Limited Phase II Environmental Site Assessment

Proposed Chick-fil-A Restaurant No. 04434
Silver Creek & Capital FSU
3095 Silver Creek Road
San Jose, California

Prepared For:

Chick-fil-A, Inc.
Irvine, California

April 6, 2022
Project No. 2E-2110007

GILES
ENGINEERING ASSOCIATES, INC.

GILES
ENGINEERING ASSOCIATES, INC.
GEOTECHNICAL, ENVIRONMENTAL & CONSTRUCTION MATERIALS CONSULTANTS

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• Manassas, VA
• Milwaukee, WI

April 6, 2022

Chick-fil-A, Inc.
15635 Alton Parkway, Suite 350
Irvine, CA 92618

Attention: Ms. Brenda Porrazzo
Senior Specialist, Strategic Insights

Subject: Limited Phase II Environmental Site Assessment - DRAFT
Proposed Chick-fil-A Restaurant 04434
Silver Creek & Capital FSU
3095 Silver Creek Road
San Jose, California
Giles Project No. 2E-2110007

Dear Ms. Porazzo:

In accordance with your request and authorization, Giles Engineering Associates, Inc. has completed a Limited Phase II Environmental Site Assessment for the above-referenced property. Descriptions of the completed work, findings, conclusions, and recommendations are detailed in the accompanying report.

We appreciate and thank you for the opportunity to be of service on this project. If there are any questions or concerns, or you require additional information regarding the information contained herein, please contact the undersigned.

Sincerely,

GILES ENGINEERING ASSOCIATES, INC.

Carey Pumpelly
Staff Geologist II

Michael F. Pisarik
Regional Director

Distribution: Chick-fil-A, Inc.
Attn: Ms. Brenda Porrazzo (email: Brenda.Porrazzo@cfacorp.com)
Mr. Keith Gilbert (email: Keith.Gilbert@cfacorp.com)
Ms. Katherine Light (email: Katherine.Light@cfacorp.com)
Ms. Leanna Su (email: Leanna.Su@cfacorp.com)
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TABLE OF CONTENTS

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT - DRAFT

PROPOSED CHICK-FIL-A RESTAURANT 04434
SILVER CREEK & CAPITOL FSU
3095 SILVER CREEK ROAD
SAN JOSE, CALIFORNIA
GILES PROJECT NO. 2E-2110007

LIST OF FIGURES

LIST OF TABLES

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT - DRAFT

PROPOSED CHICK-FIL-A RESTAURANT 04434
SILVER CREEK & CAPITOL FSU
3095 SILVER CREEK ROAD
SAN JOSE, CALIFORNIA
GILES PROJECT NO. 2E-2110007

EXECUTIVE SUMMARY

Chick-fil-A, Inc. (CFA) retained Giles Engineering Associates, Inc. (Giles) to provide pre-acquisition/redevelopment due diligence environmental consulting services for a property located at 3095 Silver Creek Road, San Jose, Santa Clara County, California (the Site). CFA is considering redeveloping the Site into a new CFA restaurant (store number 04434). Giles initially completed a September 14, 2021, draft Phase I Environmental Site Assessment (Phase I ESA) for the Site (Giles project 2E-2108003).

The approximately 0.93-acre Site is composed of one parcel (APN: 670-15-018) located near the west corner of Silver Creek Road and Capital Expressway. The Site was developed for agricultural land use (orchard, then cropland) between 1939 and 1976. The Site was redeveloped into a paved parking lot by 1981 and has remained unchanged to the present. No recognized environmental conditions (RECs) associated with historic Site use were identified in the Giles Phase I ESA. We understand Chick-fil-A will be purchasing this property.

A retail gasoline station (Silver Creek Car Wash) has operated southeast and adjacent to Site between 1984 and the present. This property is a closed leaking underground storage tank (LUST) site with three closed LUST cases. Low (below regulatory screening levels) concentrations of petroleum fuel compounds were detected in soil and groundwater. All the LUST cases were closed by 2003 with residual impacted soil and groundwater left in place. Soil and groundwater were not analyzed for a full suite of volatile organic compounds (VOCs) or semi-volatile organic compounds (SVOCs). In addition, soil gas sampling and analyses were not performed.

A retail gasoline station (Tony's Unocal) operated approximately 200 feet northwest of the Site between 1976 and 2000. This property is an open LUST site. Investigation and remediation for release petroleum fuel was completed between 1990 and 2004, and groundwater monitoring has continued to the present. Soil and groundwater were not analyzed for a full suite of VOCs or SVOCs, and soil gas sampling and analyses were not performed.

Based upon off-site investigations by others during January 2021, groundwater is believed to be about 25 feet below ground surface (bgs) and flow southwest across the Site.

The following recognized environmental conditions (RECs) including vapor encroachment conditions that could impact soil, groundwater, and soil gas at the Site were identified in the Giles Phase I ESA.

- Residual soil and groundwater impacts at the Silver Creek Car Wash gasoline station located adjacent to and southeast of the Site.
- Residual soil and groundwater impacts at Former Tony's Unocal gasoline station located 200 feet northwest of the Site.

Giles recommended that a Limited Phase II ESA (Phase II ESA) be completed to evaluate potential soil, groundwater, and soil gas impacts at the Site from the identified RECs.

Giles performed the field activities for the Phase II ESA on January 13, 17, and 18, 2022. Seven soil borings were completed to evaluate subsurface conditions. Soil samples collected from borings MW-1, MW-2, and MW-3, and VP-1 through VP-4 were described, field screened using a photoionization detector (PID), and laboratory analyzed for VOCs, SVOCs, and Resource Conservation and Recovery Act (RCRA) metals including trivalent and hexavalent chromium. Borings MW-1 through MW-3 were completed to a common termination depth of thirty-five feet below ground surface (bgs). Borings VP-1 through VP-4 were advanced to six feet bgs and completed as temporary soil gas monitoring points. Soil gas samples were collected from VP-1 through VP-4 and submitted to a California-accredited laboratory to be analyzed for VOCs.

Soil sample laboratory results were compared to their respective current California Environmental Protection Agency Department of Toxic Substance Control (DTSC) soil screening levels (SLs) for residential and commercial land use properties. The DTSC does not have groundwater protection SLs for soil; therefore, soil results also were compared to United States Environmental Protection Agency (USEPA) groundwater protection soil screening levels (SSLs). The groundwater sample laboratory results were compared to their respective current DTSC tap water SL (for non-public water supplies) and California maximum contaminant level (CMCL). The CMCLs are drinking water standards that must be met for public water supplies. Soil gas sample laboratory results were compared to their respective current calculated DTSC ambient air SL for residential and commercial land use properties. Calculated DTSC ambient air SLs were used to account for attenuation of the compounds as they move through the ground and into a building. The DTSC SLs and USEPA SSLs are used for initial health risk screening assessment and to evaluate the need for further investigation or evaluation and are not intended as cleanup levels.

The following conclusions and recommendations are provided based upon findings of this Phase II ESA.

- The Site is currently developed with an asphalt parking lot. The ground surface at the Site is generally flat.
- Approximately three inches of surficial asphalt pavement over three inches of base course was encountered within each of the borings. The asphalt pavement was underlain by fine silty sands and sandy silts that extended to at least 45 feet bgs, the maximum depth explored. Groundwater was encountered during drilling activities at the Site at depths ranging from 33 feet bgs to 38 feet bgs.
- Low PID responses were measured in unsaturated soil samples from borings MW-1 through MW-3, and VP-1 through VP-4. No unusual soil staining or odors were observed in samples from any of the borings.
- Given the proposed use of the Site for a restaurant, the DTSC-SLs/USEPA RSLs for commercial land use are the appropriate screening levels for considering the potential that chemicals in the soil present a risk to workers or occupants.
- The VOCs 2-butanone and acetone were detected in one or more soil samples collected from the Site below their residential and commercial DTSC SLs and/or USEPA SSLs. Additional VOCs were not identified in soil samples collected from the Site. Therefore, no further environmental investigation with respect to VOCs in soil at the Site is warranted.

- SVOCs were not identified in soil samples collected form the Site. Therefore, no further environmental investigation with respect to VOCs in soil at the Site is warranted.
- Arsenic concentrations exceeded the DTSC-SLs for both residential and commercial land use and the USEPA SSL for groundwater protection in all soil samples collected at the Site. However, all arsenic concentrations were within the range of background concentrations for California (UC, 1996).
- Barium concentrations were below USEPA RSLs for residential and commercial land use in all soil samples collected from the Site, but the barium concentrations exceeded the USEPA SSL for groundwater protection. All barium concentrations were below the range of background concentrations for California (UC, 1996).
- One soil sample contained cadmium above the DTSC-SLs for both residential and commercial land use and the USEPA SSL for groundwater protection in all soil samples collected at the Site. However, the cadmium concentration was within the range of background concentrations for California (UC, 1996).
- One soil sample contained thallium above the DTSC-SLs for residential land use but below the DTSC-SLs for commercial land use and the USEPA SSL for groundwater protection. The thallium concentration was within the range of background concentrations for California (UC, 1996).
- There was no hexavalent chromium detected in any of the soil samples.
- Cobalt was detected in all soil samples collected from the Site at concentrations above the DTSC-SLs for residential land use and USEPA SSLs for groundwater protection, but below the DTSC-SLs for industrial land use. In addition, the cobalt concentrations were within the range of background concentrations for California (UC, 1996).
- Copper was detected in all soil samples collected from the Site at concentrations below the DTSC-SLs for residential and commercial land use, but above the USEPA SSLs for groundwater protection. However, the copper concentrations were within the range of background concentrations for California (UC, 1996).
- Mercury was detected in all soil samples collected from the Site at concentrations below the DTSC-SLs for residential and commercial land use, but above the USEPA SSLs for groundwater protection. However, the mercury concentrations were within the range of background concentrations for California (UC, 1996).
- The concentrations of all other detected Title 22 metals were below the applicable regulatory screening levels for residential land use, commercial land use, and groundwater protection.
- Therefore, no further environmental investigation with respect to Title 22 metals in soil at the Site is warranted
- A composite sample of the soil generated from the Site investigation was collected and analyzed for TPH, VOCs, SVOCs, and Title 22 Metals. The analytical results were consistent with the soil samples collected from the individual boring locations.
- An appropriate licensed disposal facility or other commercial/industrial property should be identified for the soil cuttings using the composite sample analytical results. The waste soil can be disposed of after written approval from the disposal site owner is obtained.
- The VOC dichlorodifluoromethane was identified in one groundwater sample collected form the Site at a concentration below its DTSC and USEPA tap water screening levels

and CMCLs. Additional VOCs were not identified in the groundwater samples collected at the Site. Therefore, no further environmental investigation with respect to VOCs in groundwater at the Site is warranted.

- The SVOC caprolactam was identified in two of the groundwater samples collected at the Site at a concentration below its DTSC and USEPA tap water screening levels and CMCLs. Additional SVOCs were not identified in the groundwater samples collected at the Site. Therefore, no further environmental investigation with respect to SVOCs in groundwater at the Site is warranted.
- Arsenic, barium, chromium, lead, nickel, vanadium, and mercury (Title 22 metals) were detected in one or more groundwater samples above their respective DTSC tap water SL or CMCLs during the initial groundwater sampling on January 22, 2022. Giles returned to the Site to resample the groundwater on February 23, 2022. The concentrations of arsenic, barium, chromium, lead, nickel, and mercury were below DTSC and USEPA tap water screening levels and CMCLs.

  During the February 2022 resampling event, vanadium was identified in one groundwater sample from MW-3 at concentrations above its USEPA Tap Water SLs. There was no source of vanadium use at the Site identified in the September 2021 Phase I ESA. The detected vanadium was likely a result of suspended solids in the samples rather than dissolved metals. The Site is served by a municipal public water supply and there are no potable wells at the Site.

  During the February 2022 resampling event, antimony was identified in two of the groundwater samples collected at the Site above its DTSC tap water SL and CMCLs. Giles noted that the original concentration of antimony during the Phase II activities in January 2022 was below detectable limits (BDL). Giles requested the two groundwater samples be reanalyzed. Reanalysis of groundwater samples did not identify antimony above detectable limits.
- Concentrations of benzene, bromodichloromethane, and chloroform were detected in the soil gas above the calculated DTSC-SLs for residential land use, but below their calculated DTSC-SLs for commercial land use. No other VOCs were detected above their respective calculated DTSC ambient air SLs for residential or commercial land uses. The risk of vapor intrusion for the proposed CFA structure to be located on the Site is considered to be low. It is Giles opinion a vapor mitigation system is not necessary for the site CFA may wish to complete a business risk tolerance evaluation to further discuss and evaluate the need for vapor mitigation measures.
- The soil analytical data do not reveal chemical concentrations in the soil that are known to be hazardous to construction workers, restaurant employees, or patrons.
- If workers encounter evidence of impacted soil during excavation or construction, they should maintain a safe distance from the suspected impacted soil until the soil is evaluated by a qualified environmental professional and any hazardous conditions are mitigated.
- Three groundwater monitor wells remain at the Site. Giles recommends that groundwater monitor wells MW-1, MW-2, and MW-3 be properly abandoned after they are no longer needed.
- Giles recommends that CFA seek legal counsel regarding potential indemnification for financial liabilities associated with the impacted media identified on the Site.

1. INTRODUCTION

Giles Engineering Associates, Inc. (Giles) performed a Limited Phase II Environmental Site Assessment (Phase II ESA) of a property located at 3095 Silver Creek Road, San Jose, Santa Clara County, California (the Site). The general Site location is shown on Figure 1. Important information about this geoenvironmental report is included in Appendix A.

The purpose of the Phase II ESA was to evaluate subsurface materials and the presence of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and Title 22 metals identifying both trivalent and hexavalent chromium in soil, and VOCs in soil gas. The field activities were performed in general accordance with applicable State of California and American Society for Testing and Materials (ASTM) standards and guidance.

2. BACKGROUND INFORMATION

Chick-fil-A, Inc. (CFA) is considering redeveloping the Site into a new CFA restaurant number 04434. CFA retained Giles to provide pre-acquisition due diligence environmental consulting services for the Site. Giles initially completed a September 14, 2021, draft Phase I Environmental Site Assessment (Phase I ESA) for the Site (Giles project 2E-2108003). Pertinent findings of the Phase I ESA are provided below.

The approximately 0.93-acre Site is composed of one parcel (APN: 670-15-018) located near the west corner of Silver Creek Road and Capital Expressway. The Site was developed for agricultural land use (orchard, then cropland) between 1939 and 1976. The Site was redeveloped into a paved parking lot by 1981 and has remained unchanged to the present. No recognized environmental conditions (RECs) associated with historic Site use were identified in the Giles Phase I ESA. We understand Chick-fil-A will be purchasing this property.

