MC/

Project Location: COP - LEA CO NM

### Sample ID: FS - 72 ( 5' ) (H220217-03)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	ea 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	62.1	% 59.5-14	2						

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Celey D. Keene



### Analytical Results For:

**TETRA TECH** CHRISTIAN LLULL 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 01/19/2022 Sampling Date: 01/19/2022

Reported: 01/20/2022 Sampling Type: Soil

Fax To:

Project Name: VGEU 2801-02 FLOWLINE RELEASE Sampling Condition: \*\* (See Notes) Sample Received By: Project Number: 212C-MD-02099 Tamara Oldaker

Project Location: COP - LEA CO NM

### Sample ID: FS - 75 ( 5' ) (H220217-04)

BTEX 8021B	mg/	/kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	70.9	% 59.5-14	2						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 01/19/2022 Sampling Date: 01/19/2022

Reported: 01/20/2022 Sampling Type: Soil

Fax To:

Project Name: VGEU 2801-02 FLOWLINE RELEASE Sampling Condition: \*\* (See Notes)
Project Number: 212C-MD-02099 Sample Received By: Tamara Oldaker

Applyzod By: MC/

Project Location: COP - LEA CO NM

### Sample ID: FS - 76 ( 5' ) (H220217-05)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	64.8	% 59.5-14	2						

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Celey D. Keene



### 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

Applyzod By: MC/

Project Location: COP - LEA CO NM

### Sample ID: FS - 79 ( 5' ) (H220217-06)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	ea 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	99.6	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	68.7	% 59.5-14	2						

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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

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P.O. #:  Company: Fetta Tech Attn: Address: by emet Address: by emet City:  Fax #:  Fax #:  Fax #:  ICE / COOL OTHER  ACID/BASE: ICE / COOL OTHER  HOLD  H



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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



### Analytical Results For:

**TETRA TECH** CHRISTIAN LLULL 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

(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:

Fax To:

\*\* (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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	71.2	% 59.5-14	2						

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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: NSW - 22 (H220236-02)

BTEX 8021B	mg	/kg	Analyze	ed 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	81.9	% 59.5-14	2						

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Celey D. Keine



01/20/2022

### Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 01/20/2022 Sampling Date:

ma/ka

Reported: 01/21/2022 Sampling Type: Soil

Fax To:

Project Name: VGEU 2801-02 FLOWLINE RELEASE Sampling Condition: \*\* (See Notes)

Project Number: 212C-MD-02099 Sample Received By: Tamara Oldaker

Applyzod By: MC/

Project Location: COP - LEA CO NM

### Sample ID: FS - 86 (H220236-03)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	84.7	% 59.5-14	2						

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Celey & Keene



### 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

Applyzod By: MC/

Project Location: COP - LEA CO NM

ma/ka

### Sample ID: FS - 83 (H220236-04)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	ea 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	97.6	% 59.5-14	2						

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Celeg D. Freene



### 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)

BTEX 8021B	mg	/kg	Analyze	ed 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	100	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	86.9	% 59.5-14	22						

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Celey D. Keine



### **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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Celeg D. Freene

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(5/5) 393-2326 FAX (575) 393-2476	76			Page / of /	
Company Name: COOCLE PK/ WAS		BILL TO		9	
Project Manager: Chowards Line		P.O. #:		2000	
Address: ChtsHon. Unil Ottotatech.	1. Com	Company: Testra 7	tech		
	Zip:	Attn: Christian 1	leste		
Phone#: Fax#: NA		\$	7		
-MD-02099 Projec		City:			_
GEU 280)-	Release	State: Zip:			_
" Lea County		#			_
Sampler Name: Cotto Kirkersoff		Fax #:			
FOR LINE USE ONLY	MATRIX	PRESERV. SAMPLING	G		
Lab I.D. Sample I.D.	(G)RAB OR (C)OMI # CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE	OTHER: ACID/BASE: CE / COOL OTHER:	TPH BTEX Chlorides	Hold	
2 - W-12 (4)	X		X		$\perp$
38-12 E					
4 FS-83					
0 2.32	<	<b>*</b>	4		
sulyses. All claims including those to regigence and any other executave enteredy for any claim string whether based in contract or tort, shall be limited to the amount paid by the client for the virice. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, telling out of or related to the performance of services hereunder by Cardinal, repardless of whether such claim is based upon any of the above stated reasons or otherwise.	y claim arising whether based in contract or temed walved unless made in writing and recemed walved unless made in writing and recembly on the walved unless interruptions, loss without limitation, business interruptions, loss without limitation is based on the second claim is	ort, shall be limited to the amount paid by selved by Cardinal within 30 days after con of use, or loss of profits inpurred by client, sed upon any of the above stated reasons	the client for the ripleton of the applicable . Its subsidiaries, so otherwise.		L
Coltan Backer III Time SSS	Received by:	Make Fa	Phone Results:	Vo Add'I Phone #: Vo Add'I Fax #:	
Time:	Received By:	0	Christen LLIII	24 ho Rush TAT	
ampler - UPS - Rus - Other - UPS - Rus - Other	Sample Condition	CHECKED BY: (Initials)			
		Committee			_

Page 8 of 8



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	93.0	% 59.5-14	2						

## Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### 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 Reported: 01/25/2022 Project Name: VGEU 2801-02 FLOWLINE RELEASE

212C-MD-02099 COP - LEA CO NM Sampling Date: Sampling Type: Sampling Condition: 01/24/2022 Sludge Cool & Intact

Sample Received By: Tamara Oldaker

### Sample ID: FS - 40 (5') (H220270-02)

Project Number:

Project Location:

BTEX 8021B	mg/	kg	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	91.7	% 59.5-14	2						

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Celey D. Keene



### 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 Reported: 01/25/2022 Project Name: VGEU 2801-02 FLOWLINE RELEASE

212C-MD-02099

Project Location: COP - LEA CO NM Sampling Date: 01/24/2022 Sampling Type: Sludge

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: FS - 43 (5') (H220270-03)

Project Number:

BTEX 8021B	mg,	'kg	Analyze	d 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	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	83.8	% 59.5-14	2						

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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 Reported: 01/25/2022 Project Name: VGEU 2801-02 FLOWLINE RELEASE Project Number: 212C-MD-02099

Project Location: COP - LEA CO NM Sampling Date: 01/24/2022 Sampling Type: Sludge Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker

### Sample ID: FS - 45 (5') (H220270-04)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	88.4	% 59.5-14	2						

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Celey D. Keene



### 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

 Reported:
 01/25/2022

 Project Name:
 VGEU 2801-02 FLOWLINE RELE

VGEU 2801-02 FLOWLINE RELEASE 212C-MD-02099

Project Location: COP - LEA CO NM

Sampling Date: 01/24/2022 Sampling Type: Sludge

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS - 47 (5') (H220270-05)

Project Number:

RTFY 8021R

BIEX 8021B	mg	/ Kg	Analyze	ed 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	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	86.7	% 59.5-14	22						

Applyzod By: MC/

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Celey D. Keene



### 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 Reported: 01/25/2022 Project Name: VGEU 2801-02 FLOWLINE RELEASE Sample Received By:

Project Number: 212C-MD-02099 Sampling Date: 01/24/2022 Sampling Type: Sludge Sampling Condition: Cool & Intact

Tamara Oldaker

Project Location: COP - LEA CO NM

## Sample ID: FS - 48 (5') (H220270-06)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	88.2	% 59.5-14	2						

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Celey D. Keene



### 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
Reported: 01/25/2022
Project Name: VGEU 2801-02 FLOWLINE RELEASE

VGEU 2801-02 FLOWLINE R 212C-MD-02099

Project Location: COP - LEA CO NM

Sampling Date: 01/24/2022 Sampling Type: Sludge

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS - 77 (5') (H220270-07)

Project Number:

BTEX 8021B	mg	/kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	78.6	% 59.5-14	2						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Kreine



### Analytical Results For:

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

Received:01/24/2022Sampling DaReported:01/25/2022Sampling TyProject Name:VGEU 2801-02 FLOWLINE RELEASESampling CoProject Number:212C-MD-02099Sample Received

Project Location: COP - LEA CO NM

Sampling Date: 01/24/2022
Sampling Type: Sludge
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS - 78 (5') (H220270-08)

BTEX 8021B	mg,	/kg	Analyze	d 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	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	86.9	% 59.5-14	2						

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Celey D. Keine



### **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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Celeg D. Freene

Relinquished By

Relinquished By:

Andrew

bares

Sampler - UPS

- Bus - Other:

90

Delivered By: (Circle One)

34.6

(Initials)

Fax Results: Email Results to:

Christian Llull

24 Hr Rush TAT

Time:



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page | of

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

	010/ 000-2020 1 77 (010)	10			١	١	THE PERSON NAMED IN COLUMN TO THE PE	L
Company Name:	CONOCO PLATINAS		BILL TO	0			ANALYSIS REQUEST	_
Project Manager:	0		P.O. #:		_			_
Address:	christian	h.com	Company: Total	to Toch	_			_
City:	State:	Zip:	Attn: Christian Lld	MILLING	_			
Phone #:	Fax #: NA		Address: by c.Mail	Mail	_			
Project #: 21	AIAC-MD-02019 Project Owner	5	City:					_
Project Name:	VGELL 2801-02 FL Release	ease	State: Zip:					_
Project Location:			Phone #:		_			_
Sampler Name:	Andrew Garcia		Fax #:		_			_
FOR LAB USE ONLY	The second secon	MATRIX	PRESERV. SAI	SAMPLING	_			_
Lab I.D.	Sample I.D.	CONTAINERS ROUNDWATER VASTEWATER OIL LUDGE	THER: CID/BASE: DE / COOL THER:	7	TPH	Chlorides	Hold	
_	Fs-37 (5')	- ×	×	1000	X	×		
4	_		-	1030				
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6	FS-48 (5')			1230				-
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NLEASE NOTE: Liability and natyses, All daims including	**************************************	any daim arising whether based in contract deemed waived unless made in writing and	t or tort, shall be limited to the amou d received by Cardinal within 30 dz	unt paid by the client for the tys after completion of the ag	pplicable			

Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Page 11 of 11



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### 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