A retail gasoline station (Silver Creek Car Wash) has operated southeast and adjacent to Site between 1984 and the present. This property is a closed leaking underground storage tank (LUST) site with three closed LUST cases. Low (below regulatory screening levels) concentrations of petroleum fuel compounds were detected in soil and groundwater. All the LUST cases were closed by 2003 with residual impacted soil and groundwater left in place. Soil and groundwater were not analyzed for a full suite of volatile organic compounds (VOCs) or semi-volatile organic compounds (SVOCs). In addition, soil gas sampling and analyses were not performed.

A retail gasoline station (Tony's Unocal) operated approximately 200 feet northwest of the Site between 1976 and 2000. This property is an open LUST site. Investigation and remediation for release petroleum fuel was completed between 1990 and 2004, and groundwater monitoring has continued to the present. Soil and groundwater were not analyzed for a full suite of VOCs or SVOCs, and soil gas sampling and analyses were not performed.

Based upon off-site investigations by others during January 2021, groundwater is believed to be about 25 feet below ground surface (bgs) and flow southwest across the Site.

The following recognized environmental conditions (RECs) including vapor encroachment conditions that could impact soil, groundwater, and soil gas at the Site were identified in the Giles Phase I ESA.

- Residual soil and groundwater impacts at the Silver Creek Car Wash gasoline station located adjacent to and southeast of the Site.
- Residual soil and groundwater impacts at Former Tony's Unocal gasoline station located 200 feet northwest of the Site.

Giles recommended that a Limited Phase II ESA be completed to evaluate potential soil and soil gas impacts at the Site from the identified RECs in the Phase I ESA. The Phase II ESA was authorized by Ms. Brenda Porrazzo of CFA and completed in general conformance with a Giles proposal 2EP-2109017 dated October 26, 2021.

3. SCOPE OF SERVICES

The scope of services completed for the Phase II ESA included the following tasks.

- Obtained a permit to install two groundwater monitor wells from Valley Water.
- Prepared and implemented a site-specific health and safety plan in accordance with 29 CFR 1910 for all field activities performed at the Site.
- Marked boring locations. Arranged for public utility locator and retained private utility locator to clear boring locations.
- Completed three hollow-stem auger (HSA) borings to approximately 35 feet bgs to obtain soil samples. Installed a California-compliant 2-inch PVC groundwater monitor well in each boring and completed with a flush-mount traffic-rated protective cover.
- Completed 4 hand-augered soil borings to 6 feet bgs to obtain soil and soil gas samples. Installed temporary soil gas monitoring points in each boring between 5 and 6 feet to facilitate soil gas sample collection. Collected one soil gas sample from each soil gas point and submitted the samples to a California-accredited laboratory for volatile organic compounds (VOCs) analysis using method TO-15.
- Described and field screened soil encountered in the borings for organic vapors using a photoionization detector.
- Collected and submitted one soil sample from each boring for laboratory analyses by a California-accredited laboratory. The samples were analyzed for VOCs using SW846 Method 8260B, semi-volatile organic compounds (SVOCs) using SW846 Method 8270C, and Title 22 metals including trivalent and hexavalent chromium using applicable SW846 Methods 6010C, 7196A, or 7471B. In addition, collected one composite sample of soil from all borings and analyzed for VOCs, SVOCs, total petroleum hydrocarbons and California Title 22 metals to characterize the soil for disposal.
- Developed and purged the wells. Collected one groundwater sample from each well and submitted them for laboratory analyses by a California-accredited

laboratory. The groundwater samples will be analyzed for VOCs, SVOCs, and RCRA metals using the above-referenced applicable methods.

- Drummed soil and water generated from the borings and arranged for their proper disposal.
- Properly backfilled the shallow borings in accordance with state and local requirements.
- Verified, reduced, and evaluated the data, and prepared a draft Phase II ESA report that summarized the tasks performed and field and laboratory results, and provided recommendations.
- Provided post-draft report consultation.
- Project management and peer review.

4. SITE DESCRIPTION

4.1. Setting and Location

The Site is located at 3095 Silver Creek Road in San Jose, Santa Clara County, California. The 0.74-acre subject property is part of a larger 9.9-acre parcel addressed as 3155 Silver Creek Road. The subject property is situated at latitude 37.3076º north, longitude -121.8120º west. The following Figure 1 illustrates the generalized location of the subject property.

4.2. Historic and Current Site Use

The approximately 0.93-acre Site is composed of one parcel (APN: 670-15-018) located near the west corner of Silver Creek Road and Capital Expressway. The Site was developed for agricultural land use (orchard, then cropland) between 1939 and 1976. The Site was redeveloped into a paved parking lot by 1981 and has remained unchanged to the present.

5. INVESTIGATION PROCEDURES

Giles used several methods to investigate for the presence of impacts to soil and soil gas at the Site. The methods used to investigate soil and soil gas quality are described below.

5.1. Soil Sampling, Screening, and Analyses

The field activities for this Phase II ESA were completed on January 13, 17, and 18, 2022. Giles retained Environmental Geoservices, Inc. to complete the soil borings MW-1, MW-2, and MW-3 using a track-mounted Geoprobe® 6600 direct-push drill rig equipped with a 4-foot long, 2-inch diameter sampling tool fitted with an acetate liner. Environmental Geoservices obtained soil from borings VP-1 through VP-4 using a 2-inch diameter hand auger.

A Giles geologist maintained a log of each borehole, field screened the soil, and collected samples for laboratory analysis. No lubricants or solvents were used on any downhole boring or sampling equipment. A portion of each sampled interval was immediately

transferred into a 1-quart resealable plastic bag stored on ice in a cooler where it was maintained chilled for possible laboratory analysis.

A duplicate portion of each sampled interval was subjected to headspace analysis for VOCs using a PID in the field. The headspace analysis sample was sealed in a 1-quart plastic bag. Care was taken to maintain a relatively constant soil volume-to-headspace volume ratio for all samples. The sealed headspace sample was agitated to break up the soil before being left in a warm environment for at least 20 minutes to allow volatilization to occur. The PID probe was inserted into the bag and the highest stable response occurring in 10 to 20 seconds was recorded. A Rae Systems MiniRae Model PGM-7300 portable gas monitor equipped with a 10.6 electron-volt lamp was used to field screen the samples. The PID calibration was checked before use using isobutylene (benzene equivalent) calibration gas.

Each sampled interval was visually described in general conformance with ASTM D-2488 in the field. Logs were prepared presenting information on color, soil type, grain size distribution, odor, moisture content, and PID response. The boreholes were backfilled in accordance with SBCEHS and California requirements using fully hydrated granular bentonite after sampling was completed.

The soil sample from each boring determined to have the greatest potential impacts was selected for laboratory analysis. Factors considered to select which soil sample from each boring to analyze included PID response, appearance, and odor. If no apparently impacted samples were encountered, soil intervals were selected for laboratory analysis from different depth intervals from different borings. Samples selected for laboratory analyses were transferred from the initially collected sample portion into labeled laboratory prepared and preserved containers. Soil samples were packed with ice in a cooler and shipped via FedEx under chain-of-custody protocol to document sample number, date/time collected, requested analyses, and handling to Eurofins/Test America Laboratories, Inc. (Eurofins) for analyses. The samples were analyzed for VOCs using EPA Method 8260B; SVOCs using EPA Method 8270C; and RCRA metals plus Cr^{3+} and Cr^{6+} using applicable EPA Methods 6010B, 7471, and 7196A.

5.2. Soil Gas Point Construction, Sampling, and Analysis

Environmental Geoservices installed a temporary soil gas point in each boring VP-1 through VP-4. The soil gas points were constructed using a 1-inch-long filter joined to the down-hole end of an 8-foot length of ¼-inch diameter Teflon® tubing. The down-hole end of the tubing was placed at approximately 5.5 feet below ground surface (bgs). Filter sand was used to fill the boring to 5 feet bgs, and hydrated granular bentonite was used to fill the remainder of the borings and formed the soil gas point seal.

Soil gas samples were collected from each temporary soil gas point after at least two hours after the vapor point was installed. Each sample was collected by joining the soil gas point tubing to an evacuated 1-liter Summa canister. Each sample was collected in the Summa canister using a 200-milliliter per minute flow regulator for a period of approximately 5 minutes. The samples were shipped via FedEx under chain-of-custody documentation that included sample numbers, dates and times collected, requested analyses, and handling information to Eurofins for analyses. Eurofins analyzed the soil gas samples for VOCs using EPA Method TO-15.

5.3. Investigation-Derived Waste Management

Soil generated from the borings was placed in a labeled drum, sampled for waste characterization, and staged on site. The waste characterization analytical results were generally consistent with the results of soil samples collected from individual boring locations. The laboratory analytical report is included in Appendix E. The drummed soil will be removed and properly transported and disposed at an off-site licensed treatment/disposal facility.

6. INVESTIGATION RESULTS AND DISCUSSION

The field activities were performed on January 13, 17, and 18, 2022. The Phase II ESA results are presented and discussed below.

6.1. Subsurface Soil and Hydrogeologic Conditions

Borings MW-1, MW-2, and MW-3 were advanced to depths between 40 and 45 feet bgs. Borings VP-1 through VP-4 were advanced to 6 feet bgs. The soil borings provided information about subsurface materials at the Site.

Approximately three inches of surficial asphalt pavement over three inches of base coarse was encountered within each of the borings. The asphalt pavement was underlain by fine silty sandy clay and sandy silts to at least 45 feet bgs, the maximum depth explored. Soil boring permits and soil boring logs are included in Appendix B.

Groundwater was encountered during drilling activities on the Site between 33 feet bgs and 38 feet bgs.

6.2. Soil Sample Field Screening and Laboratory Analytical Results

The soil sample field screening and laboratory results are provided and discussed below. Soil sample laboratory results were compared to their respective current California Environmental Protection Agency Department of Toxic Substance Control (DTSC) soil screening levels (SLs) for residential and commercial land use sites (DTSC, 2020). Where there is no DTSC-SL, soil analytical results were compared to United States Environmental Protection Agency (USEPA) Regional Screening Levels (RSLs) for commercial and residential land use (USEPA, 2021). In addition, analytical results were compared to USEPA's soil screening levels (SSLs) for groundwater protection (USEPA, 2021). DTSC does not have groundwater protection soil SLs. The screening levels generally are used to evaluate the need for further investigation or evaluation and are not intended as cleanup level. For RCRA metals, data were also compared to the background concentrations reported by the Kearney Foundation for Soil Science in March 1996. The laboratory report and chain-of-custody documentation are provided in Appendix C.

6.2.1. Field Screening

Low (less than 10 parts per million, or ppm) PID responses were measured in unsaturated soil samples from borings VP-1 through VP-4, and in unsaturated soils from less than 20 ft bgs in borings MW=1 through MW-3. No unusual soil staining or odors were observed in samples from any of the borings. PID field screening results are shown on the borehole logs in Appendix B.

6.2.2. Soil Analytical Results

6.2.2.1. VOC Analytical Results

The VOCs 2-butanone and acetone were detected in one or more soil samples collected from the Site below their residential and commercial DTSC SLs and/or USEPA SSLs. Additional VOCs were not identified in soil samples collected from the Site.

6.2.2.2. SVOC Analytical Results

SVOCs were not identified in soil samples collected form the Site.

6.2.2.3. Title 22 Metals, Trivalent Chromium, and Hexavalent Chromium Analytical Results

Arsenic concentrations exceeded the DTSC-SLs for both residential and commercial land use and the USEPA SSL for groundwater protection in all soil samples collected at the Site. However, all arsenic concentrations were within the range of background concentrations for California (UC, 1996).

Barium concentrations were below USEPA RSLs for residential and commercial land use in all soil samples collected from the Site, but the barium concentrations exceeded the USEPA SSL for groundwater protection. All barium concentrations were below the range of background concentrations for California (UC, 1996).

One soil sample contained cadmium above the DTSC-SLs for both residential and commercial land use and the USEPA SSL for groundwater protection in all soil samples collected at the Site. However, the cadmium concentration was within the range of background concentrations for California (UC, 1996).

One soil sample contained thallium above the DTSC-SLs for residential land use but below the DTSC-SLs for commercial land use and the USEPA SSL for groundwater protection. In addition, the thallium concentration was within the range of background concentrations for California (UC, 1996).

There was no hexavalent chromium detected in any of the soil samples.

Cobalt was detected in all soil samples collected from the Site at concentrations above the DTSC-SLs for residential land use and USEPA SSLs for groundwater protection, but below the DTSC-SLs for industrial land use. In addition, the cobalt concentrations were within the range of background concentrations for California (UC, 1996).

Copper was detected in all soil samples collected from the Site at concentrations below the DTSC-SLs for residential and commercial land use, but above the USEPA SSLs for groundwater protection. However, the copper concentrations were within the range of background concentrations for California (UC, 1996).

Mercury was detected in all soil samples collected from the Site at concentrations below the DTSC-SLs for residential and commercial land use, but above the USEPA SSLs for groundwater protection. However, the mercury concentrations were within the range of background concentrations for California (UC, 1996).

The concentrations of all other detected Title 22 metals were below the applicable regulatory screening levels for residential land use, commercial land use, and groundwater protection.

The Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California published background concentrations of elements, including RCRA metals, in California soils in their report *Background Concentrations of Trace and Major Elements in California Soils* (UC, 1996). Except for the single detection of selenium in the soil sample from boring B-2, all detected RCRA metals concentrations were within or less than their reported range of background concentrations.

6.3. Groundwater Monitoring Well Construction and Sampling Methods

The LADPH monitor well construction permit is included in Appendix B. Environmental Geoservices installed permanent groundwater monitor wells in borings MW-1 through MW-3 to facilitate groundwater sample collection.

The wells consisted of a 25-foot length of 2-inch diameter polyvinyl chloride (PVC) mill-slotted well screen flush-threaded to a length of blank PVC riser casing to extend the well to the ground surface. Filter sand was used to fill the borehole annulus to two feet above the well screen. Three feet of hydrated chipped bentonite was place above the sand and cement-bentonite grout was used to fill the annulus to two feet below ground surface (bgs) and formed the well surface seal. Concrete was placed between the grout and ground surface and formed the surface seal. A traffic-rated flush-mount well protector was installed over the well head. No glues, solvents, lubricants, or similar substances were used to construct the well.

The monitor wells were purged and sampled on January 21, 2022 and February 22, 2022. A new single-use polyethylene bailer was used to purge each well. Giles noted that the groundwater was orange and muddy, with high turbidity. Groundwater quality samples were collected using a new single-use polyethylene bailer.

Samples collected for organics analyses were transferred directly from the bailer into labeled, and laboratory prepared and preserved containers. Samples collected for metals analyses were field filtered through a 0.45 micrometer filter before transferring the sample into labeled laboratory prepared and preserved containers and immediately packed with ice in a cooler. The samples were delivered by FedEx under chain-of-custody protocol to document sample number, date/time collected, requested analyses, and handling to Eurofins for analyses. The groundwater samples were laboratory analyzed for VOCs, SVOCs, and RCRA metals using the applicable above-referenced methods.

6.3.1. VOCs Laboratory Results

The VOC dichlorodifluoromethane was identified in one groundwater sample collected form the Site at a concentration below its DTSC and USEPA tap water screening levels and CMCLs. Additional VOCs were not identified in the groundwater samples collected at the Site.

The Site is served by a municipal public water supply and there are no potable wells at the Site.

6.3.2. SVOCs Laboratory Results

The SVOC caprolactam was identified in two of the groundwater samples collected at the Site at a concentration below its DTSC and USEPA tap water screening levels and

CMCLs. Additional SVOCs were not identified in the groundwater samples collected at the Site.

6.3.3. Title 22 Metals

Arsenic, barium, chromium, lead, nickel, and mercury were detected in one or more groundwater samples above their respective DTSC tap water SL and CMCLs. Giles returned to the Site to resample the groundwater on February 23, 2022. The concentrations of arsenic, barium, chromium, lead, nickel, and mercury were below DTSC and USEPA tap water screening levels and CMCLs.

During the February 2022 resampling event, vanadium was identified in one groundwater sample from MW-3 at concentrations above its USEPA Tap Water SLs. There was no source of vanadium use at the Site identified in the September 2021 Phase I ESA. The detected vanadium was likely a result of suspended solids in the samples rather than dissolved metals. The Site is served by a municipal public water supply and there are no potable wells at the Site.

During the February 2022 resampling event, antimony was identified in two of the groundwater samples collected at the Site above its DTSC tap water SL and CMCLs. Giles noted that the original concentration of antimony during the Phase II activities in January 2022 was below detectable limits (BDL). Giles requested the two groundwater samples be reanalyzed. Reanalysis of groundwater samples did not identify antimony above detectable limits.

The Site is served by a municipal public water supply and there are no potable wells at the Site. The detected metals concentrations may have been a result of suspended solids in the samples.

6.4. Soil Gas Analytical Results

The soil gas analytical results are summarized and compared to calculated DTSC-SLs for ambient air at residential and commercial sites (DTSC, 2020) on Table 2. USEPA RSLs (USEPA, 2021) were used for comparison where DTSC-SLs were not available. Since the ambient air SLs represent indoor air concentrations and soil gas samples were collected, the ambient air SLs were divided by a DTSC-recommended attenuation factor of 0.03 (USEPA, 2015) to account for the attenuation of the compound as it travels through the subsurface and into a building. The screening levels generally are used to evaluate the need for further investigation or evaluation. The laboratory report and chain-of-custody documentation are provided in Appendix D.

VOCs were detected in the soil gas samples the Site. Benzene, bromodichloromethane, and chloroform were detected at concentrations above the calculated DTSC-SLs for residential land use, but below the DTSC-SLs for commercial land use. No other VOCs were detected above their calculated ambient air DTSC-SLs or USEPA RSLs for residential or commercial land uses.

7. CONCLUSIONS AND RECOMMENDATIONS

Giles completed a Phase II ESA to assess the presence of VOCs, SVOCs, and RCRA metals, including trivalent and hexavalent chromium in soil, and VOCs and methane in soil gas at the Site. Seven soil borings (MW-1 through MW-3, and VP-1 through VP-4) were sampled to assess subsurface soils and evaluate soil quality. Borings MW-1 through MW-3 were terminated at depths between 40 and 45 feet bgs. Borings VP-1 through VP-4 were advanced to a depth of 6 feet bgs, completed as temporary soil gas points, and sampled to evaluate soil gas quality.

Groundwater was encountered during drilling activities at the Site between 33 and 38 feet bgs.

Soil samples were described, field screened using a PID, and one sample from each boring was laboratory analyzed for VOCs, SVOCs, and RCRA metals including trivalent and hexavalent chromium. Soil gas samples were laboratory analyzed for VOCs and methane.

The following conclusions and recommendations are provided based upon findings of this Phase II ESA.

- The Site is currently developed with an asphalt parking lot. The ground surface at the Site is generally flat.
- Approximately three inches of surficial asphalt pavement over three inches of base course was encountered within each of the borings. The asphalt pavement was underlain by fine silty sands and sandy silts that extended to at least 45 feet bgs, the maximum depth explored. Groundwater was encountered during drilling activities at the Site at depths ranging from 33 feet bgs to 38 feet bgs.
- Low PID responses were measured in unsaturated soil samples from borings MW-1 through MW-3, and VP-1 through VP-4. No unusual soil staining or odors were observed in samples from any of the borings.
- Given the proposed use of the Site for a restaurant, the DTSC-SLs/USEPA RSLs for commercial land use are the appropriate screening levels for considering the potential that chemicals in the soil present a risk to workers or occupants.
- The VOCs 2-butanone and acetone were detected in one or more soil samples collected from the Site below their residential and commercial DTSC SLs and/or USEPA SSLs. Additional VOCs were not identified in soil samples collected from the Site. Therefore, no further environmental investigation with respect to VOCs in soil at the Site is warranted.
- SVOCs were not identified in soil samples collected form the Site. Therefore, no further environmental investigation with respect to VOCs in soil at the Site is warranted.
- Arsenic concentrations exceeded the DTSC-SLs for both residential and commercial land use and the USEPA SSL for groundwater protection in all soil samples collected at the Site. However, all arsenic concentrations were within the range of background concentrations for California (UC, 1996).

- Barium concentrations were below USEPA RSLs for residential and commercial land use in all soil samples collected from the Site, but the barium concentrations exceeded the USEPA SSL for groundwater protection. All barium concentrations were below the range of background concentrations for California (UC, 1996).
- One soil sample contained cadmium above the DTSC-SLs for both residential and commercial land use and the USEPA SSL for groundwater protection in all soil samples collected at the Site. However, the cadmium concentration was within the range of background concentrations for California (UC, 1996).
- One soil sample contained thallium above the DTSC-SLs for residential land use but below the DTSC-SLs for commercial land use and the USEPA SSL for groundwater protection. The thallium concentration was within the range of background concentrations for California (UC, 1996).
- There was no hexavalent chromium detected in any of the soil samples.
- Cobalt was detected in all soil samples collected from the Site at concentrations above the DTSC-SLs for residential land use and USEPA SSLs for groundwater protection, but below the DTSC-SLs for industrial land use. In addition, the cobalt concentrations were within the range of background concentrations for California (UC, 1996).
- Copper was detected in all soil samples collected from the Site at concentrations below the DTSC-SLs for residential and commercial land use, but above the USEPA SSLs for groundwater protection. However, the copper concentrations were within the range of background concentrations for California (UC, 1996).
- Mercury was detected in all soil samples collected from the Site at concentrations below the DTSC-SLs for residential and commercial land use, but above the USEPA SSLs for groundwater protection. However, the mercury concentrations were within the range of background concentrations for California (UC, 1996).
- The concentrations of all other detected Title 22 metals were below the applicable regulatory screening levels for residential land use, commercial land use, and groundwater protection.
- Therefore, no further environmental investigation with respect to Title 22 metals in soil at the Site is warranted
- A composite sample of the soil generated from the Site investigation was collected and analyzed for TPH, VOCs, SVOCs, and Title 22 Metals. The analytical results were consistent with the soil samples collected from the individual boring locations.
- An appropriate licensed disposal facility or other commercial/industrial property should be identified for the soil cuttings using the composite sample analytical results. The waste soil can be disposed of after written approval from the disposal site owner is obtained.
- The VOC dichlorodifluoromethane was identified in one groundwater sample collected form the Site at a concentration below its DTSC and USEPA tap water screening levels and CMCLs. Additional VOCs were not identified in the groundwater samples collected at the Site. Therefore, no further environmental investigation with respect to VOCs in groundwater at the Site is warranted.

- The SVOC caprolactam was identified in two of the groundwater samples collected at the Site at a concentration below its DTSC and USEPA tap water screening levels and CMCLs. Additional SVOCs were not identified in the groundwater samples collected at the Site. Therefore, no further environmental investigation with respect to SVOCs in groundwater at the Site is warranted.
- Arsenic, barium, chromium, lead, nickel, vanadium, and mercury (Title 22 metals) were detected in one or more groundwater samples above their respective DTSC tap water SL or CMCLs during the initial groundwater sampling on January 22, 2022. Giles returned to the Site to resample the groundwater on February 23, 2022. The concentrations of arsenic, barium, chromium, lead, nickel, and mercury were below DTSC and USEPA tap water screening levels and CMCLs.

  During the February 2022 resampling event, vanadium was identified in one groundwater sample from MW-3 at concentrations above its USEPA Tap Water SLs. There was no source of vanadium use at the Site identified in the September 2021 Phase I ESA. The detected vanadium was likely a result of suspended solids in the samples rather than dissolved metals. The Site is served by a municipal public water supply and there are no potable wells at the Site.

  During the February 2022 resampling event, antimony was identified in two of the groundwater samples collected at the Site above its DTSC tap water SL and CMCLs. Giles noted that the original concentration of antimony during the Phase II activities in January 2022 was below detectable limits (BDL). Giles requested the two groundwater samples be reanalyzed. Reanalysis of groundwater samples did not identify antimony above detectable limits.
- Concentrations of benzene, bromodichloromethane, and chloroform were detected in the soil gas above the calculated DTSC-SLs for residential land use, but below their calculated DTSC-SLs for commercial land use. No other VOCs were detected above their respective calculated DTSC ambient air SLs for residential or commercial land uses. The risk of vapor intrusion for the proposed CFA structure to be located on the Site is considered to be low. It is Giles opinion a vapor mitigation system is not necessary for the site CFA may wish to complete a business risk tolerance evaluation to further discuss and evaluate the need for vapor mitigation measures.
- The soil analytical data do not reveal chemical concentrations in the soil that are known to be hazardous to construction workers, restaurant employees, or patrons.
- If workers encounter evidence of impacted soil during excavation or construction, they should maintain a safe distance from the suspected impacted soil until the soil is evaluated by a qualified environmental professional and any hazardous conditions are mitigated.
- Three groundwater monitor wells remain at the Site. Giles recommends that groundwater monitor wells MW-1, MW-2, and MW-3 be properly abandoned after they are no longer needed.
- Giles recommends that CFA seek legal counsel regarding potential indemnification for financial liabilities associated with the impacted media identified on the Site.

8. REFERENCES

California Code of Regulations (CCR), Title 22, Division 4, Chapter 15, April 9, 2021.

California Environmental Protection Agency, Department of Toxic Substances Control (DTSC), "*Southern California Regional Background Arsenic Concentration in Soil,* March 2008.

California Environmental Protection Agency, Department of Toxic Substances Control (DTSC), *Human Health Risk Assessment Note 3, DTSC-modified Screening Levels,* June 2020.

Giles Engineering Associates, Inc., Draft *Phase I Environmental Site Assessment, Proposed Chick-fil-A Restaurant 04434, Silver Creek & Capital FSU, 3095 Silver Creek Road, San Jose, California,* Giles Project No*. 2E-2108003*, September 14, 2021a.

Giles Engineering Associates, Inc., *Proposed Limited Phase II Environmental Site Assessment, Proposed Chick-fil-A Restaurant 04434, Silver Creek & Capital FSU, 3095 Silver Creek Road, San Jose, California,* Giles Proposal No. 2EP-2109017, October 26, 2021b.

United States Environmental Protection Agency, groundwater protection soil screening levels obtained from: https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables, updated May 2021.

United States Environmental Protection Agency, *OSWER Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air*, June 2015.

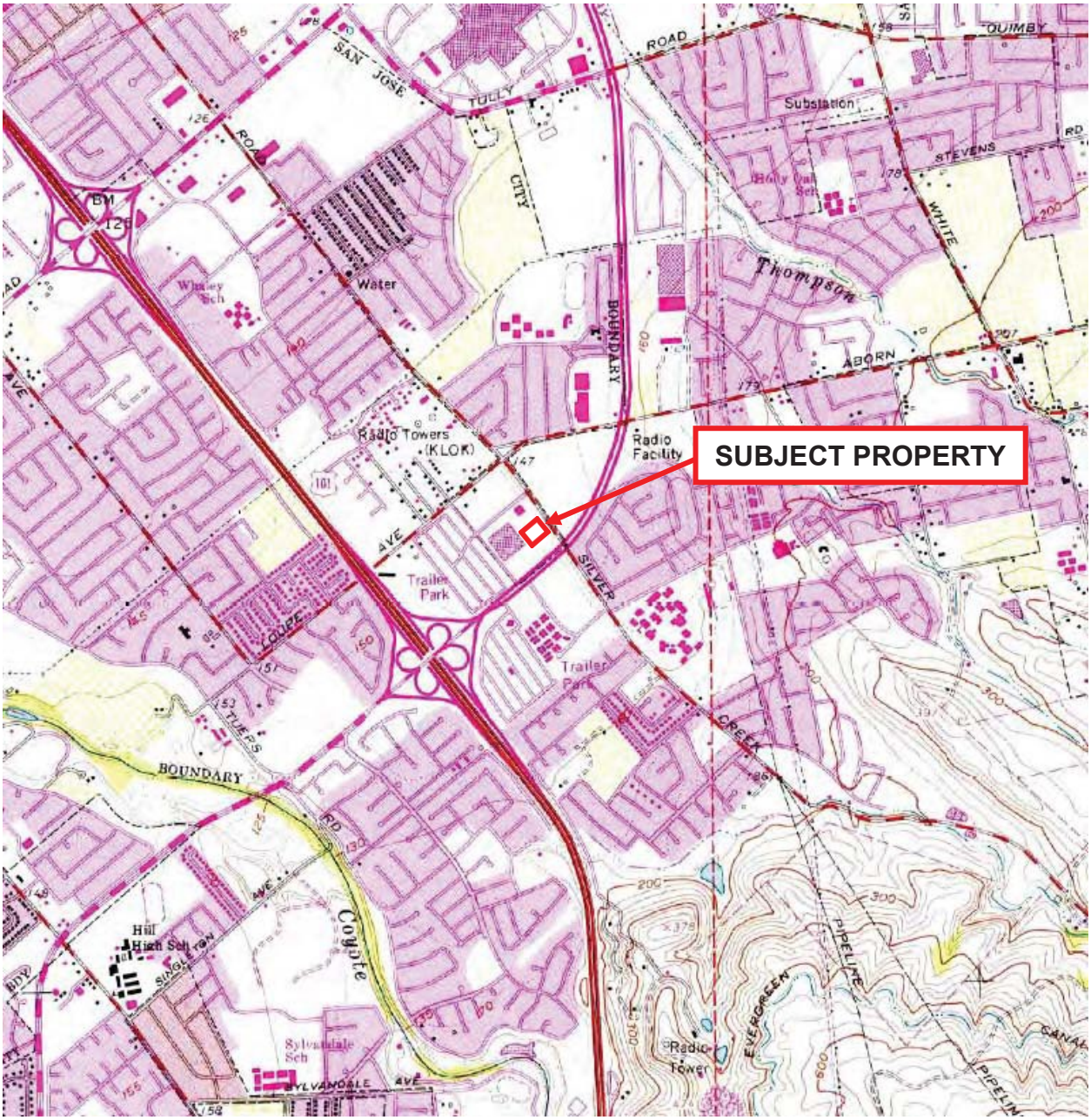
University of California (UC), Kerney Foundation Special Report, *Background Concentrations of Trace and Major Elements in California Soils*, March 1996.