Applyand By MC/

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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	74.3	% 59.5-14	2						

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Celey D. Keene



### 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

Applyzod By: MC/

Project Location: COP - LEA CO NM

### Sample ID: FS - 50 ( 5' ) (H220290-02)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	ea 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	79.2	% 59.5-14	2						

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Celey D. Keine



### 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

Applyzod By: MC/

Project Location: COP - LEA CO NM

### Sample ID: FS - 51 ( 5' ) (H220290-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a 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	100	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	75.5	% 59.5-14	2						

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Celey D. Keine



### 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

Analyzed By: MS/

Project Location: COP - LEA CO NM

### Sample ID: FS - 52 ( 5' ) (H220290-04)

BTEX 8021B

DILX GOZID	iiig/	, kg	Allulyzo	u by. 1-15/					
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	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	85.6	% 59.5-14	2						

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Celey & Keene



### 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

Analyzed By: MS/

Project Location: COP - LEA CO NM

### Sample ID: FS - 53 ( 5' ) (H220290-05)

BTEX 8021B

	9,	9	7	7: : : : 0					
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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	65.7	% 59.5-14	2						

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Celey D. Keene



### 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	Analyze	d 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 5	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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 % 66.5		6						
Surrogate: 1-Chlorooctadecane	81.7	% 59.5-14	2						

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Celey D. Keine



### 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

Applyzod By: MC/

Project Location: COP - LEA CO NM

### Sample ID: FS - 60 ( 5' ) (H220290-07)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	ea 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	70.4	% 59.5-14	2						

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Celey & Keene



### 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)

BTEX 8021B	mg/	/kg	Analyze	d 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 5	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d 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 % 66.9-1		6						
Surrogate: 1-Chlorooctadecane	80.6	% 59.5-14	2						

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Celey D. Keine



### 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

Applyzod By: MC/

Project Location: COP - LEA CO NM

### Sample ID: FS - 66 ( 5' ) (H220290-09)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	73.0	% 59.5-14	2						

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Celeg & Frence



### 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

Applyzod By: MC/

Project Location: COP - LEA CO NM

### Sample ID: FS - 70 ( 5' ) (H220290-10)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	ea 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	76.1	% 59.5-14	2						

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Celey D. Keine



### **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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Celeg D. Freene

Andrew (

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Time: 555

25 50, 22

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

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CHECKED BY: (Initials)

Time:

Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

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Relinquished By



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476		Page I of I
Company Name: CONOCO Philips	BILL YO	ANALYSIS REQUEST
Project Manager: ChNchao Uull	P.O. #:	
	Company: Total	
City: State: Zip:	Attn: Charter //	
Phone #: Fax #: NA	Address:	

Sampler Name: Project Location: Project Name: Project #:

AIAC-MD-62019 Project Owner

UGEN

to-108t

FL

Ralease

State: Phone #:

Zip:

City: Address:

Cocurty, NM

MATRIX

PRESERV

SAMPLING

Fax #:

Lab I.D

Sample I.D.

(G)RAB OR (C)OMP

# CONTAINERS GROUNDWATER

WASTEWATER

Chlorides

Hold

SOIL

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Christian Hull	Fax Results: Email Results to:	Phone Resu	Sent, its subsidiari sons or otherwise	by the client for the completion of the	1330	360	1230	1200	130	100	1030	7000	930	900	TIME
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Page 13 of 13

24 Hr Rugh TAT

Add'l Phone #: Add'l Fax #:



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keene

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



## Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Project: VGEU 2801-02 FLOWLINE RELEASI

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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Celeg D. Keine

Reported:

31-Jan-22 12:40



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

## Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  WALL STREET , STE 100

MIDLAND TX, 79701

Project: VGEU 2801-02 FLOWLINE RELEASI

Project Number: 212C-MD-02099

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

FS - 32 (5') H220344-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	320		16.0	mg/kg	4	2013108	GM	31-Jan-22	4500-Cl-B	
Volatile Organic Compounds h	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 G	C 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

Reported:

31-Jan-22 12:40



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

# Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  WALL STREET , STE 100

MIDLAND TX, 79701

Project: VGEU 2801-02 FLOWLINE RELEASI

Project Number: 212C-MD-02099

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

FS - 33 (5')

H220344-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	288		16.0	mg/kg	4	2013108	GM	31-Jan-22	4500-Cl-B	
Volatile Organic Compound	s 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 (P.	ID)		100 %	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			91.2 %	66.9	-136	2012811	MS	28-Jan-22	8015B	
Surrogate: 1-Chlorooctadecane			84.4 %	59.5	-142	2012811	MS	28-Jan-22	8015B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Reported:

31-Jan-22 12:40



### 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 RELEASI

Project Number: 212C-MD-02099

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

FS - 34 (5') H220344-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Inorganic Compounds										
Chloride	320		16.0	mg/kg	4	2013108	GM	31-Jan-22	4500-Cl-B	
Volatile Organic Compounds	s 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 (Pl	(D)		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			86.2 %	66.9	-136	2012811	MS	28-Jan-22	8015B	
Surrogate: 1-Chlorooctadecane			79.2 %	59.5	-142	2012811	MS	28-Jan-22	8015B	

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



## Analytical Results For:

**TETRA TECH** 

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: VGEU 2801-02 FLOWLINE RELEASI

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
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	272		16.0	mg/kg	4	2013108	GM	31-Jan-22	4500-Cl-B	
Volatile Organic Compounds by	y 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)			99.9 %	69.9	-140	2012814	MS/	28-Jan-22	8021B	
Petroleum Hydrocarbons by Go	C 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			89.8 %	66.9	-136	2012811	MS	28-Jan-22	8015B	
Surrogate: 1-Chlorooctadecane			82.4 %	59.5	-142	2012811	MS	28-Jan-22	8015B	

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Celey D. Keene



# Analytical Results For:

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Project: VGEU 2801-02 FLOWLINE RELEASI

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
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	128		16.0	mg/kg	4	2013108	GM	31-Jan-22	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method S	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	
Petroleum Hydrocarbons by G	C 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			86.2 %	66.9	-136	2012811	MS	28-Jan-22	8015B	
Surrogate: 1-Chlorooctadecane			78.9 %	59.5	-142	2012811	MS	28-Jan-22	8015B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: VGEU 2801-02 FLOWLINE RELEASI

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
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	320		16.0	mg/kg	4	2013109	GM	31-Jan-22	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method S	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	
Petroleum Hydrocarbons by G	C 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	
Surrogate: 1-Chlorooctadecane			78.4 %	59.5	-142	2012811	MS	28-Jan-22	8015B	

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Project: VGEU 2801-02 FLOWLINE RELEASI

Project Number: 212C-MD-02099

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

31-Jan-22 12:40

Reported:

SSW - 19 ( 20' ) H220344-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	320		16.0	mg/kg	4	2013109	GM	31-Jan-22	4500-Cl-B	
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 (PIL	D)		101 %	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			86.7 %	66.9-	-136	2012811	MS	28-Jan-22	8015B	
Surrogate: 1-Chlorooctadecane			79.8 %	59.5	-142	2012811	MS	28-Jan-22	8015B	

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Celey D. Keene



### Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: VGEU 2801-02 FLOWLINE RELEASI

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	%REC Limits	RPD	RPD Limit	Notes
Апагус	Result	Lillit	Onits	Level	Result	70KEC	Limits	KrD	Dillit	TVOICS
Batch 2013108 - 1:4 DI Water										
Blank (2013108-BLK1)				Prepared &	Analyzed:	31-Jan-22				
Chloride	ND	16.0	mg/kg							
LCS (2013108-BS1)				Prepared &	Analyzed:	31-Jan-22				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (2013108-BSD1)				Prepared &	Analyzed:	31-Jan-22				
Chloride	400	16.0	mg/kg	400		100	80-120	3.92	20	
Batch 2013109 - 1:4 DI Water										
Blank (2013109-BLK1)				Prepared &	: Analyzed:	31-Jan-22				
Chloride	ND	16.0	mg/kg							
LCS (2013109-BS1)				Prepared &	: Analyzed:	31-Jan-22				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (2013109-BSD1)				Prepared &	Analyzed:	31-Jan-22				
Chloride	416	16.0	mg/kg	400	·	104	80-120	0.00	20	

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



%REC

Limits

85.5-116

85.2-111

86.2-113

69.9-140

4.25

4.54

4.34

13.6

14.1

103

102

103

98 7

RPD

### Analytical Results For:

TETRA TECH

Analyte

m,p-Xylene

Total Xylenes

Surrogate: 4-Bromofluorobenzene (PID)

o-Xylene

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Project: VGEU 2801-02 FLOWLINE RELEASE

Project Number: 212C-MD-02099

Spike

Level

Source

Result

%REC

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

Reported: 31-Jan-22 12:40

RPD

Limit

Notes

### Volatile Organic Compounds by EPA Method 8021 - Quality Control

### **Cardinal Laboratories**

Units

Reporting

Limit

Result

4.14

2.03

6.17

0.0494

0.100

0.050

0.150

mg/kg

mg/kg

mg/kg

mg/kg

4.00

2.00

6.00

0.0500

Blank (2012814-BLK1)				Prepared & Analy	yzed: 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 & Analy	yzed: 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 & Analy	yzed: 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	

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Celey D. Keene



%REC

Limits

RPD

### Analytical Results For:

TETRA TECH

Analyte

DRO >C10-C28

Total TPH C6-C28

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: VGEU 2801-02 FLOWLINE RELEASI

Source

Result

%REC

96.0

98.8

115

131

83-129

84.5-127

66.9-136

59.5-142

Project Number: 212C-MD-02099

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

Spike

Level

Reported: 31-Jan-22 12:40

RPD

Limit

17.9

17.6

13.4

Notes

### Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

Units

Reporting

Limit

10.0

Result

192

395

57.3

65.5

DI 1 (2012011 DI 171)				D 104 1	1 20 1 22				
Blank (2012811-BLK1)				Prepared & Anal	yzed: 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 & Anal	yzed: 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 & Anal	yzed: 28-Jan-22				
GRO C6-C10	203	10.0	mg/kg	200	102	81.6-129	4.05	21.4	

mg/kg

mg/kg

mg/kg

mg/kg

200

400

50.0

50.0

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### **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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Celey D. Keine

Sampler - UPS - Bus - Other:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

#113



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(57	(575) 393-2326 FAX (575) 393-2476	76			١		ANALYSIS		
Company Name:	Course Phyllips		BILL TO		1	1	ANALTOIO	NEWOE OF	
Project Manager:	Christian Unil		P.O. #:						
-	christian. Mulla tetratech. COM	h. cort	Company: Tetra	lech					
	State:	Zip:	Attn: Christian Llu						
Phone #:	Fax #: NA		Address: by c.Mail			_			
	AIAC-MD-62019 Project Owner:	37.	City:		_				
ame	NGEN 3801-07 FL Re	Release	State: Zip:						
on:	Cocurtu		Phone #:		_				
Sampler Name:	ø		1		_				
FOR LAB USE ONLY	- 1	MATRIX	PRESERV, SAMPLING	iG	_				
Lab I.D.	Sample I.D.	AB OR (C)OMI NTAINERS UNDWATER TEWATER	ER: D/BASE: COOL	n. 1		nlorides	old		
HE027H	(m) 1911.	# CC	OTH	9:30 Y	X II	В	н		
7	TS-33(<'	7	1)28	0:00					
и	T-3++13-34/3		1/28	10:30					
4	F- 35- 635 FJ-35 (5	)	1/28	37.00		-			
4	13-1-3		35/1	12:W	1				
16	SSW- 19 (20')	<	1/18	12:30	-	-			
PLEASE NOTE: Liability and C analyses. All claims including to	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising whether based in contract or tort, shall be limited to the amount paid by the client for the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed valved unless made in writing and received by Cardinal within 30 days after completion of the applicable in on worst shall be facilitated by Cardinal within 30 days after completion of the applicable in one worst shall be facilitated by Cardinal be finited to the amount paid by the client for the paid to the applicable in the paid to the applicable in the paid to the amount paid by the client for the paid to the amount paid by the client for the paid to the amount paid by the client for the paid to the amount paid by the client for the paid to the amount paid by the client for the paid to the amount paid by the client for the paid to the amount paid by the client for the paid to the amount paid by the client for the paid to the amount paid by the client for the paid to the amount paid by the client for the paid to the amount paid by the client for the paid to the amount paid by the client for the paid to the amount paid by the client for the paid to the	for any claim arising whether based in contra be deemed waived unless made in writing a ding without limitation, business interruption	act or tort, shall be limited to the amount pais and received by Cardinal within 30 days afters, is, loss of use, or loss of profits incurred by o	d by the client for the ir completion of the a client, its subsidiaries	applicable s,				
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30 000	Duo - Cuici.			•					1

Page 14 of 14



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



### 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

Applyand By MC/

Project Location: COP - LEA CO NM

### Sample ID: FS - 57 ( 5' ) (H220365-01)

BTEX 8021B	mg	/kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	109	% 59.5-14	2						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keens



### 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

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

### Sample ID: FS - 61 ( 5' ) (H220365-02)

BTEX 8021B

	9/	9	7	7: : : : : : : : : : : : : : : : : :					
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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	106	% 59.5-14	2						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### 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

Applyzod By: MC/

Project Location: COP - LEA CO NM

### Sample ID: FS - 63 ( 5' ) (H220365-03)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	101	% 59.5-14	2						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### 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

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

### Sample ID: FS - 68 ( 5' ) (H220365-04)

BTEX 8021B

	9/	9	7	,					
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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	116	% 59.5-14	2						

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Celeg & Keene



### 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

Applyzod By: MC/

Project Location: COP - LEA CO NM

### Sample ID: FS - 69 ( 5' ) (H220365-05)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	107	% 59.5-14	2						

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Celey D. Keene



### 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

Applyzod By: MC/

Project Location: COP - LEA CO NM

### Sample ID: FS - 74 ( 5' ) (H220365-06)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	102	% 59.5-14	2						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Kreene



### **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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Celeg D. Freene

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

590

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Cool Intact
Pres 7 Yes
No No Sample Condition

> CHECKED BY: (Initials) 0

> > Rush 24 H- TAT



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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IS REQUEST	ANALYSIS					BILL TO	BII							Phillips	Carpes P	Company Name:
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Page I of I													4700	TODDS, NIM		

Page 9 of 9



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keene

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



### 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.

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keine

Reported:

16-Nov-21 09:32



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

SW - 21 - 1 H213199-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	640		16.0	mg/kg	4	1111107	AC	11-Nov-21	4500-Cl-B	
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 (PIL	D)		93.4 %	69.9	-140	1111113	MS	11-Nov-21	8021B	
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	
Surrogate: 1-Chlorooctadecane			131 %	38.9	-142	1111114	MS	12-Nov-21	8015B	

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Celey D. Keine

Reported:

16-Nov-21 09:32



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

FS - 21 - 1 H213199-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	7730		16.0	mg/kg	4	1111107	AC	11-Nov-21	4500-Cl-B	
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	
Surrogate: 4-Bromofluorobenzene (PIL	0)		128 %	69.9	-140	1111113	MS	11-Nov-21	8021B	
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	
Surrogate: 1-Chlorooctane			160 %	44.3	-133	1111114	MS	12-Nov-21	8015B	
Surrogate: 1-Chlorooctadecane			144 %	38.9	-142	1111114	MS	12-Nov-21	8015B	

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Celeg D. Keene



### 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**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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



### 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**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (1111113-BLK1)				Prepared & Anal	yzed: 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 (1111113-BS1)				Prepared & Anal	yzed: 11-Nov-21	l			
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 (1111113-BSD1)				Prepared & Anal	yzed: 11-Nov-21	l			
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



%REC

Limits

RPD

### Analytical Results For:

TETRA TECH

Analyte

 $901\ \text{WEST}\ \text{WALL}\ \text{STREET}$  , STE 100

MIDLAND TX, 79701

LCS Dup (1111114-BSD1)

GRO C6-C10

Project: EVGSAU SATELLITE 1-2 TRUNK LI

Source

Result

Prepared & Analyzed: 11-Nov-21

110

83.4-129

4.75

8.67

6.67

200

%REC

Project Number: 212-MIDLAND BP 22

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

Spike

Level

Reported: 16-Nov-21 09:32

RPD

Limit

12.6

12.1

Notes

### Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

Units

Reporting

Limit

Result

Blank (1111114-BLK1)				Prepared & Anal	yzed: 11-Nov-2	[	
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 (1111114-BS1)				Prepared & Anal	yzed: 11-Nov-2	1	
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	

mg/kg

			~ ~				
DRO >C10-C28	208	10.0	mg/kg	200	104	79.3-136	8
Total TPH C6-C28	429	10.0	mg/kg	400	107	85.3-130	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	

10.0

221

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Celey D. Keene



### **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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Celeg D. Keine

\* Revisions as per

Christian Uall

### CARDINAL

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

23.60

Delivered By: (Circle One)

Page 9 of 9

Released to Imaging: 9/14/2022 2:31:25 PM



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



### 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	94.3	% 38.9-14	2						

### Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



### 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: Sampling Type: Soil 11/19/2021

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)

BTEX 8021B	mg,	/kg	Analyze	ed 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	93.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	106	% 38.9-14	2						

Cardinal Laboratories \*=Accredited Analyte

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

Celeg D. Keene



### **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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Celeg D. Freene

### CARDINAL

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BO #	Citie Con
BILL 10	Company Name: Tolo
5111 70	(575) 393-2326 FAX (575) 393-2476
	101 East Marland, Hobbs, NM 88240
	laboratories

ene@cardinallabsnm.com	nges to celey.kee	iges. Please email chai	Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	+ Cardinal	FORM-000 K 3.2 10/07/21	Γ
13 Rush	Thermometer ID #1: Correction Factor -0.		CS 7 Cool Infact	Corrected Temp. °C S. 7	Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Deliv
Standard Bacteria (only) S	Turnaround Time:	CHECKED BY:	11	Time:		
	REMARKS:	Mach C	Receive	Date:	Relinquished By:	Relino
Please prov	All Results are ema			- 1	Relinquished By:	Relinc
☐ Yes ☐ No Add'I Phone #:	7	is of use, or loss of profits incurred by clibased upon any of the above stated rea	analyses. All claims including those for regilgence and any order cause missions are assessed in the claim including those for regilgence and any order cause missions are successed in a sevent shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries of sevents shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries are sevents and income an	ental or consequental damages, including with the performance of services hereunder by Carr	All claims including those for negligence and any in no event shall Cardinal be liable for incidental or incidental or related to the performance.	service. In
	by the client for the completion of the applicable	tort, shall be limited to the amount paid eceived by Cardinal within 30 days after	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the applicable	lability and client's exclusive remedy for	NOTE: Liability and Darnages, Cardinal's 6	PLEASE N
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× × ×	X	× 11/15/2)	- ×	(2)	SLW-21-	1
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	110		R (C)OM NERS WATER ATER	;		
802	e 3	PRESERV. SAMPLING			FOR LAB USE ONLY	FOR LAB
	0	1		Large Land	7	Sample
		Phone #:	PI		Project Location: ( & C > > >	Project
		State: Zip:			Project Name: VG E 1 0 27	Project
		City:	Tex	99 Project Owner: Tet	2515	Project
		Address:	Ac	Fax#:	# 517 5650190	0
	C)	Attn: Christian (	Zip: 79761 At	X	8	City:
	5	Company: Tetis Te	00	St Stell	Address: 96) w well	Address
		P.O. #:	P.	La Juli	10000	Project
ANALISIS NEGOCIO		BILL TO			Company Name:	ompar
ANALYSIS DECLIEST			76	(575) 393-2326 FAX (575) 393-2476	(575) 393-23	
			5	101 East Marland, Hobbs, NM 00240	101 East Maria	



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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



### 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 Sampling Date: 11/22/2021

Reported: 11/23/2021 Sampling Type: Soil

Project Name: VGFU 01-02 Sampling Condition: Cool & Intact
Project Number: 212C-MD-02099.991 Sample Received By: Tamara Oldaker