9. GENERAL COMMENTS

This report is an instrument of service prepared for the exclusive use of CFA and may not be reproduced or distributed without written authorization from Giles and CFA. The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, expressed or implied, is made. These services were performed consistent with Giles' agreement with CFA. This report is solely for the use and information of CFA or as otherwise noted. Any unauthorized use of this report is strictly prohibited, and we assume no liability for any such use.

This report was prepared to aid in the evaluation of a site located at 5440 West Century Boulevard, Los Angeles, California regarding the potential for hazardous substance and/or petroleum hydrocarbon presence at the time of this study. The boring logs and related information provided in the appendix depict subsurface conditions only at specific locations drilled and at the particular times designated on the logs. Soil and groundwater conditions at other locations may differ from conditions occurring at these boring locations. In addition, the passage of time may result in a change of soil and groundwater conditions at the boring locations.

FIGURES



Source: USGS *San Jose East, California* 7.5-Minute Series (topographic) Quadrangle Map (1961; photorevised in 1980)

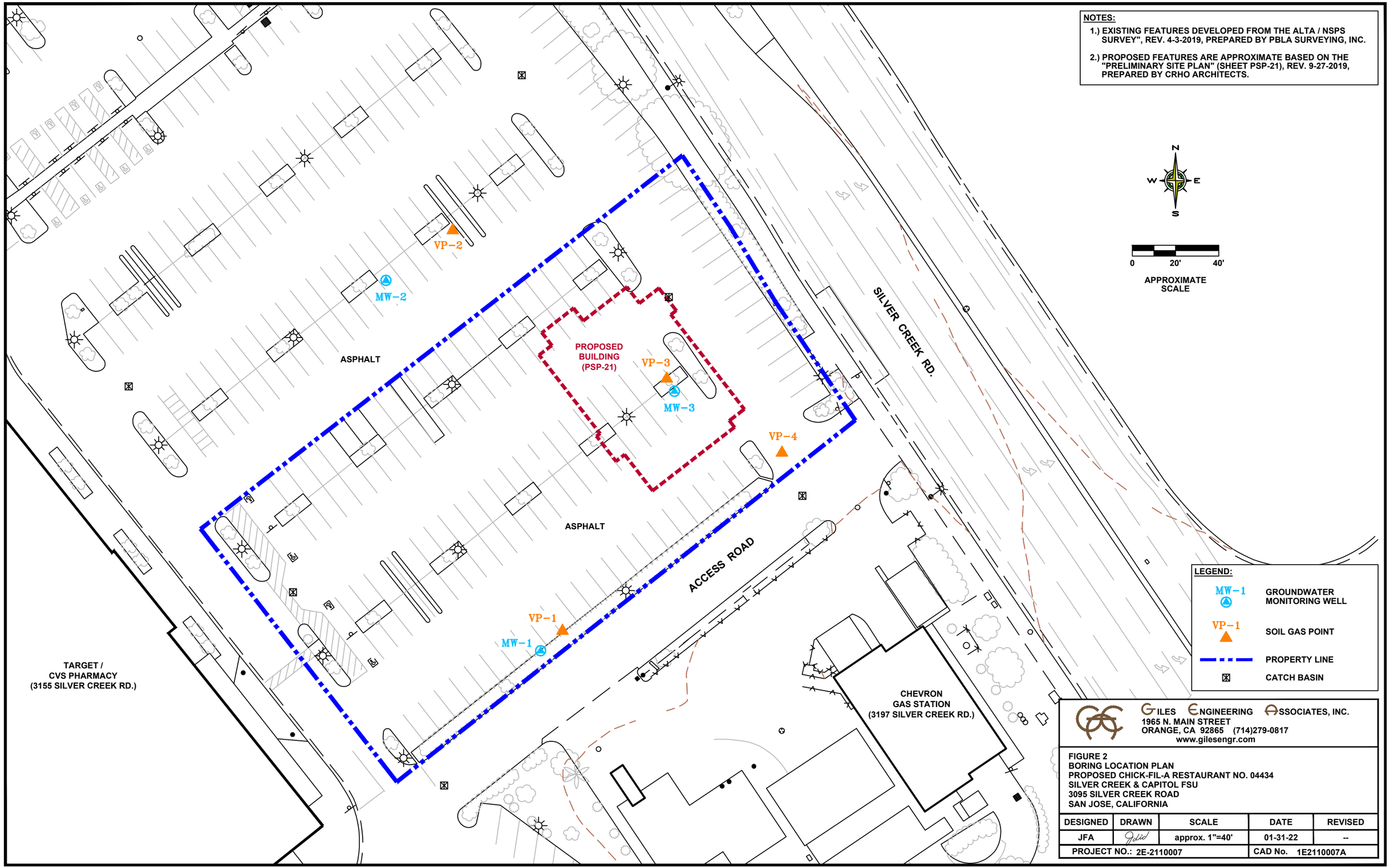
Scale: 1:24,000
Contour Interval: 10 Feet

N
W E
S

FIGURE 1
SUBJECT PROPERTY LOCATION

Proposed Chick-fil-A No. 04434
Silver Creek & Capital FSU
3095 Silver Creek Road
San Jose, California
Project No. 2E-2110007

GILES
ENGINEERING ASSOCIATES, INC.


NOTES:
1.) EXISTING FEATURES DEVELOPED FROM THE ALTA / NSPS SURVEY", REV. 4-3-2019, PREPARED BY PBLA SURVEYING, INC.
2.) PROPOSED FEATURES ARE APPROXIMATE BASED ON THE "PRELIMINARY SITE PLAN" (SHEET PSP-21), REV. 9-27-2019, PREPARED BY CRHO ARCHITECTS.
N
W
E
S
0
20'
40'
APPROXIMATE SCALE
SILVER CREEK RD.
ASPHALT
ASPHALT
PROPOSED BUILDING (PSP-21)
VP-1
VP-2
VP-3
VP-4
MW-1
MW-2
MW-3
ACCESS ROAD
TARGET / CVS PHARMACY (3155 SILVER CREEK RD.)
CHEVRON GAS STATION (3197 SILVER CREEK RD.)
LEGEND:
MW-1 GROUNDWATER MONITORING WELL
VP-1 SOIL GAS POINT
PROPERTY LINE
CATCH BASIN
GILES ENGINEERING ASSOCIATES, INC.
1965 N. MAIN STREET
ORANGE, CA 92865 (714)279-0817
www.gilesengr.com
FIGURE 2
BORING LOCATION PLAN
PROPOSED CHICK-FIL-A RESTAURANT NO. 04434
SILVER CREEK & CAPITOL FSU
3095 SILVER CREEK ROAD
SAN JOSE, CALIFORNIA
DESIGNED JFA
DRAWN
SCALE approx. 1"=40'
DATE 01-31-22
REVISED --
PROJECT NO.: 2E-2110007
CAD No. 1E2110007A

TABLES

TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
Proposed Chick-fil-A Restaurant 04434
Silver Creek & Capital FSU
3095 Silver Creek Road
San Jose, California
Giles Project No. 2E-2110007

Sample Location	VP-1	VP-2	VP-3	VP-4	MW-1	MW-2	MW-3	DTSC or USEPA Soil Screening Level		USEPA SSL for Groundwater Protection	Reported Background Concentration[g]
Sample Date	1/13/22	1/13/22	1/13/22	1/13/22	1/13/22	1/13/22	1/13/22				
Sample Depth (feet below ground surface)	4-6	0-2	4-6	4-6	2-4	8-10	4-6				
PID Response (instrument units)								Residential	Commercial		
VOCs by EPA Method 8260B											
2-Butanone (Methyl Ethyl Ketone)	<0.0035	**0.0070 J *+**	<0.0059	<0.0055	<0.0052	<0.0056	<0.0049	27,000[b]	190,000[b]	1.2	Not Applicable
Acetone	**0.011 J**	**0.052**	<0.012	<0.011	<0.010	<0.011	<0.0099	70,000[b]	1,100,000[b]	3.7	
No other VOCs were detected											
SVOCs by EPA Method 8270C											
No SVOCs were detected.											
Title 22 Metals and Hexavalent Chromium by EPA Method 6010B/7471A/7196											
Arsenic	**7.7**	**7.1**	**9.5**	**9.4**	**8.4**	**7.3**	**7.5**	0.11[a]	0.36[a]	0.0015	0.6-11.0
Barium	**230**	**230**	**210**	**230**	**240**	**210**	**310**	15,000[b]	220,000[b]	82	133-1,400
Cadmium	<0.094	<0.11	<0.10	<0.10	<0.11	**1.6**	**0.15 J**	71[a]	780[a]	0.14	0.05-1.70
Chromium, Total	**76**	**160**	**71**	**110**	**100**	**67**	**100**	NS	NS	180,000	23-1,579
Cobalt	**18**	**24**	**18**	**22**	**21**	**15**	**17**	23[b]	250[b]	14	2.7-46.9
Copper	**34**	**30**	**38**	**40**	**40**	**32**	**38**	3,100[b]	47,000[b]	28	9.1-96.4
Lead	**10**	**11**	**12**	**11**	**11**	**9.2**	**10**	80[a]	320[a]	14	12.4-97.1
Molybdenum	<0.31	**1.8**	<0.34	<0.33	<0.36	**0.34 J**	<0.37	390[b]	5,800[b]	2.0	0.1-9.6
Nickel	**130**	**300**	**120**	**200**	**180**	**100**	**170**	820[a]	11,000[a]	32	9-509
Thallium	<0.52	<0.61	<0.57	<0.56	<5.9	**1.5**	<0.63	0.71[b]	12[b]	0.014	5.3-36.2
Vanadium	**45**	**55**	**48**	**55**	**52**	**43**	**51**	390[b]	5,800[b]	86	39-288
Zinc	**73**	**54**	**77**	**77**	**80**	**72**	**75**	23,000[b]	350,000[b]	370	88-236
Mercury	**0.052**	**0.94**	**0.076**	**0.067**	**0.37**	**0.059 F1**	**0.066**	1[a]	4.4[a]	0.033	0.10-0.90
Chromium, Hexavalent	<2.9	<3.3	<3.2	<3.2	<3.2	<3.1	<3.3	0.3[a]	6.2[a]	0.00067	--
Chromium, Trivalent	**76**	**160**	**71**	**110**	**100**	**67**	**100**	120,000[b]	1,800,000[b]	40,000,000	--
No other Title 22 Metals were detected.											

NOTES:

Data are reported in milligrams per kilogram (mg/kg).
PID: photoionization detector
DTSC: California Department of Toxic Substances Control
USEPA (EPA): United States Environmental Protection Agency
USEPA SSL: United States Environmental Protection Agency groundwater protection soil screening level
VOCs: Volatile Organic Compounds
SVOCs: Semi-Volatile Organic Compounds
RCRA: Resource Conservation and Recovery Act

DTSC or USEPA soil screening levels obtained from *Human Health Risk Assessment (HHRA) Note 3, DTSC-modified Screening Levels (DTSC-SLs)* , DTSC Human and Ecological Risk Office (HERO), June 2020, if available (screening levels marked "a"). Where DTSC-SLs were not available, USEPA's *Regional Screening Levels (Regional Screening Level (RSL) Summary Table (TR = 1E-6, HQ=1)* , updated November 2021, were used (screening levels marked "b"). If screening levels for both carcinogenic and non-carcinogenic health effects were available, the lower of the two values was used.

USEPA SSL: USEPA soil screening level for groundwater protection (*Regional Screening Level (RSL) Summary Table (TR = 1E-6, HQ=1)* , updated November 2021)

NS: no established DTSC or USEPA screening level
<X.XX: Analyte not detected above its laboratory method detection limit of X.XX
X.XX: Analyte detected above its laboratory method detection limit
X.XX: Analyte detected above its DTSC screening level or USEPA RSL for residential land use.
X.XX: Analyte detected above the DTSC Screening Level or USEPA RSL for both residential and commercial land uses.

X.XX: Analyte detected above its USEPA SSL for groundwater protection but not health-based screening levels.

J: Estimated value. Analyte detected below the laboratory practical quantitation limit, but above the method detection limit.
E: Result exceeded calibration range.
^+ : Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
a: DTSC-modified Screening Level
b: USEPA RSL
f: USEPA RSL and USEPA SSL are the lower of the values for m-xylene and p-xylene
g: *Background Concentrations of Trace and Major Elements in California Soils* , Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California, March 1996.

TABLE 2
GROUNDWATER ANALYTICAL RESULTS SUMMARY
Proposed Chick-fil-A Restaurant 04434
Silver Creek & Capital FSU
3095 Silver Creek Road
San Jose, California
Giles Project No. 2E-2110007

Sample Location	MW-1		MW-2		MW-3		DTSC[a] or USEPA[b] Tap Water Screening Level[c]	Maximum Contaminant Level
Sample Date	1/21/2022[d]	2/23/2022[e]	1/21/2022[d]	2/23/2022[e]	1/21/2022[d]	2/23/2022[e]		
VOCs by EPA Method 8260B								
Dichlorodifluoromethane	<0.85	NA	**4.4**	NA	<0.85	NA	200	NS
No other VOCs were detected.								
SVOCs by EPA Method 8270C								
Caprolactam	<2.3	NA	**30**	NA	**420**	NA	9,300	NS
No other SVOCs were detected.								
Title 22 Metals by EPA Methods 6010B/7471A								
Antimony	<110	**33 J/** <0.022	<110	**43 J/** <0.022	<110	<22	7.8[b]	6
Arsenic	**250**	<3.0	**280**	**4.3 J**	**120**	<3.0	0.0052[b]	10
Barium	**5,000**	**160**	**4,900**	**190**	**2,600**	**290**	3,800[b]	2,000
Chromium, Total	**3,400**	<5.0	**1,900**	**7.6 J**	**1,100**	**5.5 J**	NS	100
Cobalt	**770**	<3.0	**340**	<3.0	**260**	<3.0	6.0[b]	NS
Copper	**710**	<17	**760**	**17 J**	**360**	<17	800[b]	1,300
Lead	**260**	<2.0	**260**	**3.5 J B**	**120**	<2.0	15[b]	15
Molybdenum	<20	**4.3 J B**	<20	<4.0	<20	**6.8 J B**	100[b]	NS
Nickel	**8,700**	**3.7 J**	**2,300**	**5.4 J**	**2,300**	**5.6 J**	220[a]	NS
Selenium	<40	<8.0	<40	**8.0 J**	<40	<8.0	100[b]	50
Vanadium	**1,600**	<7.0	**1,600**	**53**	**740**	**100**	86[b]	NS
Zinc	**2,100**	<8.0	**2,000**	<8.0	**910**	<8.0	6,000[b]	NS
Mercury	**2.1**	<0.15	**5.4**	<0.15	**0.84**	<0.15	0.063[a]	2.0
No other Title 22 Metals were detected.								