A .. . l. ... . d D. .. MC

Project Location: COP - LEA CO NM

### Sample ID: SW - 21 - 1 (4') (H213356-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	107	% 38.9-14	2						

Cardinal Laboratories \*=Accredited Analyte

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Mule Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



### **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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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Released to Imaging: 9/14/2022 2:31:25 PM

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (575) 393-2476

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	25	10	AN	ANALYSIS KEQUESI	JESI
Project Manager: Christian	[ P.O. #:				
Address: Christian // ull@tetratech com	tetratechicam company: YT			R.	
City:	State: Zip: Attn: Christian	(Jul)			
Phone #:	Addres				
Project #: Total 2126 Ma OZO77, 471	Project Owner: COP City:				
Project Name: UCH 01-0-			_	_	
	#			_	
Sampler Name: Jihn Thui	Fax #:				
FOR LAB USE ONLY	MATRIX PRESERV.	SAMPLING			
	RS ATER		de		
Lab I.D. Sample I.D. #213356	(G)RAB OR (G# CONTAINED GROUNDWATE WASTEWATE SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME	CHION		
1 Sw-21-1	(H.)	_	1		
			A.		
**LEASE NOTE: Liability and Damages. Cardinal's liability a nnalyses. All claims including those for negligence and any service. In no event shall Cardinal be liable for incidental or	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or lort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whotsoever 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 consequental damages, including without limitation, business inferruptions, loss of use, or loss of profits incurred by client, its subsidiaries.	amount paid by the client for the 10 days after completion of the applicable curred by client, its subsidiaries,			
Relinquished By:	Date:		☐ Yes ☐ No Ad	Add'l Phone #:	
TA A	Time: 1300 Mulaka Walka	All Results are em	All Results are emailed. Please provide Email address:	mail address:	
Relinquished By:	Date: Received By:	REMARKS:			
Delivered By: (Circle One)		BY: Turnaround Time:	Standard		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C a.S Pres Pres No	Thermometer ID #113 Correction Factor -0.5°C			Corrected Temp. °C



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keene

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



### Analytical Results For:

TETRA TECH

 $901\ \text{WEST}$  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	Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS - 21 - 4	FS - 21 - 2	H213474-01	Soil	02-Dec-21 09:00	03-Dec-21 10:45
FS - 21 - 5	FS - 21 - 3	H213474-02	Soil	02-Dec-21 09:05	03-Dec-21 10:45
FS - 21 - 6	FS - 21 - 4	H213474-03	Soil	02-Dec-21 09:10	03-Dec-21 10:45
FS - 21 - 7	FS - 21 - 5	H213474-04	Soil	02-Dec-21 09:15	03-Dec-21 10:45
SFS - 21 - 8	FS - 21 - 6	H213474-05	Soil	02-Dec-21 09:20	03-Dec-21 10:45
FS - 21 - 9  H213474-08  Soil  O2-Dec-21 09:35  O3-Dec-21 10:45  FS - 21 - 10  H213474-09  Soil  O2-Dec-21 09:45  O3-Dec-21 10:45  FS - 21 - 11  H213474-10  Soil  O2-Dec-21 09:45  O3-Dec-21 10:45  FS - 21 - 13  H213474-11  Soil  O2-Dec-21 09:50  O3-Dec-21 10:45  FS - 21 - 14  H213474-12  Soil  O2-Dec-21 09:55  O3-Dec-21 10:45  FS - 21 - 15  H213474-13  Soil  O2-Dec-21 10:00  O3-Dec-21 10:45  FS - 21 - 16  H213474-14  Soil  O2-Dec-21 10:05  O3-Dec-21 10:45  FS - 21 - 17  H213474-15  Soil  O2-Dec-21 10:05  O3-Dec-21 10:45  FS - 21 - 18  H213474-16  Soil  O2-Dec-21 10:10  O3-Dec-21 10:45  FS - 21 - 19  H213474-17  Soil  O2-Dec-21 10:20  O3-Dec-21 10:45  FS - 21 - 20  H213474-18  Soil  O2-Dec-21 10:25  O3-Dec-21 10:45  FS - 21 - 21  H213474-20  Soil  O2-Dec-21 10:30  O3-Dec-21 10:45  FS - 21 - 22  H213474-21  Soil  O2-Dec-21 10:30  O3-Dec-21 10:45  FS - 21 - 22  H213474-21  Soil  O2-Dec-21 10:30  O3-Dec-21 10:45  FS - 21 - 22  H213474-21  Soil  O2-Dec-21 10:45  O3-Dec-21 10:45  SSW- 21 - 1  H213474-23  Soil  O2-Dec-21 10:45  O3-Dec-21 10:45  NSW - 21 - 2  H213474-24  Soil  O2-Dec-21 10:55  O3-Dec-21 10:45  NSW - 21 - 3  H213474-25  Soil  O2-Dec-21 10:55  O3-Dec-21 10:45  NSW - 21 - 3  H213474-26  Soil  O2-Dec-21 11:05  O3-Dec-21 10:45  SSW - 21 - 1  H213474-26  Soil  O2-Dec-21 11:05  O3-Dec-21 10:45  SSW - 21 - 1  H213474-26  Soil  O2-Dec-21 11:05  O3-Dec-21 10:45  SSW - 21 - 1  H213474-26  Soil  O2-Dec-21 11:05  O3-Dec-21 10:45  SSW - 21 - 1  H213474-26  Soil  O2-Dec-21 11:05  O3-Dec-21 10:45  SSW - 21 - 1  H213474-26  Soil  O2-Dec-21 11:05  O3-Dec-21 10:45  SSW - 21 - 1  H213474-26  Soil  O2-Dec-21 11:05  O3-Dec-21 10:45  SSW - 21 - 1  H213474-26  Soil  O2-Dec-21 11:05  O3-Dec-21 10:45	FS - 21 - 7	H213474-06	Soil	02-Dec-21 09:25	03-Dec-21 10:45
FS - 21 - 10	FS - 21 - 8	H213474-07	Soil	02-Dec-21 09:30	03-Dec-21 10:45
FS - 21 - 11	FS - 21 - 9	H213474-08	Soil	02-Dec-21 09:35	03-Dec-21 10:45
FS - 21 - 13	FS - 21 - 10	H213474-09	Soil	02-Dec-21 09:40	03-Dec-21 10:45
FS - 21 - 13	FS - 21 - 11	H213474-10	Soil	02-Dec-21 09:45	03-Dec-21 10:45
FS - 21 - 15	FS - 21 - 13	H213474-11	Soil	02-Dec-21 09:50	03-Dec-21 10:45
FS - 21 - 16	FS - 21 - 14	H213474-12	Soil	02-Dec-21 09:55	03-Dec-21 10:45
FS - 21 - 17	FS - 21 - 15	H213474-13	Soil	02-Dec-21 10:00	03-Dec-21 10:45
FS - 21 - 18	FS - 21 - 16	H213474-14	Soil	02-Dec-21 10:05	03-Dec-21 10:45
FS - 21 - 19	FS - 21 - 17	H213474-15	Soil	02-Dec-21 10:10	03-Dec-21 10:45
FS - 21 - 20	FS - 21 - 18	H213474-16	Soil	02-Dec-21 10:15	03-Dec-21 10:45
FS - 21 - 21	FS - 21 - 19	H213474-17	Soil	02-Dec-21 10:20	03-Dec-21 10:45
FS - 21 - 12	FS - 21 - 20	H213474-18	Soil	02-Dec-21 10:25	03-Dec-21 10:45
FS - 21 - 22	FS - 21 - 21	H213474-19	Soil	02-Dec-21 10:30	03-Dec-21 10:45
FS - 21 - 23	FS - 21 - 12	H213474-20	Soil	02-Dec-21 10:35	03-Dec-21 10:45
NSW - 21 - 1	FS - 21 - 22	H213474-21	Soil	02-Dec-21 10:40	03-Dec-21 10:45
NSW - 21 - 2	FS - 21 - 23	H213474-22	Soil	02-Dec-21 10:45	03-Dec-21 10:45
NSW - 21 - 3	NSW - 21 - 1	H213474-23	Soil	02-Dec-21 10:50	03-Dec-21 10:45
ESW - 21 - 1 H213474-26 Soil 02-Dec-21 11:05 03-Dec-21 10:45	NSW - 21 - 2	H213474-24	Soil	02-Dec-21 10:55	03-Dec-21 10:45
23W - 21 - 1	NSW - 21 - 3	H213474-25	Soil	02-Dec-21 11:00	03-Dec-21 10:45
ESW - 21 - 2 H213474-27 Soil 02-Dec-21 11:10 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

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### **Analytical Results For:**

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701		Project Number: Project Manager:	EVGSAU SATELLITE 1-2 TRUNK LI 212-MD-02099-991 CHRISTIAN LLULL (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

 $901~\mbox{WEST}$  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
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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 (PI	D)		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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## 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
			Cardin	al Laborat	tories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compound	s 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 (P	ID)		95.5 %	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			112 %	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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06-Dec-21 09:37



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# Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  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

FS - 21 - 4 H213474-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compound	s 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 (P.	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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# 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

Reported: 06-Dec-21 09:37

Fax To: (432) 682-3946

FS - 21 - 5 H213474-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compound	s 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 (P.	ID)		96.4 %	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	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			115 %	44.3	-133	1120310	MS	03-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			115 %	38.9	-142	1120310	MS	03-Dec-21	8015B	

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06-Dec-21 09:37



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## Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  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

FS - 21 - 6 H213474-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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 C	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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06-Dec-21 09:37



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# Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  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

FS - 21 - 7 H213474-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compound	ls 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 (F	PID)		94.9 %	69.9	-140	1120314	MS/	03-Dec-21	8021B	
Petroleum Hydrocarbons by	y 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			116 %	44.3	-133	1120310	MS	03-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			121 %	38.9	-142	1120310	MS	03-Dec-21	8015B	

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06-Dec-21 09:37



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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

FS - 21 - 8 H213474-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compound	s 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 (Pi	ID)		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			93.1 %	44.3	-133	1120310	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			101 %	38.9	-142	1120310	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

FS - 21 - 9

H213474-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	128		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds by	EPA Method 8	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 GO	C 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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8021B

8015B

06-Dec-21 09:37



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## Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

**Volatile Organic Compounds by EPA Method 8021** 

< 0.050

< 0.050

< 0.050

MIDLAND TX, 79701

**Inorganic Compounds** 

Surrogate: 1-Chlorooctadecane

Chloride

Benzene\*

Toluene\*

Ethylbenzene\*

Project: EVGSAU SATELLITE 1-2 TRUNK LI

Project Number: 212-MD-02099-991

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

FS - 21 - 10 H213474-09 (Soil)

Reporting
Analyte Result MDL Limit Units Dilution Batch Analyst Analyzed Method Notes

**Cardinal Laboratories** 

16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	
0.050	mg/kg	50	1120314	MS/	03-Dec-21	8021B	

MS/

MS

03-Dec-21

04-Dec-21

1120314

1120310

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 (F	PID)	94.4 %	69.9-1	40	1120314	MS/	03-Dec-21	8021B	
Petroleum Hydrocarbons b	y 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		120 %	44.3-1	33	1120310	MS	04-Dec-21	8015B	

38.9-142

mg/kg

50

0.050

121 %

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06-Dec-21 09:37



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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

FS - 21 - 11 H213474-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds										
Chloride	128		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compound	s 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 (P	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

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  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
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	112		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method 8	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)			95.0 %	69.9	-140	1120314	MS/	03-Dec-21	8021B	
Petroleum Hydrocarbons by G	C 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			103 %	44.3	-133	1120310	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			106 %	38.9	-142	1120310	MS	04-Dec-21	8015B	

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06-Dec-21 09:37



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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

FS - 21 - 14

H213474-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	128		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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 C	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	
Surrogate: 1-Chlorooctadecane			114 %	38.9	-142	1120310	MS	04-Dec-21	8015B	

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# Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  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
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method S	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)			93.6 %	69.9	-140	1120314	MS/	03-Dec-21	8021B	
Petroleum Hydrocarbons by G	C 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			110 %	44.3	-133	1120310	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			114 %	38.9	-142	1120310	MS	04-Dec-21	8015B	

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Celey D. Keene, Lab Director/Quality Manager

06-Dec-21 09:37



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# Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  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

FS - 21 - 16

H213474-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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 C	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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# Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  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

FS - 21 - 17 H213474-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	224		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
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)			94.8 %	69.9	-140	1120314	MS/	03-Dec-21	8021B	
Petroleum Hydrocarbons by GO	C 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			105 %	44.3	-133	1120310	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			107 %	38.9	-142	1120310	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

FS - 21 - 18 H213474-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compound	s 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 (P.	TD)		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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## 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

FS - 21 - 19

H213474-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	1120322	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds h	y 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	
Petroleum Hydrocarbons by G	C 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	
Surrogate: 1-Chlorooctadecane			98.8 %	38.9	-142	1120310	MS	04-Dec-21	8015B	

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Celey D. Keine



## 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
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	112		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	QR-03
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 (PL	D)		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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## 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

Reported: 06-Dec-21 09:37

Fax To: (432) 682-3946

FS - 21 - 21 H213474-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	176		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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 (Pl	D)		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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06-Dec-21 09:37



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## Analytical Results For:

**TETRA TECH** 

Analyte

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

FS - 21 - 12 H213474-20 (Soil)

Reporting Limit Result MDL Units Dilution Analyzed Method Notes Batch Analyst

		Cardina	l Laborato	ories					
Inorganic Compounds									
Chloride	128	16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compound	ls 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 (F	PID)	94.2 %	69.9-	140	1120314	MS/	03-Dec-21	8021B	
Petroleum Hydrocarbons by	y 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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## 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
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds b	y 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 G	C 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
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	176		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compound	s 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 (Pi	D)		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	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			82.9 %	44.3	-133	1120311	MS	03-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			78.9 %	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

NSW - 21 - 1

H213474-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	208		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compound	s 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 (P.	ID)		94.9 %	69.9	0-140	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			80.6 %	44.3	1-133	1120311	MS	03-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			77.1 %	38.9	D-142	1120311	MS	03-Dec-21	8015B	

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# **Analytical Results For:**

TETRA TECH

 $901~\mbox{WEST}$  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
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compound	s 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 (Pl	ID)		94.6 %	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			87.0 %	44.3	-133	1120311	MS	03-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			81.8 %	38.9	-142	1120311	MS	03-Dec-21	8015B	

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06-Dec-21 09:37



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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

NSW - 21 - 3

H213474-25 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compound	s by EPA Method 8	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 (P.	ID)		94.9 %	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			89.4 %	44.3	-133	1120311	MS	03-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			86.6 %	38.9	-142	1120311	MS	03-Dec-21	8015B	

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06-Dec-21 09:37



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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

ESW - 21 - 1

H213474-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds l	oy 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 C	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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Celeg D. Keine



# Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  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
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	112		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds l	oy 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 G	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	
Surrogate: 1-Chlorooctadecane			94.6 %	38.9	-142	1120311	MS	03-Dec-21	8015B	

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Celey D. Keine

06-Dec-21 09:37



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

ESW - 21 - 3

H213474-28 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	176		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds l	oy 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 C	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			92.6 %	44.3	-133	1120311	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			89.1 %	38.9	-142	1120311	MS	04-Dec-21	8015B	

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Celey D. Keene



# 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
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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 (Pl	D)		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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# 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
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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 (PII	D)		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			88.5 %	44.3	-133	1120311	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			88.0 %	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 - 6

H213474-31 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds b	y 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)		·	94.6 %	69.9	-140	1120315	MS/	03-Dec-21	8021B	
Petroleum Hydrocarbons by G	C 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			83.2 %	44.3	-133	1120311	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			80.2 %	38.9	-142	1120311	MS	04-Dec-21	8015B	

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06-Dec-21 09:37



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# Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  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

ESW - 21 - 7 H213474-32 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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 (PII	D)		95.4 %	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			120 %	44.3	-133	1120311	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			116 %	38.9	-142	1120311	MS	04-Dec-21	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



## 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

06-Dec-21 09:37

Reported:

ESW - 21 - 8

H213474-33 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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 (PII	D)		95.4 %	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			95.2 %	44.3	-133	1120311	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			90.9 %	38.9	-142	1120311	MS	04-Dec-21	8015B	

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Celey D. Keene



# 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
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds	s 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 (PI	D)		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. Keine

Celey D. Keene, Lab Director/Quality Manager

06-Dec-21 09:37



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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

WSW - 21 - 2 H213474-35 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
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	)		94.5 %	69.9	-140	1120315	MS/	03-Dec-21	8021B	
Petroleum Hydrocarbons by C	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			88.8 %	44.3	-133	1120311	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			86.0 %	38.9	-142	1120311	MS	04-Dec-21	8015B	

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Celey D. Keene



## Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  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
Cardinal Laboratories										
Inorganic Compounds										
Chloride	144		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds	s 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)			94.5 %	69.9-140		1120315	MS/	04-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			73.0 %	44.3	-133	1120311	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			69.9 %	38.9	-142	1120311	MS	04-Dec-21	8015B	

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Celey D. Keene



## 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

Reported: 06-Dec-21 09:37

Fax To: (432) 682-3946

WSW - 21 - 4 H213474-37 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	112		16.0	mg/kg	4	1120325	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds I	oy 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)	)		95.3 %	69.9	-140	1120315	MS/	04-Dec-21	8021B	
Petroleum Hydrocarbons by C	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			74.5 %	44.3	-133	1120311	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			71.4 %	38.9	-142	1120311	MS	04-Dec-21	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



## 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

Reported: 06-Dec-21 09:37

Fax To: (432) 682-3946

WSW - 21 - 5 H213474-38 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	1120327	AC	03-Dec-21	4500-Cl-B	
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)			95.2 %	69.9	-140	1120315	MS/	04-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			111 %	44.3	-133	1120311	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			110 %	38.9	-142	1120311	MS	04-Dec-21	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



## 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
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	176		16.0	mg/kg	4	1120327	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds b	y 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	
Petroleum Hydrocarbons by G	C 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	
Surrogate: 1-Chlorooctadecane			92.0 %	38.9	-142	1120311	MS	04-Dec-21	8015B	

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Celey D. Keene

Reported:

06-Dec-21 09:37



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

WSW - 21 - 7 H213474-40 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	144		16.0	mg/kg	4	1120327	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds b	y 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)			95.5 %	69.9	-140	1120315	MS/	04-Dec-21	8021B	
Petroleum Hydrocarbons by G	C 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			83.9 %	44.3	-133	1120311	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			81.4 %	38.9	-142	1120311	MS	04-Dec-21	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



## 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
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	176		16.0	mg/kg	4	1120327	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compounds b	y 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)			95.6 %	69.9	-140	1120313	MS/	04-Dec-21	8021B	
Petroleum Hydrocarbons by G	C 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			74.9 %	44.3	-133	1120309	MS	04-Dec-21	8015B	
Surrogate: 1-Chlorooctadecane			70.2 %	38.9	-142	1120309	MS	04-Dec-21	8015B	

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Reported:

06-Dec-21 09:37



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## Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  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

WSW - 21 - 9 H213474-42 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	1120327	AC	03-Dec-21	4500-Cl-B	
Volatile Organic Compound	s 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 (Pl	(D)		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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Reported:

06-Dec-21 09:37



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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

WSW - 21 - 10 H213474-43 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes

	Cardinal Laboratories												
Inorganic Compounds													
Chloride	192	16.0	mg/kg	4	1120327	AC	03-Dec-21	4500-Cl-B					
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					
Petroleum Hydrocarbons by C	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					
Surrogate: 1-Chlorooctadecane		74.1 %	38.9-	142	1120309	MS	04-Dec-21	8015B					