Notes:
Data and screening levels are reported in micrograms per liter (µg/L)
VOCs: Volatile Organic Compounds
SVOCs: Semi-Volatile Organic Compounds
DTSC: California Department of Toxic Substances Control
USEPA (EPA): United States Environmental Protection Agency
NA: Not Analyzed
NS: no DTSC- or USEPA-established screening level
J: Estimated value. Analyte detected between the laboratory method reporting and detection limits
B: Compound found in blank and sample.
a: DTSC-modified Screening Levels (DTSC-SLs) published in *Human Health Risk Assessment (HHRA) Note Number 3, DTSC-modified Screening Levels (DTSC-SLs)* published by DTSC's Human and Ecological Risk Office (HERO), June 2020
b: USEPA Regional Screening Levels (RSLs), November 2021
c: If available, DTSC-SLs are shown for comparison. Otherwise, USEPA RSLs are shown.
d: Unfiltered groundwater sample. Sediment in the sample may have skewed analytical data to higher concentrations.
xx / xx: Sample reanalyzed. Both results provided.
e: Field-filtered grounwater sample. Data represent dissolved phase concentrations.

TABLE 3
SOIL GAS ANALYTICAL RESULTS SUMMARY
Volatile Organic Compounds by EPA Method TO-15
Proposed Chick-fil-A Restaurant 04434
Silver Creek & Capital FSU
3095 Silver Creek Road
San Jose, California
Giles Project No. 2E-2110007

Sample Location	**VP-1**	**VP-2**	**VP-3**	**VP-4**	DTSC[a] or USEPA[b] Ambient Air Screening Level[c]		Calculated Soil Gas Screening Level[d]	
Sample Depth (feet bgs)	5	5	5	5				
Sample Date	1/18/22	1/18/22	1/18/22	1/18/22	Residential	Commercial	Residential	Commercial
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	**0.55 J**	**0.87 J**	**0.74 J**	**0.69 J**	5,200[b]	22,000[b]	170,000	730,000
1,2,4-Trimethylbenzene	**1.4**	**2.6**	**2.0**	**1.2**	63[b]	260[b]	2,100	8,700
1,3,5-Trimethylbenzene	**0.60 J**	**1.6**	**0.89 J**	**0.53 J**	63[b]	260[b]	2,100	8,700
1,4-Dichlorobenzene	**0.39 J**	<0.38	<0.38	<0.38	0.26[b]	1.1[b]	8.7	37
2-Butanone (Methyl Ethyl Ketone)	**2.6 J**	**5.4**	**5.1**	**3.9**	5,200[b]	22,000[b]	170,000	730,000
2-Hexanone (Methyl Butyl Ketone)	**0.32 J**	**0.31 J**	**0.26 J**	<0.24	31[b]	130[b]	1,000	4,300
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	**0.85 J**	**2.0 J**	**0.88 J**	**0.86 J**	3,100[b]	13,000[b]	100,000	430,000
Acetone	**25**	**13 J**	**32**	**28**	NS	NS	NS	NS
Benzene	**2.9**	**4.7**	**4.1**	**3.4**	0.097[a]	0.42[a]	3.2	14
Bromodichloromethane	**1.3**	**3.0**	**3.4**	**0.42 J**	0.076[a]	0.33[a]	2.5	11
Bromoform	**2.3**	**1.3 J**	**1.6 J**	<0.50	2.6[a]	11[a]	87	370
Butane	**31**	**72**	**46**	**30**	NS	NS	NS	NS
Carbon Disulfide	**8.2**	**69**	**6.8**	**3.6**	730[b]	3,100[b]	24,000	100,000
Carbon Tetrachloride	**0.55 J**	**0.26 J**	**0.40 J**	**0.66 J**	0.47[a]	2[a]	16	67
Chlorodifluoromethane	**0.71**	**1.3**	**0.70 J**	**1.2**	52,000[b]	220,000[b]	1,700,000	7,300,000
Chloroform	**2.7**	**4.5**	**5.6**	**1.0**	0.12[b]	0.53[b]	4.0	18
Chloromethane	**1.4 J**	**0.34 J**	**0.57 J**	**1.6 J**	94[b]	390[b]	3,100	13,000
Cyclohexane	**2.0**	**8.0**	**4.5**	**2.1**	6,300[b]	26,000[b]	210,000	870,000
Dibromochloromethane	**1.9**	**1.9**	**1.9**	<0.36	0.13[a]	0.58[a]	4.3	19
Dibromomethane (Methylene Dibromide)	<0.28	<0.28	**0.30 J**	<0.28	4.2[b]	18[b]	140	600
Dichlorodifluoromethane	**2.6**	**100**	**10**	**3.6**	100[b]	440[b]	3,300	15,000
Ethylbenzene	**1.8**	**1.8**	**1.5**	**2.1**	1.1[b]	4.9[b]	37	160
Heptane	**3.3**	**10**	**1.3 J**	**1.9**	420[b]	1,800[b]	14,000	60,000
Hexane	**3.5**	**13**	**2.1**	**3.5**	730[b]	3,100[b]	24,000	100,000
Isopropylbenzene (Cumene)	<0.29	**0.43 J**	**0.43 J**	<0.29	420[b]	1,800[b]	14,000	60,000
m&p-Xylenes	**6.0**	**6.0**	**5.5**	**7.3**	100[b]	440[b]	3,300	15,000
o-Xylene	**2.1**	**2.1**	**2.1**	**2.6**	100[b]	440[b]	3,300	15,000
Propylbenzene	**0.28 J**	**0.42 J**	**0.42 J**	**0.32 J**	1,000[b]	4,400[b]	33,000	150,000
Styrene	**0.29 J**	**0.25 J**	**0.30 J**	**0.33 J**	940[a]	3,900[a]	31,000	130,000
Tetrachloroethene (PCE)	<0.27	**0.77 J**	**0.58 J**	**0.28 J**	0.46[a]	2[a]	15	67
Toluene	**5.7**	**8.3**	**8.5**	**8.7**	310[a]	1300[a]	10,000	43,000
Trichloroethene (TCE)	<0.17	<0.17	**0.18 J**	<0.17	0.48[b]	3.0[b]	16	100
Trichlorofluoromethane	**1.3**	**0.77 J**	**1.4**	**1.3**	1,300[a]	5,300[a]	43,000	170,000
No other VOCs were detected.								

NOTES:
VOCs: Volatile Organic Compounds
VOC data and screening levels are reported in micrograms per cubic meter (µg/m^3).
DTSC: California Department of Toxic Substances Control
USEPA (EPA): United States Environmental Protection Agency
bgs: below ground surface
NS: no DTSC- or USEPA-established screening level
J: Estimated value. Analyte detected between the laboratory method reporting and detection limits
<X.XX: Analyte not detected above the laboratory method detection limit of X.XX.
X.XX: Analyte detected above its laboratory method detection limit
X.XX: Analyte detected above the lower of its carcinogenic or non-carcenogenic health effect calculated DTSC or EPA ambient air screening level for residential land use.
a: DTSC-modified Screening Levels (DTSC-SLs) published in *Human Health Risk Assessment (HHRA) Note Number 3, DTSC-modified Screening Levels (DTSC-SLs)* published by DTSC's Human and Ecological Risk Office (HERO), June 2020
b: USEPA Regional Screening Levels (RSLs), November 2021
c: If available, DTSC-SLs are shown for comparison. Otherwise, USEPA RSLs are shown.
d: Calculated soil gas screening levels were obtained by dividing the analyte's ambient air screening levels by an attenuation factor of 0.03, as described

APPENDIX A

Important Information About Your Geoenvironmental Report

Important Information about This

Geoenvironmental Report

Geoenvironmental studies are commissioned to gain information about environmental conditions on and beneath the surface of a site. The more comprehensive the study, the more reliable the assessment is likely to be. But remember: Any such assessment is to a greater or lesser extent based on professional opinions about conditions that cannot be seen or tested. Accordingly, no matter how many data are developed, risks created by unanticipated conditions will always remain. *Have realistic expectations.* Work with your geoenvironmental consultant to manage known and unknown risks. Part of that process should already have been accomplished, through the risk allocation provisions you and your geoenvironmental professional discussed and included in your contract's general terms and conditions. This document is intended to explain some of the concepts that may be included in your agreement, and to pass along information and suggestions to help you manage your risk.

Beware of Change; Keep Your Geoenvironmental Professional Advised

The design of a geoenvironmental study considers a variety of factors that are subject to change. Changes can undermine the applicability of a report's findings, conclusions, and recommendations. *Advise your geoenvironmental professional about any changes you become aware of.* Geoenvironmental professionals cannot accept responsibility or liability for problems that occur because a report fails to consider conditions that did not exist when the study was designed. Ask your geoenvironmental professional about the types of changes you should be particularly alert to. Some of the most common include:

- modification of the proposed development or ownership group,
- sale or other property transfer,
- replacement of or additions to the financing entity,
- amendment of existing regulations or introduction of new ones, or
- changes in the use or condition of adjacent property.

Should you become aware of any change, *do not rely on a geoenvironmental report.* Advise your geoenvironmental professional immediately; follow the professional's advice.

Recognize the Impact of Time

A geoenvironmental professional's findings, recommendations, and conclusions cannot remain valid indefinitely. The more time that passes, the more likely it is that important latent changes will occur. *Do not rely on a geoenvironmental report if too much time has elapsed since it was completed.* Ask your environmental professional to define "too much time." In the case of Phase I Environmental Site Assessments (ESAs), for example, more than 180 days after submission is generally considered "too much."

Prepare To Deal with Unanticipated Conditions

The findings, recommendations, and conclusions of a Phase I ESA report typically are based on a review of historical information, interviews, a site "walkover," and other forms of noninvasive research. When site subsurface conditions are not sampled in any way, the risk of unanticipated conditions is higher than it would otherwise be.

While borings, installation of monitoring wells, and similar invasive test methods can help reduce the risk of unanticipated conditions, *do not overvalue the effectiveness of testing.* Testing provides information about actual conditions only at the precise locations where samples are taken, and only when they are taken. Your geoenvironmental

professional has applied that specific information to develop a general opinion about environmental conditions. *Actual conditions in areas not sampled may differ (sometimes sharply) from those predicted in a report.* For example, a site may contain an unregistered underground storage tank that shows no surface trace of its existence. *Even conditions in areas that were tested can change*, sometimes suddenly, due to any number of events, not the least of which include occurrences at adjacent sites. Recognize, too, that *even some conditions in tested areas may go undiscovered,* because the tests or analytical methods used were designed to detect only those conditions assumed to exist.

Manage your risks by retaining your geoenvironmental professional to work with you as the project proceeds. Establish a contingency fund or other means to enable your geoenvironmental professional to respond rapidly, in order to limit the impact of unforeseen conditions. And to help prevent any misunderstanding, identify those empowered to authorize changes and the administrative procedures that should be followed.

Do Not Permit Any Other Party To Rely on the Report

Geoenvironmental professionals design their studies and prepare their reports to meet the specific needs of the clients who retain them, in light of the risk management methods that the client and geoenvironmental professional agree to, and the statutory, regulatory, or other requirements that apply. The study designed for a developer may differ sharply from one designed for a lender, insurer, public agency...or even another developer. *Unless the report specifically states otherwise, it was developed for you and only you.* Do not unilaterally permit any other party to rely on it. The report and the study underlying it may not be adequate for another party's needs, and you could be held liable for shortcomings your geoenvironmental professional was powerless to prevent or anticipate. Inform your geoenvironmental professional when you know or expect that someone else—a third-party—will want to use or rely on the report. *Do not permit third-party use or reliance until you first confer with the geoenvironmental professional who prepared the report.* Additional testing, analysis, or study may be required and, in any event, appropriate terms and conditions should be agreed to so both you and your geoenvironmental professional are protected from third-party risks. *Any party who relies on a geoenvironmental report without the express written permission of the professional who prepared it and the client for whom it was prepared may be solely liable for any problems that arise.*

Avoid Misinterpretation of the Report

Design professionals and other parties may want to rely on the report in developing plans and specifications. They need to be advised, in writing, that their needs may not have been considered when the study's scope was developed, and, even if their needs were considered, they might misinterpret geoenvironmental findings, conclusions, and recommendations. *Commission your geoenvironmental professional to explain pertinent elements of the report to others who are permitted to rely on it, and to review any plans, specifications or other instruments of professional service that incorporate any of the report's findings, conclusions, or recommendations.* Your geoenvironmental professional has the best understanding of the issues involved, including the fundamental assumptions that underpinned the study's scope.

Give Contractors Access to the Report

Reduce the risk of delays, claims, and disputes by giving contractors access to the full report, *providing that it is accompanied by a letter of transmittal that can protect you* by making it unquestionably clear that: 1) the study was not conducted and the report was not prepared for purposes of bid development, and 2) the findings, conclusions, and recommendations included in the report are based on a variety of opinions, inferences, and assumptions and are subject to interpretation. Use the letter to also advise contractors to consult with your geoenvironmental professional to obtain clarifications, interpretations, and guidance (a fee may be required for this service), and that—in any event—they should conduct additional studies to obtain the specific type and extent of information each prefers for preparing a bid or cost estimate. Providing access to the full report, with the appropriate caveats, helps prevent formation of adversarial attitudes and claims of concealed or differing conditions. If a contractor elects to ignore the warnings and advice in the letter of transmittal, it would do so at its own risk. Your geoenvironmental professional should be able to help you prepare an effective letter.

Do Not Separate Documentation from the Report

Geoenvironmental reports often include supplemental documentation, such as maps and copies of regulatory files, permits, registrations, citations, and correspondence with regulatory agencies. If subsurface explorations were performed, the report may contain final boring logs and copies of laboratory data. If remediation activities occurred on site, the report may include: copies of daily field reports; waste manifests; and information about the disturbance of subsurface materials, the type and thickness of any fill placed on site, and fill placement practices, among other types of documentation. *Do not separate supplemental documentation from the report. Do not, and do not permit any other party to redraw or modify any of the supplemental documentation for incorporation into other professionals' instruments of service.*

Understand the Role of Standards

Unless they are incorporated into statutes or regulations, standard practices and standard guides developed by the American Society for Testing and Materials (ASTM) and other recognized standards-developing organizations (SDOs) are little more than aspirational methods agreed to by a consensus of a committee. The committees that develop standards may not comprise those best-qualified to establish methods and, no matter what, no standard method can possibly consider the infinite client- and project-specific variables that fly in the face of the theoretical "standard conditions" to which standard practices and standard guides apply. In fact, these variables can be so pronounced that geoenvironmental professionals who comply with every directive of an ASTM or other standard procedure could run afoul of local custom and practice, thus violating the standard of care. Accordingly, when geoenvironmental professionals indicate in their reports that they have performed a service "in general compliance" with one standard or another, it means they have applied professional judgement in creating and implementing a scope of service designed for the specific client and project involved, and which follows some of the general precepts laid out in the referenced standard. To the extent that a report indicates "general compliance" with a standard, you may wish to speak with your geoenvironmental professional to learn more about what was and was not done. *Do not assume a given standard was followed to the letter.* Research indicates that that seldom is the case.