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Celey D. Keine



## 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

Fax To: (432) 682-3946

Project Manager: CHRISTIAN LLULL

Reported: 06-Dec-21 09:37

## **Inorganic Compounds - Quality Control**

## **Cardinal Laboratories**

Analisa	D14	Reporting Limit	Units	Spike	Source	%REC	%REC	DDD	RPD	N-4
Analyte	Result	Limit	Units	Level	Result	%KEC	Limits	RPD	Limit	Notes
Batch 1120322 - 1:4 DI Water										
Blank (1120322-BLK1)				Prepared &	Analyzed:	03-Dec-21				
Chloride	ND	16.0	mg/kg							
LCS (1120322-BS1)				Prepared &	Analyzed:	03-Dec-21				
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (1120322-BSD1)				Prepared &	Analyzed:	03-Dec-21				
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
Batch 1120325 - 1:4 DI Water										
Blank (1120325-BLK1)				Prepared &	Analyzed:	03-Dec-21				
Chloride	ND	16.0	mg/kg							
LCS (1120325-BS1)				Prepared &	Analyzed:	03-Dec-21				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (1120325-BSD1)				Prepared &	Analyzed:	03-Dec-21				
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
Batch 1120327 - 1:4 DI Water										
Blank (1120327-BLK1)				Prepared &	: Analyzed:	03-Dec-21				
Chloride	ND	16.0	mg/kg							
LCS (1120327-BS1)				Prepared &	: Analyzed:	03-Dec-21				
Chloride	432	16.0	mg/kg	400		108	80-120			

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



## 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**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

## 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



## Analytical Results For:

**TETRA TECH** 

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI

Reported: 06-Dec-21 09:37

Project Number: 212-MD-02099-991

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

## Volatile Organic Compounds by EPA Method 8021 - Quality Control

## **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch	1120313	- Vol	latiles
-------	---------	-------	---------

Date 1120010 , Olatiles									
Blank (1120313-BLK1)				Prepared: 03-Dec	c-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	c-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	c-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. Keens

Celey D. Keene, Lab Director/Quality Manager



## 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**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch	1120314 -	Volatiles

Daten 1120314 - Volatiles									
Blank (1120314-BLK1)				Prepared & Anal	yzed: 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 & Anal	yzed: 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-BSD1)				Prepared & Anal	yzed: 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 & Analy	yzed: 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. Keine

Celey D. Keene, Lab Director/Quality Manager



## **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**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Ratch 1120315 - Volatiles										

LCS (1120315-BS1)				Prepared & Ana	lyzed: 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-BSD1)				Prepared & Ana	lyzed: 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



## 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
Batch 1120309 - General Prep - Organics										

Blank (1120309-BLK1)				Prepared: 03-Dec	c-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	c-21 Analyzed: (	)4-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-BSD1)				Prepared: 03-Dec	c-21 Analyzed: (	)4-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 - Organic	tch 1120310 -	0 - General Prep - Or	ganics
--	---------------	-----------------------	--------

Blank (1120310-BLK1)				Prepared & Analyz	zed: 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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Celey D. Keine



%REC

Limits

RPD

## Analytical Results For:

TETRA TECH

Analyte

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI

Source

Result

%REC

Project Number: 212-MD-02099-991

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

Spike

Level

Reported: 06-Dec-21 09:37

RPD

Limit

Notes

## Petroleum Hydrocarbons by GC FID - Quality Control

## **Cardinal Laboratories**

Units

Reporting

Limit

Result

Batch 1120310 - General Prep - Organics							
LCS (1120310-BS1)				Prepared & Ana	lyzed: 03-Dec-2	1	
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-BSD1)				Prepared & Ana	lyzed: 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			

<b>Batch 1120311</b>	- General Prep -	Organics
----------------------	------------------	----------

Blank (1120311-BLK1)				Prepared & Anal	lyzed: 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 & Anal	lyzed: 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	
	5.1.0		п	50.0	110	44.3-133	
Surrogate: 1-Chlorooctane	54.9		mg/kg	50.0	110	44.3-133	

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Celey D. Keene

QR-04



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

%REC

## Analytical Results For:

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Project: EVGSAU SATELLITE 1-2 TRUNK LI

Source

Project Number: 212-MD-02099-991

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

Spike

Reported: 06-Dec-21 09:37

RPD

## Petroleum Hydrocarbons by GC FID - Quality Control

## **Cardinal Laboratories**

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1120311 - General Prep - Organics										
LCS Dup (1120311-BSD1)				Prepared &	k 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

DRO >C10-C28 203 10.0 mg/kg 200 102 79.3-136 13.7 12.1 Total TPH C6-C28 400 10.0 400 100 85.3-130 11.7 11.6 mg/kg Surrogate: 1-Chlorooctane 50.7 50.0 101 44.3-133 mg/kg 103 38.9-142 Surrogate: 1-Chlorooctadecane 51.4 50.0 mg/kg

Reporting

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Celey D. Keene



## **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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Celey D. Keene

Time:

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

† Cardinal cannot accept verbal changes: Please fax written changes to (575) 393-2326



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST 24 Hour TAT

## 101 East Marland, Hobbs, NM 88240

	(575) 393-2326 FAX (575) 393-2476	2476	211.40		SISA IONO	IS REQUEST
Company Name:	Tetra Tech		BILL 10			
Project Manager:		stratech.com	P.O. #:			
Address: 901		00	Company: Tetra Tech	5		
		x Zip: 79701	Attn: Christian LI	rial		
hone #: 512	Phone #: 512-565-0190 Fax #:		Address:			
roject #: 2120	Project #: 2126-MD-02099-99   Project Owner: Tetra Tech	vner: Tetra Tech	City:	w 3		
Project Name:	EVGSAU Sate 11:16 1/2	Au Sate 11:36 1/2	State: Zip:		00	
Project Location:		Trunkline	Phone #:	0 (1	30	
Sampler Name:	Tourston Joh		Fax #:	_		
Sample Name.		MATRIX	PRESERV. SAMPLING	iG	25	
FOR LAB USE ONLY		R			ride	
Lab I.D.	Sample I.D.		DGE HER: D/BASE: / COOL HER:	TPH BTEX	Chlon	
HZ12474		# CO GRO WAS SOII	ACI ICE OTH	Т		
	£5-21-2	( )	X 12/2/21 09 00	0900 X	.×	
2	FS-21-3	_		0905		
ú	55-21-4			0910		
<del>-</del> (	55-21-5			0915		
<b>n</b> -	ES-21-6			0920		
50	54-21-7			0925		
35				0930		
20-	£5-21-9			0935		
2	FS-21-10	<	<	A A 0000	-	
10.	F3-21-11	6 ) ×	X 12/1/11	2/4/21 0945 X X	×	
PLEASE NOTE: Liability: analyses, All claims including service. In no event shall affiliates or successors are	PLEASE NOTE: Libbility 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 witing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without influsion, business inferruptions, toss of use, or loss of profits incurred by client, its subaddaries, services in no event shall Cardinal be liable for incidental or consequental damages, including without influsion, business inferruptions, toss of use, or loss of profits incurred by client, its subaddaries, and incident and	Cadina's liability and client's exclusive remedy for any claim arising whether based in contract or lort, shall be limited to the amount pack by the client for many applicance and any other cause whatscover shall be deemed waived unless made in writing and received by Cadinal within 30 days after completion of the a spligence and any other cause whatscover shall be deemed waived unless made in writing and received by Cadinal into 10 days after completion of the a second considerated by deem, its subadiaries let or incorderate or consequential damages, including without limitation, business inferruptions, toss of use, or loss of profits incurred by client, its subadiaries else for incorderate and consequential damages, including without limitation, business and incorderate by careful and the second consequence of services the extended by Cadinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	ittract or tot, shall be limited to the amount paid by the client it g and received by Cardinal within 30 days after completion of ons, loss of use, or loss of profits incurred by client, its subaid taim is based upon any of the above states reasons or others.	-	N.	ne#
Relinquished By:	Dat	Received By:		Phone Result: ☐ Yes Fax Result: ☐ Yes	S No Add'l Fax #:	
John Thurston		you &	Menson.	REMARKS:	now changed as per	0
Relinguished By:	By: Date:	Réceived By:			0	10/10/

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## 101 East Marland, Hobbs, NM 88240

(5	(575) 393-2326 FAX (575) 393-2476	393-2476				
Company Name:	Tetra Tech		BILL TO		ANALYSIS REQUEST	
Project Manager:	Christian. Lim	Project Manager: Christian, Llul Cretratech. com	P.O. #:			
Address: 901 W. Wall St	w. wall st Ste	100	Company: Tetra Tech	3		
city: Midland		State: TX Zip: 79701	Attn: Christian L	Limit		
Phone #: 512	Phone #: 512-515-0190 Fax #:	#	Address:			
Project #: 21とじ	Project #: 21とCMD-02999 ~991 Project Owner:	ect Owner: Tetra Toch	City:			
Project Name:	NAT ZO 10 NATON	Project Name: * 46EW OF 02 EVGSAU Safellite 1/2	State: Zip:			
Project Location:	Les County, NM		Phone #:			
Sampler Name:	Thurston, John		1	15		
FOR LAB USE ONLY		OMP.	PRESERV. SAMPLING	801		
Lab I.D.	Sample I.D.	G)RAB OR (C)( CONTAINERS ROUNDWATE VASTEWATER GOIL	CELOGE  CTHER:  ACID/BASE:  CE / COOL  CTHER:	TPH BTEX Chloric		
Liichil	F<-21-13	- # - *	×	0950 XXX		
7	- 1			0755		
r.	FS-21-15			1000		
4	FS-21-16			1005		
T	F5-21-17			0101		
91	FS-21-18			1015		
וח	FS-21-17			1020		
8	F3-21-20					
bl	F5-21-21	-		_		
PLEASE NOTE: Liability and analyses. All claims including	and Damages. Cardinal's liability and client's excluding those for negligence and any other cause wh	The property of the property o	I I I I I I I I I I I I I I I I I I I	>		
Relinquished By:  76NM Thurston	y: Day Thurston Tir	Date:  12 6 12  Received By:  Time:  545	of whether such claim is based upon any of the above stated in By:  M. MMWD8M	lt: ☐ Yes	□ No Add'l Phone #: □ No Add'l Fax #:	
Relinquished By:		Date: Received By:				
Delivered By:	Delivered By: (Circle One) 492	Sample Condition Cool Intact Types Types	rdition CHECKED BY:			
Cumpion of			No VVV			