Realize That Recommendations May Not Be Final

The technical recommendations included in a geoenvironmental report are based on assumptions about actual conditions, and so are preliminary or tentative. Final recommendations can be prepared only by observing actual conditions as they are exposed. For that reason, you should retain the geoenvironmental professional of record to observe construction and/or remediation activities on site, to permit rapid response to unanticipated conditions. *The geoenvironmental professional who prepared the report cannot assume responsibility or liability for the report's recommendations if that professional is not retained to observe relevant site operations.*

Understand That Geotechnical Issues Have Not Been Addressed

Unless geotechnical engineering was specifically included in the scope of professional service, a report is not likely to relate any findings, conclusions, or recommendations about the suitability of subsurface materials for construction purposes, especially when site remediation has been accomplished through the removal, replacement, encapsulation, or chemical treatment of on-site soils. The equipment, techniques, and testing used by geotechnical engineers differ markedly from those used by geoenvironmental professionals; their education, training, and experience are also significantly different. If you plan to build on the subject site, but have not yet had a geotechnical engineering study conducted, your geoenvironmental professional should be able to provide guidance about the next steps you should take. The same firm may provide the services you need.

Read Responsibility Provisions Closely

Geoenvironmental studies cannot be exact; they are based on professional judgement and opinion. Nonetheless, some clients, contractors, and others assume geoenvironmental reports are or certainly should be unerringly precise. Such assumptions have created unrealistic expectations that have led to wholly unwarranted claims and disputes. To help prevent such problems, geoenvironmental professionals have developed a number of report provisions and contract terms that explain who is responsible for what, and how risks are to be allocated. Some people mistake these for "exculpatory clauses," that is, provisions whose purpose is to transfer one party's rightful responsibilities and liabilities to someone else. Read the responsibility provisions included in a report and in the contract you and your geoenvironmental professional agreed to. *Responsibility provisions are not "boilerplate."* They are important.

Rely on Your Geoenvironmental Professional for Additional Assistance

Membership in the Geoprofessional Business Association exposes geoenvironmental professionals to a wide array of risk management techniques that can be of genuine benefit for everyone involved with a geoenvironmental project. Confer with your GBA-member geoenvironmental professional for more information.

GEOPROFESSIONAL BUSINESS ASSOCIATION

8811 Colesville Road/Suite G106, Silver Spring, MD 20910
Telephone: 301/565-2733 Facsimile: 301/589-2017
e-mail: info@geoprofessional.org www.geoprofessional.org

APPENDIX B

Soil Boring Logs and Boring Permit

BORING NO. & LOCATION: MW-1	TEST BORING LOG	GILES ENGINEERING ASSOCIATES, INC.
SURFACE ELEVATION:	PROPOSED CHICK-FIL-A RESTAURANT #4434 SILVER CREEK & CAPITAL FSU	
COMPLETION DATE: 01/13/22	3095 SILVER CREEK ROAD SAN JOSE, CALIFORNIA	
FIELD REP: D. MOSCOVIC	PROJECT NO: 2E-2110007	

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q_u (tsf)	Q_p (tsf)	Q_s (tsf)	W (%)	PID	NOTES
Asphalt with Gravel Base										
Dark Gray Clay, Stiff (Fill)			1-SS	21					1.4	
Brown Sandy Silty Clay, Stiff	5		2-SS	16					2.5	(a)
									1.5	
			3-SS	16					1.9	
	10		4-SS	16						
			5-SS	14						
	15		6-SS	15						
	20									
			7-SS	13						
	25									
	30									
Sand, Gravel	35									
	40									

Water Observation Data	Remarks:
Water Encountered During Drilling: 33 ft.	(a) Soil sample collected from this interval for laboratory analyses.
Water Level At End of Drilling:	PID: Photoionization detector. PID used was equipped with 10.6 ev lamp and calibrated to isobutylene. Results expressed in instrument units.
Cave Depth At End of Drilling:	
Water Level After Drilling:	Drilling Contractor: Blaine Tech Services, Inc.
Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

BORING NO. & LOCATION: MW-1	TEST BORING LOG	GILES ENGINEERING ASSOCIATES, INC.
SURFACE ELEVATION:	PROPOSED CHICK-FIL-A RESTAURANT #4434 SILVER CREEK & CAPITAL FSU	
COMPLETION DATE: 01/13/22	3095 SILVER CREEK ROAD SAN JOSE, CALIFORNIA	
FIELD REP: D. MOSCOVIC	PROJECT NO: 2E-2110007	

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q_u (tsf)	Q_p (tsf)	Q_s (tsf)	W (%)	PID	NOTES
Sand, Gravel *(continued)*										
	45									

Boring Terminated at about 45 feet

A 2-inch PVC well casing was placed in the open borehole to facilitate groundwater sampling. 25 feet of 0.010-inch slotted well screen and 20 feet of blank riser casing was used to extend the well to the ground surface. Filter sansd was used to fill the annulus to 2 feet above the slotted well screen, followed by hydrated bentonite chips to 2 feet bgs. A steel manway was concreted in place at the ground surface.

Water Observation Data	Remarks:
Water Encountered During Drilling: 33 ft.	(a) Soil sample collected from this interval for laboratory analyses.
Water Level At End of Drilling:	PID: Photoionization detector. PID used was equipped with 10.6 ev lamp and calibrated to isobutylene. Results expressed in instrument units.
Cave Depth At End of Drilling:	
Water Level After Drilling:	Drilling Contractor: Blaine Tech Services, Inc.
Cave Depth After Drilling:	

BORING NO. & LOCATION: MW-2	TEST BORING LOG	GILES ENGINEERING ASSOCIATES, INC.
SURFACE ELEVATION:	PROPOSED CHICK-FIL-A RESTAURANT #4434 SILVER CREEK & CAPITAL FSU	
COMPLETION DATE: 01/13/22	3095 SILVER CREEK ROAD SAN JOSE, CALIFORNIA	
FIELD REP: D. MOSCOVIC	PROJECT NO: 2E-2110007	

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q_u (tsf)	Q_p (tsf)	Q_s (tsf)	W (%)	PID	NOTES
Asphalt with Gravel Base										
Brown Sandy Silty Clay, Stiff-Moist			1-SS	15					1.5	
	5								3.5	
			2-SS	17					3.0	
			3-SS	18					3.9	(a)
	10		4-SS	21						
			5-SS	11						
	15		6-SS	16						
	20									
			7-SS	9						
	25									
			8-SS	26						
	30									
Sand, Gravel	35									
	40									

Water Observation Data	Remarks:
Water Encountered During Drilling: 33 ft.	(a) Soil sample collected from this interval for laboratory analyses.
Water Level At End of Drilling:	PID: Photoionization detector. PID used was equipped with 10.6 ev lamp and calibrated to isobutylene. Results expressed in instrument units.
Cave Depth At End of Drilling:	
Water Level After Drilling:	Drilling Contractor: Blaine Tech Services, Inc.
Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

BORING NO. & LOCATION: MW-2	TEST BORING LOG	GILES ENGINEERING ASSOCIATES, INC.
SURFACE ELEVATION:	PROPOSED CHICK-FIL-A RESTAURANT #4434 SILVER CREEK & CAPITAL FSU	
COMPLETION DATE: 01/13/22	3095 SILVER CREEK ROAD SAN JOSE, CALIFORNIA	
FIELD REP: D. MOSCOVIC	PROJECT NO: 2E-2110007	

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q_u (tsf)	Q_p (tsf)	Q_s (tsf)	W (%)	PID	NOTES
Boring Terminated at about 40 feet										
A 2-inch PVC well casing was placed in the open borehole to facilitate groundwater sampling. 25 feet of 0.010-inch slotted well screen and 15 feet of blank riser casing was used to extend the well to the ground surface. Filter sansd was used to fill the annulus to 2 feet above the slotted well screen, followed by hydrated bentonite chips to 2 feet bgs. A steel manway was concreted in place at the ground surface.										

Water Observation Data	Remarks:
Water Encountered During Drilling: 33 ft.	(a) Soil sample collected from this interval for laboratory analyses.
Water Level At End of Drilling:	PID: Photoionization detector. PID used was equipped with 10.6 ev lamp and calibrated to isobutylene. Results expressed in instrument units.
Cave Depth At End of Drilling:	
Water Level After Drilling:	Drilling Contractor: Blaine Tech Services, Inc.
Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

BORING NO. & LOCATION: MW-3	TEST BORING LOG	GILES ENGINEERING ASSOCIATES, INC.
SURFACE ELEVATION:	PROPOSED CHICK-FIL-A RESTAURANT #4434 SILVER CREEK & CAPITAL FSU	
COMPLETION DATE: 01/13/22	3095 SILVER CREEK ROAD SAN JOSE, CALIFORNIA	
FIELD REP: D. MOSCOVIC	PROJECT NO: 2E-2110007	

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q_u (tsf)	Q_p (tsf)	Q_s (tsf)	W (%)	PID	NOTES
Asphalt with Gravel Base										
Dark Brown Sandy Silty Clay, Stiff-Moist			1-SS	16					0.8	(a)
	5								0.9	
			2-SS	17					1.7	
			3-SS	15					0.9	
	10		4-SS	11						
			5-SS	17						
	15		6-SS	16						
	20									
			7-SS	13						
	25									
	30									
	35									
	40									
Sand, Gravel										

Water Observation Data	Remarks:
Water Encountered During Drilling: 38 ft.	(a) Soil sample collected from this interval for laboratory analyses.
Water Level At End of Drilling:	PID: Photoionization detector. PID used was equipped with 10.6 ev lamp and calibrated to isobutylene. Results expressed in instrument units.
Cave Depth At End of Drilling:	
Water Level After Drilling:	Drilling Contractor: Blaine Tech Services, Inc.
Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

BORING NO. & LOCATION: MW-3	TEST BORING LOG	GILES ENGINEERING ASSOCIATES, INC.
SURFACE ELEVATION:	PROPOSED CHICK-FIL-A RESTAURANT #4434 SILVER CREEK & CAPITAL FSU	
COMPLETION DATE: 01/13/22	3095 SILVER CREEK ROAD SAN JOSE, CALIFORNIA	
FIELD REP: D. MOSCOVIC	PROJECT NO: 2E-2110007	

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q_u (tsf)	Q_p (tsf)	Q_s (tsf)	W (%)	PID	NOTES
Sand, Gravel *(continued)*										
	45									

Boring Terminated at about 45 feet

A 2-inch PVC well casing was placed in the open borehole to facilitate groundwater sampling. 25 feet of 0.010-inch slotted well screen and 20 feet of blank riser casing was used to extend the well to the ground surface. Filter sansd was used to fill the annulus to 2 feet above the slotted well screen, followed by hydrated bentonite chips to 2 feet bgs. A steel manway was concreted in place at the ground surface.

Water Observation Data	Remarks:
Water Encountered During Drilling: 38 ft.	(a) Soil sample collected from this interval for laboratory analyses.
Water Level At End of Drilling:	PID: Photoionization detector. PID used was equipped with 10.6 ev lamp and calibrated to isobutylene. Results expressed in instrument units.
Cave Depth At End of Drilling:	
Water Level After Drilling:	Drilling Contractor: Blaine Tech Services, Inc.
Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

BORING NO. & LOCATION: VP-1	TEST BORING LOG	GILES ENGINEERING ASSOCIATES, INC.
SURFACE ELEVATION:	PROPOSED CHICK-FIL-A RESTAURANT #4434 SILVER CREEK & CAPITAL FSU	
COMPLETION DATE: 01/13/22	3095 SILVER CREEK ROAD SAN JOSE, CALIFORNIA	
FIELD REP: D. MOSCOVIC	PROJECT NO: 2E-2110007	

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q_u (tsf)	Q_p (tsf)	Q_s (tsf)	W (%)	PID	NOTES
Asphalt with Gravel Base			1-SS						1.0	
Brown Sandy Silty Clay, Stiff			2-SS						0.7	
	5		3-SS						1.4	(a)

Boring Terminated at about 6 feet

A temporary soil gas monitoring point was installed in the boring. The soil gas point was constructed using a 1-inch long filter joined to the down-hole end of an 8-foot length of 1/4-inch diameter Teflon tubing positioned between 5 and 6 feet. Filter sand was used to fill the boring to 5 feet bgs and hydrated granular bentonite was used to fill the remainder of the boring to form the vapor point seal.

Water Observation Data	Remarks:
Water Encountered During Drilling:	(a) Soil sample collected from this interval for laboratory analyses.
Water Level At End of Drilling:	PID: Photoionization detector. PID used was equipped with 10.6 ev lamp and calibrated to isobutylene. Results expressed in instrument units.
Cave Depth At End of Drilling:	
Water Level After Drilling:	Drilling Contractor: Blaine Tech Services, Inc.
Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

BORING NO. & LOCATION: VP-2	TEST BORING LOG	GILES ENGINEERING ASSOCIATES, INC.
SURFACE ELEVATION:	PROPOSED CHICK-FIL-A RESTAURANT #4434 SILVER CREEK & CAPITAL FSU	
COMPLETION DATE: 01/13/22	3095 SILVER CREEK ROAD SAN JOSE, CALIFORNIA	
FIELD REP: D. MOSCOVIC	PROJECT NO: 2E-2110007	

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q_u (tsf)	Q_p (tsf)	Q_s (tsf)	W (%)	PID	NOTES
Asphalt with Gravel Base			1-SS						1.4	(a)
Dark Brown Sandy Silty Clay, Stiff (Fill)										
Brown Sandy Silty Clay, Stiff			2-SS						1.3	
	5		3-SS						1.0	

Boring Terminated at about 6 feet

A temporary soil gas monitoring point was installed in the boring. The soil gas point was constructed using a 1-inch long filter joined to the down-hole end of an 8-foot length of 1/4-inch diameter Teflon tubing positioned between 5 and 6 feet. Filter sand was used to fill the boring to 5 feet bgs and hydrated granular bentonite was used to fill the remainder of the boring to form the vapor point seal.

Water Observation Data	Remarks:
Water Encountered During Drilling:	(a) Soil sample collected from this interval for laboratory analyses.
Water Level At End of Drilling:	PID: Photoionization detector. PID used was equipped with 10.6 ev lamp and calibrated to isobutylene. Results expressed in instrument units.
Cave Depth At End of Drilling:	
Water Level After Drilling:	Drilling Contractor: Blaine Tech Services, Inc.
Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

BORING NO. & LOCATION: VP-3	TEST BORING LOG	GILES ENGINEERING ASSOCIATES, INC.
SURFACE ELEVATION:	PROPOSED CHICK-FIL-A RESTAURANT #4434 SILVER CREEK & CAPITAL FSU	
COMPLETION DATE: 01/13/22	3095 SILVER CREEK ROAD SAN JOSE, CALIFORNIA	
FIELD REP: D. MOSCOVIC	PROJECT NO: 2E-2110007	

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q_u (tsf)	Q_p (tsf)	Q_s (tsf)	W (%)	PID	NOTES
Asphalt with Gravel Base			1-SS						0.7	
Brown Sandy Clay, Stiff (Fill)										
Brown Sandy Silty Clay, Stiff			2-SS						2.4	
	5		3-SS						2.9	(a)

Boring Terminated at about 6 feet

A temporary soil gas monitoring point was installed in the boring. The soil gas point was constructed using a 1-inch long filter joined to the down-hole end of an 8-foot length of 1/4-inch diameter Teflon tubing positioned between 5 and 6 feet. Filter sand was used to fill the boring to 5 feet bgs and hydrated granular bentonite was used to fill the remainder of the boring to form the vapor point seal.

Water Observation Data	Remarks:
Water Encountered During Drilling:	(a) Soil sample collected from this interval for laboratory analyses.
Water Level At End of Drilling:	PID: Photoionization detector. PID used was equipped with 10.6 ev lamp and calibrated to isobutylene. Results expressed in instrument units.
Cave Depth At End of Drilling:	
Water Level After Drilling:	Drilling Contractor: Blaine Tech Services, Inc.
Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

BORING NO. & LOCATION: VP-4	TEST BORING LOG	GILES ENGINEERING ASSOCIATES, INC.
SURFACE ELEVATION:	PROPOSED CHICK-FIL-A RESTAURANT #4434 SILVER CREEK & CAPITAL FSU	
COMPLETION DATE: 01/13/22	3095 SILVER CREEK ROAD SAN JOSE, CALIFORNIA	
FIELD REP: D. MOSCOVIC	PROJECT NO: 2E-2110007	

MATERIAL DESCRIPTION	Depth (ft)	Elevation	Sample No. & Type	N	Q_u (tsf)	Q_p (tsf)	Q_s (tsf)	W (%)	PID	NOTES
Asphalt with Gravel Base			1-SS						1.5	
Brown Sandy Silty Clay, Stiff (Fill)										
Brown Sandy Silty Clay, Stiff			2-SS						2.4	(a)
	5		3-SS						0.9	

Boring Terminated at about 6 feet

A temporary soil gas monitoring point was installed in the boring. The soil gas point was constructed using a 1-inch long filter joined to the down-hole end of an 8-foot length of 1/4-inch diameter Teflon tubing positioned between 5 and 6 feet. Filter sand was used to fill the boring to 5 feet bgs and hydrated granular bentonite was used to fill the remainder of the boring to form the vapor point seal.

Water Observation Data	Remarks:
Water Encountered During Drilling:	(a) Soil sample collected from this interval for laboratory analyses.
Water Level At End of Drilling:	PID: Photoionization detector. PID used was equipped with 10.6 ev lamp and calibrated to isobutylene. Results expressed in instrument units.
Cave Depth At End of Drilling:	
Water Level After Drilling:	Drilling Contractor: Blaine Tech Services, Inc.
Cave Depth After Drilling:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

APPENDIX C

Soil Analytical Laboratory Report and Chain-of-Custody

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-214145-1
Client Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-2110007

For:
Giles Engineering Associates
2626 Lombardy Lane
Suite 105
Dallas, Texas 75220

Attn: Mr. Mike Pisarik

Authorized for release by:
2/3/2022 11:53:14 AM

Jamie McKinney, Senior Project Manager
(865)291-3000
Jamie.McKinney@Eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 400-214145-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-214145-1

Comments
No additional comments.

Receipt
The samples were received on 1/14/2022 10:22 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.2º C.

GC/MS VOA
Method 8260B: The laboratory control sample (LCS) for preparation batch 400-564079 and analytical batch 400-564059 recovered outside control limits for the following analytes: 2-Butanone, 2-Methyl-2-propanol, 4-Methyl-2-pentanone and Isobutyl alcohol. These analytes were biased high in the LCS and were below the reporting limit in the associated samples; therefore, the data have been reported.

Method 8260B: The voa vials received for low level analysis for VP-1 4'-6' (400-214145-4) did not contain any preservative upon receipt. A revised tare weight was obtained (original tare weight - the weight of 5 mls of water). The bottle was then weighed to obtain the secondary bottle weight and the sample weight. 5 mls of water were then added to the sample.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C: The continuing calibration verification (CCV) associated with batch 400-563936 recovered above the upper control limit for Indeno[1,2,3-cd]pyrene, Benzo[g,h,i]perylene, Hexachlorobutadiene and Dibenz(a,h)anthracene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270C: The following analyte(s) recovered outside control limits for the LCS associated with preparation batch 400-563906 and analytical batch 400-563936: Dibenz(a,h)anthracene and Bis(2-chloroethoxy)methane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8270C: The continuing calibration verification (CCV) associated with batch 400-563976 recovered above the upper control limit for Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270C: Physical properties (viscosity, color, odor) of the following sample(s) extract preclude concentrated analysis which would jeopardize instrumentation. Minimal dilution with elevated RLs is reported. VP-2 0'-2' (400-214145-5) and VP-3 4'-6' (400-214145-6)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Methods 7471A, 7471B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-564408 and analytical batch 400-564729 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The following sample was diluted because the initial analysis produced a significant negative result - the absolute value exceeded the reporting limit (RL): MW-1 2'-4' (400-214145-1). Reporting limits (RLs) are elevated as a result.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method 7196A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-564037 and analytical batch 400-564052 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 400-214145-1 (Continued)

Laboratory: Eurofins Pensacola (Continued)

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital
FSU/2E-2110007

Job ID: 400-214145-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-214145-1	MW-1 2'-4'	Solid	01/13/22 12:12	01/14/22 10:22
400-214145-2	MW-2 8'-10'	Solid	01/13/22 09:40	01/14/22 10:22
400-214145-3	MW-3 4'-6'	Solid	01/13/22 10:29	01/14/22 10:22
400-214145-4	VP-1 4'-6'	Solid	01/13/22 11:15	01/14/22 10:22
400-214145-5	VP-2 0'-2'	Solid	01/13/22 12:20	01/14/22 10:22
400-214145-6	VP-3 4'-6'	Solid	01/13/22 11:37	01/14/22 10:22
400-214145-7	VP-4 2'-4'	Solid	01/13/22 12:00	01/14/22 10:22

Detection Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: MW-1 2'-4' — Lab Sample ID: 400-214145-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.4		1.2	0.71	mg/Kg	1	☼	6010B	Total/NA
Barium	240		1.2	0.21	mg/Kg	1	☼	6010B	Total/NA
Chromium	100		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Cobalt	21		1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Copper	40		2.5	0.93	mg/Kg	1	☼	6010B	Total/NA
Lead	11		1.2	0.27	mg/Kg	1	☼	6010B	Total/NA
Nickel	180		0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Vanadium	52		2.5	1.0	mg/Kg	1	☼	6010B	Total/NA
Zinc	80		2.5	0.90	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.37		0.019	0.011	mg/Kg	1	☼	7471B	Total/NA
Chromium, trivalent	100		6.2	0.46	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: MW-2 8'-10' — Lab Sample ID: 400-214145-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.3		1.1	0.62	mg/Kg	1	☼	6010B	Total/NA
Barium	210		1.1	0.19	mg/Kg	1	☼	6010B	Total/NA
Cadmium	1.6		0.55	0.096	mg/Kg	1	☼	6010B	Total/NA
Chromium	67		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Copper	32		2.2	0.82	mg/Kg	1	☼	6010B	Total/NA
Lead	9.2		1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Molybdenum	0.34	J	1.1	0.32	mg/Kg	1	☼	6010B	Total/NA
Nickel	100		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.5		1.1	0.54	mg/Kg	1	☼	6010B	Total/NA
Vanadium	43		2.2	0.92	mg/Kg	1	☼	6010B	Total/NA
Zinc	72		2.2	0.79	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.059	F1	0.018	0.011	mg/Kg	1	☼	7471B	Total/NA
Chromium, trivalent	67		5.6	0.41	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: MW-3 4'-6' — Lab Sample ID: 400-214145-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.5		1.3	0.74	mg/Kg	1	☼	6010B	Total/NA
Barium	310		1.3	0.22	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.39		0.39	0.090	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.15	J	0.65	0.11	mg/Kg	1	☼	6010B	Total/NA
Chromium	100		1.3	0.40	mg/Kg	1	☼	6010B	Total/NA
Cobalt	17		1.3	0.25	mg/Kg	1	☼	6010B	Total/NA
Copper	38		2.6	0.97	mg/Kg	1	☼	6010B	Total/NA
Lead	10		1.3	0.28	mg/Kg	1	☼	6010B	Total/NA
Nickel	170		0.65	0.18	mg/Kg	1	☼	6010B	Total/NA
Vanadium	51		2.6	1.1	mg/Kg	1	☼	6010B	Total/NA
Zinc	75		2.6	0.93	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.066		0.018	0.011	mg/Kg	1	☼	7471B	Total/NA
Chromium, trivalent	100		6.0	0.44	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: VP-1 4'-6' — Lab Sample ID: 400-214145-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.011	J	0.015	0.0070	mg/Kg	1	☼	8260B	Total/NA
Arsenic	7.7		1.1	0.61	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: VP-1 4'-6' (Continued) — Lab Sample ID: 400-214145-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	230		1.1	0.18	mg/Kg	1	☼	6010B	Total/NA
Chromium	76		1.1	0.33	mg/Kg	1	☼	6010B	Total/NA
Cobalt	18		1.1	0.20	mg/Kg	1	☼	6010B	Total/NA
Copper	34		2.1	0.80	mg/Kg	1	☼	6010B	Total/NA
Lead	10		1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Nickel	130		0.53	0.15	mg/Kg	1	☼	6010B	Total/NA
Vanadium	45		2.1	0.89	mg/Kg	1	☼	6010B	Total/NA
Zinc	73		2.1	0.77	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.052		0.017	0.010	mg/Kg	1	☼	7471B	Total/NA
Chromium, trivalent	76		5.8	0.43	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: VP-2 0'-2' — Lab Sample ID: 400-214145-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone	0.0070	J *+	0.019	0.0046	mg/Kg	1	☼	8260B	Total/NA
Acetone	0.052		0.019	0.0092	mg/Kg	1	☼	8260B	Total/NA
Arsenic	7.1		1.3	0.71	mg/Kg	1	☼	6010B	Total/NA
Barium	230		1.3	0.21	mg/Kg	1	☼	6010B	Total/NA
Chromium	160		1.3	0.39	mg/Kg	1	☼	6010B	Total/NA
Cobalt	24		1.3	0.24	mg/Kg	1	☼	6010B	Total/NA
Copper	30		2.5	0.94	mg/Kg	1	☼	6010B	Total/NA
Lead	11		1.3	0.28	mg/Kg	1	☼	6010B	Total/NA
Molybdenum	1.8		1.3	0.36	mg/Kg	1	☼	6010B	Total/NA
Nickel	300		0.63	0.18	mg/Kg	1	☼	6010B	Total/NA
Vanadium	55		2.5	1.1	mg/Kg	1	☼	6010B	Total/NA
Zinc	54		2.5	0.90	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.94		0.019	0.011	mg/Kg	1	☼	7471B	Total/NA
Chromium, trivalent	160		6.1	0.45	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: VP-3 4'-6' — Lab Sample ID: 400-214145-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.5		1.2	0.67	mg/Kg	1	☼	6010B	Total/NA
Barium	210		1.2	0.20	mg/Kg	1	☼	6010B	Total/NA
Chromium	71		1.2	0.36	mg/Kg	1	☼	6010B	Total/NA
Cobalt	18		1.2	0.22	mg/Kg	1	☼	6010B	Total/NA
Copper	38		2.3	0.88	mg/Kg	1	☼	6010B	Total/NA
Lead	12		1.2	0.26	mg/Kg	1	☼	6010B	Total/NA
Nickel	120		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	48		2.3	0.98	mg/Kg	1	☼	6010B	Total/NA
Zinc	77		2.3	0.84	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.076		0.019	0.011	mg/Kg	1	☼	7471B	Total/NA
Chromium, trivalent	71		6.1	0.45	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: VP-4 2'-4' — Lab Sample ID: 400-214145-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.4		1.2	0.66	mg/Kg	1	☼	6010B	Total/NA
Barium	230		1.2	0.20	mg/Kg	1	☼	6010B	Total/NA
Chromium	110		1.2	0.36	mg/Kg	1	☼	6010B	Total/NA
Cobalt	22		1.2	0.22	mg/Kg	1	☼	6010B	Total/NA
Copper	40		2.3	0.86	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: VP-4 2'-4' (Continued)

Lab Sample ID: 400-214145-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	11		1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Nickel	200		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Vanadium	55		2.3	0.97	mg/Kg	1	☼	6010B	Total/NA
Zinc	77		2.3	0.83	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.067		0.018	0.011	mg/Kg	1	☼	7471B	Total/NA
Chromium, trivalent	110		6.0	0.44	mg/Kg	1	☼	7196A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: MW-1 2'-4'

Date Collected: 01/13/22 12:12
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-1