## Rush 24 th TAT

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(5	(575) 393-2326 FAX (5/5) 393-24/6	5/5) 393-24/6				١	١	١		1		
Company Name:	Tetra Tech			BILL TO	70	1			ANALYSIS		KEQUEST	
Project Manager:	5	ull o Tetr	full @ Tetrestech. com	P.O. #:								
Address: 901		Ste. 100		Company: Fe	Fethertock			_				
city: Midland		State: ( X Zip: 7970)	p: 79701	Attn: Christian Lluy	lan Lluu							
Phone #: 512-56-0170		Fax #:		Address:				_				
Project #: 212C-A	-	Project Owner:		City:								
Project Name:		- EYGSAU	Satellitelli	State: Zip:	0:	1		1				
i ojeot		-		Dhono #		^	в	0	_	_	_	_
Project Location:	3		runkline	Phone #:		5	216	30		_		
Sampler Name:	John Thurston	700		1		) \	ō					
FOR LAB USE ONLY		D	MATRIX	PRESERV.	SAMPLING	80	8	de		-		
Lab I.D.	Sample I.D.	B OR (C)OM	TAINERS INDWATER EWATER	R: BASE:		PH '	TEX	hlori				
H2124		(0)	# CO GRO WA SOI OIL	OT	-	$\overline{}$		-	ļ	t		
21	FS- 24-22		G ) X	X 12	12/2/11 1040	×	×	×		-		
22	F5-21-23				1045	-				-		
23	NSW-21-1	1			1050							
42	NSW-21-2				1055					+		
25	NSW-21-3				1700							
26	ESW-21-1				11 05					+		
22	ES-21-2				1110				-			
28	ESW-21-3				1115							
29	ESW-21-4	4	<	<	V 1120	<	6	<		-		
B	ESW-21- 5		GiX	X 12	7	×	×	X		-	_	-
PLEASE NOTE: Liability and analyses All daims including service. In no event shall Can	Damages those for n	nt's exclusive remedy for any ause whatsoever shall be dee juental damages, including wi	Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the egligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within the for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits	tract or tort, shall be limited to the pand received by Cardinal within ins, loss of use, or loss of profits	ne amount paid by the client for the n 30 days after completion of the a lincurred by client, its subsidiaries	of the applica	ble					
Relinguished By:	ors arising out of or related to the performance or ad Bv:	Date:	Received By:	s of whether such claim is based upon any of the above stated By:	Phone Result:	Result:	□ Yes		Add'l Phone #:	one #:		
Vellindanier D.		Time: 12/3/11		Do MARIA	Fax Result:	sult:	□ Yes	□ No	Add'l Fax #:	*		
Relinguished By:	201010	-	Received By:	10000								

Sample Condition
Cool Intact
Pes Yes
No No

Delivered By: (Circle One) 4,92
Sampler - UPS - Bus - Other: 4,42

Time:

Sampler - UPS - Bus - Other:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Yes Yes



## 24 Hour Rush [A]

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(5	(575) 393-2326 FAX (575) 393-24/6	5) 393-24/6				l	١	١		PEOLIECT	
Company Name:	Tetra Tech			BILL TO		1	1	1	ANALTSIS	VEWOEG	
Project Manager:	7.	U o Fetra	tech som	P.O. #:		_		1			
Address: 901 W. wall	4	Ste 100		Company: Tetra fech	200		_				
city: Middlend, TX		State: TX Zip:	79701	Attn: Christish	HAN.						
Phone #: 512-56-0110		Fax #:		Address:		_					
Project #: 212C	3	oject Owner:	7	City:		_	-				
=	02	VGSAN S	te 1/2	State: Zip:		1	B	,0			
Project Location:	3	ZZ		Phone #:				30			
Sampler Name:	n thust			Fax #:			0:		_		
FOR LAB USE DNLY			MATRIX	PRESERV. SAMPLING	ING	80		ue			
FOR DIB USE OFFE		C)OMP.	TER ER				orid	0110			
Lab I.D.	Sample I.D.	G)RAB OR (	CONTAINE BROUNDWA VASTEWAT GOIL DIL SLUDGE	OTHER: ACID/BASE: CE/COOL OTHER:	TIME	TPL	Chi	Crit			
1	FSW - 21-1-	0	×		1130	×	X	^			
The state of the s	ESW-21-7				1135	-					
200	ESW-21-8				1140						
2					1145	-		+			
32	WSW-21-2				1150	-					
No.	WSW-21-3				1155	-					
72					1200			f			
35	45W-21-5				1205	-	+	-			
35	WSW-21-6	_	4	<		•	6				
dh.	WSW-21-7	exclusive remedy for any o	G   X	G   X   1441   12.15	paid by the client for the	*	X				
PLEASE NOTE: Liability and Da analyses. All claims including the service. In no event shall Cardina affiliates or successors arising ou	PLEASE NOTE: Lability and Damages. Cardinal's lability and client's excusive immorp to any came arrange more consequently and plant secret by Cardinal within 30 days after completion of the applicable analyses. At claims including those for negligence and any other cause whatsoever shall be deemed waived unless ander in withing 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, 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, 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.	exclusive remedy tor any on any one whatsoever shall be deen that damages, including with the damages, and the witces hereunder by Card	cam along when to be and it will be and to extend by Cardinal within 30 day emed valued unless made in withing and received by Cardinal within 30 day thout limitation, business interruptions, loss of use, or loss of profits incurre drial, regardless of whether such claim is based upon any of the above sta	d received by Cardinal within 30 days a loss of use, or loss of profits incurred t is based upon any of the above stated	after completion of the by client, its subsidiars reasons or otherwise	applicable	You		Add'l Phone #:		
Relinquished By:		T.	Received By:	Maria de la	Fax Result:		Yes	No S	Add'l Fax #:		
John Thu	Thurston	She! Pho	CHOCK I	TOWNSON !	NEWMANNO.						
Relinquished By:		Date:	Received By:								
Delivered By:	Delivered By: (Circle One) (LOT)	,	Sample Condition	tion CHECKED BY:							
Delivered by:											



## Rush 24 H (A)

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(5/5) 38.	(5/5) 393-2320 FAA (3/3) 333-24/0		200			>	ANALYSIS REQUEST	DIFST
Company Name: Tetro	Tetra Tech		BILL 10			,	ANT I GIO INTE	*oro.
Project Manager: Chris	Christian. Unl'ettatech.com	atch.com	P.O. #:					
Address: GOI W. Wall St	all st ste 100		1	Trech				
city: Midland	State: TX	Zip: 79701	ristan	1				
Phone #: 512 -56-0190	0190 Fax#:		Address:					
Project #: 2125-MD-0	-MD-0299-99   Project Owner: Textra	to Testa Tech	City:	4	<u>ч</u> в			
	Ot 02 FUGSA	FUGSAU Sabellite 1/2	State: Zip:					
2	county .	Trushline	Phone #:	16	15			
4	, thurston		Fax #:					
$\neg$	- 1	MATRIX	PRESERV. SAMPLING					
Lab I.D.	Sample I.D.	G)RAB OR (C)OMP CONTAINERS GROUNDWATER NASTEWATER SOIL DIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TOU	TPH	Chlorid		
	MSW-JI-X	- #	×	1220 >	×	X		
5	W5W-21-9	-	14421	1228 X	+	×		
M	W3W-21-10	× ×	× 1440	1230 ×	X	×		
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's excitantly seems and proceed to registerice and any other cause when the control of consequential or consequential.		y any daim arising whether based in co be deemed waived unless made in with lang without limitation, business interrup	sayer remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the associety for any claim arising whether based in contract or tort, shall be limited to the another based unless made in writing and received by Cardinal within 30 days after completion of the a ansoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the anatomic product of the same contract of the same c	d by the client for the er completion of the ap client, its subsidiaries,	plicable			
affiliates or successors arising out of or rel Relinquished By:	out of or related to the performance of services hereunder by Co Date: 12/3/21	s hereunder by Cardinal, regardless of whether such Received By:	daim is based upon any of the above stated re	Phone Result: Fax Result: REMARKS:	t: Yes	□ No	Add'l Phone #: Add'l Fax #:	
John Thurster Relinquished By:	Time: (045	Received By:	Menson	REMARKS:				
Delivered By: (Circle One) 4.92		Sample Condition  Cool Intact	checked by:					



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



## 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

Reported: 12/28/2021 Sampling Type: Soil
Project Name: VGEU 2801-02 FLOWLINE RELEASE Sampling Condition: \*\* (Se

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)

BTEX 8021B	mg	/kg	Analyze	ed 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 BTEX	<0.300	0.300	12/23/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	130	% 54.5-13	5						

## Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



## 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: Sampling Type: 12/28/2021 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 %	69.9-14	0						
Chloride, SM4500Cl-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	Analyze	d 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	% 54.5-13	5						

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Celeg D. Freene



## Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 12/22/2021 Sampling Date: 12/22/2021

Reported: 12/28/2021 Sampling Type: Soil

Fax To:

Project Name: VGEU 2801-02 FLOWLINE RELEASE Sampling Condition: \*\* (See Notes)

Project Number: 212C-MD-02099 Sample Received By: Tamara Oldaker

Applyzod By: MC/

Project Location: COP - LEA CO NM

ma/ka

## Sample ID: FS - 30 (H213699-03)

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	a 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	% 69.9-14	0						
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	Analyze	d 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	1						
Surrogate: 1-Chlorooctadecane	83.8	% 54.5-13	5						

## Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



## 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

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

## Sample ID: FS - 31 (H213699-04)

BTEX 8021B

	9/	9	7111411720	,					
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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 54.5-13	5						

Cardinal Laboratories \*=Accredited Analyte

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## Analytical Results For:

**TETRA TECH** CHRISTIAN LLULL 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 12/22/2021 Sampling Date: 12/22/2021

Reported: Sampling Type: 12/28/2021 Soil

Fax To:

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	Analyze	d 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	% 69.9-14	0						
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	Analyze	d 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	% 54.5-13	5						

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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

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

## Sample ID: FS - 39 (H213699-06)

BTEX 8021B

	<u> </u>			. , .,					
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	% 69.9-14	0						
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	Analyze	ed 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	% 54.5-13	5						

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## Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 12/22/2021 Sampling Date: 12/22/2021

Reported: 12/28/2021 Sampling Type: Soil

Fax To:

Project Name: VGEU 2801-02 FLOWLINE RELEASE Sampling Condition: \*\* (See Notes)
Project Number: 212C-MD-02099 Sample Received By: Tamara Oldaker

Applyzod By: MC/

Project Location: COP - LEA CO NM

ma/ka

## Sample ID: FS - 40 (H213699-07)

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	a 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	% 69.9-14	0						
Chloride, SM4500Cl-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	Analyze	d 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	1						
Surrogate: 1-Chlorooctadecane	77.4	% 54.5-13	5						

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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: Sampling Type: Soil 12/28/2021

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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/23/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d 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	1						
Surrogate: 1-Chlorooctadecane	80.3	% 54.5-13	5						

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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

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

## Sample ID: FS - 42 (H213699-09)

BTEX 8021B

	9,	9	7	7: : : : 0					
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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 54.5-13	5						

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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: Sampling Type: 12/28/2021 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)

BTEX 8021B	mg/	/kg	Analyze	d 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	92.1	% 69.9-14	0						
Chloride, SM4500Cl-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	Analyze	d 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	% 54.5-13	5						

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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

Applyzod By: MC/

Project Location: COP - LEA CO NM

ma/ka

## Sample ID: FS - 45 (H213699-11)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	12/23/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d 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	% 54.5-13	5						

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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

Applyzod By: MC/

Project Location: COP - LEA CO NM

ma/ka

## Sample ID: FS - 46 (H213699-12)

RTFY 8021R

BIEX 8021B	mg	/ Kg	Anaiyze	ea 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 (Pl	D 93.6	% 69.9-14	0						
Chloride, SM4500Cl-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	Analyze	ed 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	% 54.5-13	5						
<u> </u>									

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene

S-06



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

## **Notes and Definitions**

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

3-00	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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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page OI of O2

Project Manager:	Charles Ph		BILL TO	9		ANALYSIS REQUEST	UEST
Address:	Chashen Livil		P.O. #:		-		- Coro
	State: COM		Company: Tetra	Tech			
Phone #:	Day H. M.	cip:	Attn: Christian Lull	Llull			
			Address: by emai				
me.	Project (	ner:	City:				
Droinet Londing.	VETU 2801-03 Flowline	Roleose	State: Zip:				
Project Location:	Lea County, New Mexi		#		_		
Sampler Name:			Fax #				
COLUMN TO SERVICE ONLY	(	MATRIX	PRESERV. SAMPLING	ING			
Lab I.D.	Sample I.D.	WATER			s		
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alyses. All claims including the vice. In no event shall Cardina lates of allocations	analyses. All claims. Including those for negligence and any other cause whatever shall be demand whether based in contract or tort, shall be limited to the amount paid by the client for the accuracy whatever shall be demand waiter of make and any other cause whatever shall be demand waiter of make and in writing and the client for th	any claim arising whether based in contract or to deemed walved unless made in writing and recitive will be timbered to the second walved to the second to t	tort, shall be limited to the amount paid sceived by Cardinal within 30 days after	by the client for the completion of the applicable	× ×		
Relinquished By:	Date:	Cardinal, regardless of whether such claim is based	ased upon any of the above stated rea	ient, its subsidiaries, sans ar otherwise.			
La L	12-56-61 14-66-61	y walling		Phone Results:	Yes No	o Add'l Phone #: o Add'l Fax #:	
Relmquished By:/	Date:	Received By:	war ye	Christian Live			
	ircle One) 23.86 (-0,58	Sample	CH				
Sampler - UPS - BI	Bus - Other: ( 22.3 c	#1/3	(Initials)				
† Cardinal cann		fav with 22272	,				



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PLEASE NOTE: Lability and Damages. Cardina's liability and client's exclusive remedy for any dalm arising whether based in contract or fort, shall be limited to the amount paid by the client for the service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of used, or loss of profits incurred by client, its absolutiest.  Relinquished By:    Date:   Phone Results:   Phone Plax Received Plax Plax Plax Plax Plax Plax Plax Plax	City:  Phone #:  Project #:  Project Name:  Project Location:  Sampler Name:  FOR LAB USE ONLY  Lab I.D.  Lab I.D.  Sample I.D.  Sample I.D.  FS-45  11  FS-45  12  FS-46	Project Manager: Christian Lull
ity and clerify exclusive namedy for any claim arising whether based in contrary other cause whatsoever shall be deemed waived unless made in writing of consequental damages, including without limitation, business interruption formance of services hereunder by Cardinal regardless of whether such dall after.  Time:  Date:  Received By:  Time:  Cool Infact.	State: Zip: Fax #: NA Project Owner:  G(G)RAB OR (C)OMP.  # CONTAINERS  GROUNDWATER  WASTEWATER	1
whether based in contract or tort, shall be limited to the amount paid by the client for the dunits and in writing and received by Cardinal within 30 days after completion of the a less of whether such claim is based upon any of the above stated reasons or otherwise. Bed By:  Sample Condition  COOI Infact  Yes  CHECKED BY:  CHEC	Company: 7-Hm Tack  Address: CMcil  City:  State: Zip:  Phone #:  Fax #:  ACID/BASE: ACID/BASE: Y DATE TIME  X D-33-31 1400	PO.#
dry the client for the applicable frompletion of the applicable feet, its subsidiaries.  Phone Results: Yes No Fax Results: Yes No Christian Results to:	TPH	
Add'I Phone #: Add'I Fax #:	Hold	Page ∂⊋ of  ANALYSIS REQUEST
		60 JO 40



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



### 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	101 9	59.5-14	2						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### 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

Applyzod By: MC/

Project Location: COP - LEA CO NM

### Sample ID: FS - 29 ( 6' ) (H220124-02)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	97.4	% 59.5-14	2						

Cardinal Laboratories \*=Accredited Analyte

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Celey & Keene



### 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: Sampling Type: Soil 01/13/2022

Project Name: VGEU 2801-02 FLOWLINE RELEASE Sampling Condition: \*\* (See Notes) Project Number: Tamara Oldaker 212C-MD-02099 Sample Received By:

Project Location: COP - LEA CO NM

### Sample ID: FS - 31 ( 6' ) (H220124-03)

BTEX 8021B	mg/	kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	101 9	59.5-14	2						

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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

Cardinal Laboratories \*=Accredited Analyte

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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



## CHAIN-OF-C EST

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

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Page Ol of Ol

Company Name:	Conoco Phillips		BILL TO			ANALYSIS REQUEST
Project Manager:	Christian Unl		P.O. #:			
Address: chos	Christian. I'm a tom tech. COM	X	Company: Tetratech	5		
City:	State:	Zip:	het	cell		
Phone #:	Fax #: NA		Address: email			
Project #: 2/3C-	210C-MD-02099 Project Owner:	ň	City:			
Project Name: VC	VGELL 1801-02 Flowling	Release	State: Zip:			
Project Location:	County		#			
Sampler Name:	1,		Fax #:			
FOR LAB USE ONLY	0	MATRIX				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TPH	BTEX Chlorides	Hold
4	FS-28 (6')	× ×	CE-E-1 X	1300 X	< ×	
Cu	-31	-	<	1426 X	x >	
LEASE NOTE: Liability and Damage nalyses. All claims including those to evice. In no event shall Cardinal be evice. In no event shall Cardinal be	LEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be finited to the amount paid by the client for the nailyses. All claims including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable enrice. In no event shall Cardinal to slable for inclored equential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, illiaints 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.	ny daim arising whether based in col deemed waived unless made in writh without limitation, business interrupti ardinal, regardless of whether such o	tract or tort, shall be limited to the amount paid by the client for the grant received by Cardinal within 30 days after completion of the orns, loss of use, or loss of profits incurred by client, its subsidiarities to state departs or otherwise.	he client for the pleton of the applicable its subsidiaries.		
Le Tyle	Date:	Received By:	Malde	lts to	□ Yes □ No	Add'l Phone #: Add'l Fax #:
Relinquished By:	Date:	Received By:	Crement	Christianilel	101	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	25.20		CHECKED BY: (Initials)	24- hour	rush	
	1 24.7	1/1	1			

### **APPENDIX E Photographic Documentation**



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View east. Release area. Adjacent well (API # 30-025-33710) in the background.	1
212C-MD-02099	SITE NAME	VGEU 01-02 Flowline Release	3/25/2020



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View southeast. Eastern portion of the scraped release area.	2
212C-MD-02099	SITE NAME	VGEU 01-02 Flowline Release	3/25/2020



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View north. Release extent. Lease pad for adjacent well (API # 30-025-33710).	3
212C-MD-02099	SITE NAME	VGEU 01-02 Flowline Release	3/25/2020



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View northwest. Release area and the source of the release on the flowline.	4
212C-MD-02099	SITE NAME	VGEU 01-02 Flowline Release	3/25/2020



TETRA TECH, INC.	DESCRIPTION	View south. Excavation progress in northwest portion of the release footprint.	5
212C-MD-02099	SITE NAME	VGEU 01-02 Flowline Release	10/05/2021



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View north-northeast. Incident release point and release area.	6
212C-MD-02099	SITE NAME	VGEU 01-02 Flowline Release	10/25/2021



TETRA TECH, INC.	DESCRIPTION	View northwest. Excavation progress in central portion of the release footprint.	7
PROJECT NO. 212C-MD-02099	SITE NAME	VGEU 01-02 Flowline Release	10/07/2021



TETRA TECH, INC.	DESCRIPTION	View north. Incident release footprint outside of the VGEU 01-02 release area.	8
PROJECT NO. 212C-MD-02099	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.	DESCRIPTION	View east. Repaired trunk line.	11
212C-MD-02099	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.	DESCRIPTION	View southwest. Western portion of the remediated area.	13
PROJECT NO. 212C-MD-02099	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.	DESCRIPTION	View east. Central portion of the remediated area.	15
212C-MD-02099	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.	DESCRIPTION	View southwest. Central portion of the remediated area.	18
PROJECT NO. 212C-MD-02099	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

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:	OGRID:
CONOCOPHILLIPS COMPANY	217817
600 W. Illinois Avenue	Action Number:
Midland, TX 79701	96538
	Action Type:
	[C-141] Release Corrective Action (C-141)

### CONDITIONS

Created E	ty Condition	Condition Date
rhamle	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