Matrix: Solid
Percent Solids: 80.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0043	0.00095	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
1,1,1-Trichloroethane	ND		0.0043	0.00095	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
1,1,2,2-Tetrachloroethane	ND		0.0043	0.00071	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
1,1,2-Trichloroethane	ND		0.0043	0.00067	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
1,1-Dichloroethane	ND		0.0043	0.00072	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
1,1-Dichloroethene	ND		0.0043	0.00073	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
1,1-Dichloropropene	ND		0.0043	0.00072	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
1,2,3-Trichlorobenzene	ND		0.0043	0.00095	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
1,2,3-Trichloropropane	ND		0.0043	0.00069	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
1,2,4-Trichlorobenzene	ND		0.0043	0.00079	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
1,2,4-Trimethylbenzene	ND		0.0043	0.00086	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
1,2-Dibromo-3-Chloropropane	ND		0.0043	0.0029	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
1,2-Dibromoethane	ND		0.0043	0.00086	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
1,2-Dichlorobenzene	ND		0.0043	0.00061	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
1,2-Dichloroethane	ND		0.0043	0.00071	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
1,2-Dichloroethene, Total	ND		0.0043	0.00083	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
1,2-Dichloropropane	ND		0.0043	0.00066	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
1,3,5-Trimethylbenzene	ND		0.0043	0.00072	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
1,3-Dichlorobenzene	ND		0.0043	0.00082	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
1,3-Dichloropropane	ND		0.0043	0.00086	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
1,4-Dichlorobenzene	ND		0.0043	0.00074	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
1,4-Dioxane	ND		0.43	0.043	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
2,2-Dichloropropane	ND		0.0043	0.00095	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
2-Butanone	ND	*+	0.022	0.0052	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
2-Chlorotoluene	ND		0.0043	0.00070	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
2-Hexanone	ND		0.022	0.0043	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
4-Chlorotoluene	ND		0.0043	0.00085	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
4-Isopropyltoluene	ND		0.0043	0.00086	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
4-Methyl-2-pentanone	ND	*+	0.022	0.0043	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Acetone	ND		0.022	0.010	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Benzene	ND		0.0043	0.00058	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Bromobenzene	ND		0.0043	0.0011	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Bromochloromethane	ND		0.0043	0.00070	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Bromodichloromethane	ND		0.0043	0.00079	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Bromoform	ND		0.0043	0.0011	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Bromomethane	ND		0.0043	0.0022	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Carbon disulfide	ND		0.0043	0.00057	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Carbon tetrachloride	ND		0.0043	0.0015	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Chlorobenzene	ND		0.0043	0.00045	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Chloroethane	ND		0.0043	0.0010	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Chloroform	ND		0.0043	0.00074	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Chloromethane	ND		0.0043	0.00086	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
cis-1,2-Dichloroethene	ND		0.0043	0.00066	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
cis-1,3-Dichloropropene	ND		0.0043	0.0010	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Cyclohexane	ND		0.0043	0.00081	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Dibromochloromethane	ND		0.0043	0.0010	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Dibromomethane	ND		0.0043	0.00072	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Dichlorodifluoromethane	ND		0.0043	0.0011	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Diisopropyl ether	ND		0.0043	0.00048	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: MW-1 2'-4'

Date Collected: 01/13/22 12:12
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-1

Matrix: Solid
Percent Solids: 80.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	ND		0.0043	0.00060	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Ethylbenzene	ND		0.0043	0.00053	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Freon TF	ND		0.0043	0.00073	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Hexachlorobutadiene	ND		0.0043	0.0022	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Isobutyl alcohol	ND	*+	0.022	0.020	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Isopropylbenzene	ND		0.0043	0.00059	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
m&p-Xylene	ND		0.0043	0.0011	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Methyl acetate	ND		0.0043	0.0040	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Methyl iodide	ND		0.0043	0.0029	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Methyl t-butyl ether	ND		0.0043	0.00086	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Methylcyclohexane	ND		0.0043	0.00051	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Methylene Chloride	ND		0.013	0.0086	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Naphthalene	ND		0.0043	0.0017	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
n-Butylbenzene	ND		0.0043	0.00083	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
n-Propylbenzene	ND		0.0043	0.00078	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
o-Xylene	ND		0.0043	0.00086	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
sec-Butylbenzene	ND		0.0043	0.00082	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Styrene	ND		0.0043	0.00086	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Tert-amyl methyl ether	ND		0.0043	0.00086	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
tert-Butyl alcohol (TBA)	ND	*+	0.0086	0.0069	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
tert-Butylbenzene	ND		0.0043	0.00095	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Tetrachloroethene	ND		0.0043	0.00048	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Tetrahydrofuran	ND		0.0086	0.0043	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Toluene	ND		0.0043	0.00086	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
trans-1,2-Dichloroethene	ND		0.0043	0.00083	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
trans-1,3-Dichloropropene	ND		0.0043	0.00095	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Trichloroethene	ND		0.0043	0.00086	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Trichlorofluoromethane	ND		0.0043	0.00074	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Vinyl acetate	ND		0.022	0.0016	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Vinyl chloride	ND		0.0043	0.00069	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1
Xylenes, Total	ND		0.0086	0.0016	mg/Kg	☼	01/24/22 07:22	01/24/22 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*67 - 130*	*01/24/22 07:22*	*01/24/22 16:28*	*1*
Toluene-d8	*95*		*76 - 127*	*01/24/22 07:22*	*01/24/22 16:28*	*1*
Dibromofluoromethane	*106*		*77 - 127*	*01/24/22 07:22*	*01/24/22 16:28*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
1,2,4,5-Tetrachlorobenzene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
1,2,4-Trichlorobenzene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
1,2-Dichlorobenzene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
1,3-Dichlorobenzene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
1,4-Dichlorobenzene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
1-Methylnaphthalene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
2,2'-oxybis[1-chloropropane]	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
2,3,4,6-Tetrachlorophenol	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
2,4,5-Trichlorophenol	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
2,4,6-Trichlorophenol	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1

Client Sample ID: MW-1 2'-4'

Date Collected: 01/13/22 12:12
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-1

Matrix: Solid
Percent Solids: 80.5

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
2,4-Dimethylphenol	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
2,4-Dinitrophenol	ND		1.2	0.36	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
2,4-Dinitrotoluene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
2,6-Dinitrotoluene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
2-Chloronaphthalene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
2-Chlorophenol	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
2-Methylnaphthalene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
2-Methylphenol	ND		0.41	0.098	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
2-Nitroaniline	ND		0.41	0.086	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
2-Nitrophenol	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
3 & 4 Methylphenol	ND		0.81	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
3,3'-Dichlorobenzidine	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
3-Nitroaniline	ND		0.41	0.096	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
4,6-Dinitro-2-methylphenol	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
4-Bromophenyl phenyl ether	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
4-Chloro-3-methylphenol	ND		0.41	0.10	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
4-Chloroaniline	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
4-Chlorophenyl phenyl ether	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
4-Nitroaniline	ND		0.41	0.14	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
4-Nitrophenol	ND		0.41	0.14	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Acenaphthene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Acenaphthylene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Acetophenone	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Aniline	ND		0.41	0.053	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Anthracene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Atrazine	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Azobenzene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Benzaldehyde	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Benzo[a]anthracene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Benzo[a]pyrene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Benzo[b]fluoranthene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Benzo[g,h,i]perylene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Benzo[k]fluoranthene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Benzoic acid	ND		1.2	0.43	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Benzyl alcohol	ND		0.41	0.14	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Bis(2-chloroethoxy)methane	ND	*-	0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Bis(2-chloroethyl)ether	ND		0.41	0.11	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Bis(2-ethylhexyl) phthalate	ND		0.41	0.10	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Butyl benzyl phthalate	ND		0.41	0.087	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Caprolactam	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Carbazole	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Chrysene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Dibenz(a,h)anthracene	ND	*+	0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Dibenzofuran	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Diethyl phthalate	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Dimethyl phthalate	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Di-n-butyl phthalate	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Di-n-octyl phthalate	ND		0.41	0.15	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: MW-1 2'-4'

Date Collected: 01/13/22 12:12
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-1

Matrix: Solid
Percent Solids: 80.5

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Fluorene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Hexachlorobenzene	ND		0.41	0.12	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Hexachlorobutadiene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Hexachlorocyclopentadiene	ND		0.41	0.081	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Hexachloroethane	ND		0.41	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Indeno[1,2,3-cd]pyrene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Isophorone	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Naphthalene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Nitrobenzene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
N-Nitrosodimethylamine	ND		0.41	0.081	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
N-Nitrosodi-n-propylamine	ND		0.41	0.047	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
N-Nitrosodiphenylamine	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Pentachlorophenol	ND		0.81	0.081	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Phenanthrene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Phenol	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Pyrene	ND		0.41	0.041	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1
Pyridine	ND		0.41	0.18	mg/Kg	☼	01/21/22 09:06	01/21/22 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*10 - 150*	*01/21/22 09:06*	*01/21/22 22:10*	*1*
2-Fluorophenol (Surr)	*57*		*25 - 128*	*01/21/22 09:06*	*01/21/22 22:10*	*1*
Nitrobenzene-d5 (Surr)	*58*		*15 - 136*	*01/21/22 09:06*	*01/21/22 22:10*	*1*
Phenol-d5 (Surr)	*59*		*29 - 130*	*01/21/22 09:06*	*01/21/22 22:10*	*1*
Terphenyl-d14 (Surr)	*86*		*24 - 146*	*01/21/22 09:06*	*01/21/22 22:10*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		6.2	1.1	mg/Kg	☼	01/20/22 16:25	01/21/22 19:37	1
Arsenic	**8.4**		1.2	0.71	mg/Kg	☼	01/20/22 16:25	01/21/22 19:37	1
Barium	**240**		1.2	0.21	mg/Kg	☼	01/20/22 16:25	01/21/22 19:37	1
Beryllium	ND		0.37	0.087	mg/Kg	☼	01/20/22 16:25	01/25/22 14:08	1
Cadmium	ND		0.62	0.11	mg/Kg	☼	01/20/22 16:25	01/25/22 14:08	1
Chromium	**100**		1.2	0.39	mg/Kg	☼	01/20/22 16:25	01/21/22 19:37	1
Cobalt	**21**		1.2	0.24	mg/Kg	☼	01/20/22 16:25	01/21/22 19:37	1
Copper	**40**		2.5	0.93	mg/Kg	☼	01/20/22 16:25	01/21/22 19:37	1
Lead	**11**		1.2	0.27	mg/Kg	☼	01/20/22 16:25	01/21/22 19:37	1
Molybdenum	ND		1.2	0.36	mg/Kg	☼	01/20/22 16:25	01/21/22 19:37	1
Nickel	**180**		0.62	0.17	mg/Kg	☼	01/20/22 16:25	01/21/22 19:37	1
Selenium	ND		2.5	1.1	mg/Kg	☼	01/20/22 16:25	01/24/22 21:06	1
Silver	ND		0.62	0.41	mg/Kg	☼	01/20/22 16:25	01/21/22 19:37	1
Thallium	ND		12	5.9	mg/Kg	☼	01/30/22 14:30	01/31/22 15:49	10
Vanadium	**52**		2.5	1.0	mg/Kg	☼	01/20/22 16:25	01/21/22 19:37	1
Zinc	**80**		2.5	0.90	mg/Kg	☼	01/20/22 16:25	01/21/22 19:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.37**		0.019	0.011	mg/Kg	☼	01/26/22 13:49	01/27/22 16:21	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: MW-1 2'-4'

Date Collected: 01/13/22 12:12
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-1

Matrix: Solid
Percent Solids: 80.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND	F1	5.8	3.2	mg/Kg	☼	01/23/22 04:00	01/23/22 23:10	1
Chromium, trivalent	**100**		6.2	0.46	mg/Kg	☼		01/23/22 03:12	1
Percent Solids	**80.5**		0.01	0.01	%			01/21/22 09:10	1
Percent Moisture	**19.5**		0.01	0.01	%			01/21/22 09:10	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: MW-2 8'-10'

Date Collected: 01/13/22 09:40
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-2

Matrix: Solid
Percent Solids: 89.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0047	0.0010	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
1,1,1-Trichloroethane	ND		0.0047	0.0010	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
1,1,2,2-Tetrachloroethane	ND		0.0047	0.00077	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
1,1,2-Trichloroethane	ND		0.0047	0.00073	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
1,1-Dichloroethane	ND		0.0047	0.00078	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
1,1-Dichloroethene	ND		0.0047	0.00079	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
1,1-Dichloropropene	ND		0.0047	0.00078	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
1,2,3-Trichlorobenzene	ND		0.0047	0.0010	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
1,2,3-Trichloropropane	ND		0.0047	0.00075	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
1,2,4-Trichlorobenzene	ND		0.0047	0.00086	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
1,2,4-Trimethylbenzene	ND		0.0047	0.00093	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
1,2-Dibromo-3-Chloropropane	ND		0.0047	0.0031	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
1,2-Dibromoethane	ND		0.0047	0.00093	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
1,2-Dichlorobenzene	ND		0.0047	0.00066	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
1,2-Dichloroethane	ND		0.0047	0.00077	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
1,2-Dichloroethene, Total	ND		0.0047	0.00090	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
1,2-Dichloropropane	ND		0.0047	0.00071	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
1,3,5-Trimethylbenzene	ND		0.0047	0.00078	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
1,3-Dichlorobenzene	ND		0.0047	0.00089	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
1,3-Dichloropropane	ND		0.0047	0.00093	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
1,4-Dichlorobenzene	ND		0.0047	0.00080	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
1,4-Dioxane	ND		0.47	0.047	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
2,2-Dichloropropane	ND		0.0047	0.0010	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
2-Butanone	ND	*+	0.023	0.0056	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
2-Chlorotoluene	ND		0.0047	0.00076	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
2-Hexanone	ND		0.023	0.0047	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
4-Chlorotoluene	ND		0.0047	0.00092	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
4-Isopropyltoluene	ND		0.0047	0.00093	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
4-Methyl-2-pentanone	ND	*+	0.023	0.0047	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Acetone	ND		0.023	0.011	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Benzene	ND		0.0047	0.00063	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Bromobenzene	ND		0.0047	0.0012	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Bromochloromethane	ND		0.0047	0.00076	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Bromodichloromethane	ND		0.0047	0.00086	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Bromoform	ND		0.0047	0.0012	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Bromomethane	ND		0.0047	0.0023	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Carbon disulfide	ND		0.0047	0.00062	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Carbon tetrachloride	ND		0.0047	0.0016	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Chlorobenzene	ND		0.0047	0.00049	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Chloroethane	ND		0.0047	0.0011	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Chloroform	ND		0.0047	0.00080	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Chloromethane	ND		0.0047	0.00093	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
cis-1,2-Dichloroethene	ND		0.0047	0.00071	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
cis-1,3-Dichloropropene	ND		0.0047	0.0011	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Cyclohexane	ND		0.0047	0.00088	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Dibromochloromethane	ND		0.0047	0.0011	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Dibromomethane	ND		0.0047	0.00078	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Dichlorodifluoromethane	ND		0.0047	0.0012	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Diisopropyl ether	ND		0.0047	0.00051	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1

Client Sample ID: MW-2 8'-10'

Date Collected: 01/13/22 09:40
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-2

Matrix: Solid
Percent Solids: 89.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	ND		0.0047	0.00065	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Ethylbenzene	ND		0.0047	0.00057	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Freon TF	ND		0.0047	0.00079	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Hexachlorobutadiene	ND		0.0047	0.0023	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Isobutyl alcohol	ND	*+	0.023	0.021	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Isopropylbenzene	ND		0.0047	0.00064	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
m&p-Xylene	ND		0.0047	0.0012	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Methyl acetate	ND		0.0047	0.0043	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Methyl iodide	ND		0.0047	0.0032	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Methyl t-butyl ether	ND		0.0047	0.00093	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Methylcyclohexane	ND		0.0047	0.00055	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Methylene Chloride	ND		0.014	0.0093	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Naphthalene	ND		0.0047	0.0019	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
n-Butylbenzene	ND		0.0047	0.00090	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
n-Propylbenzene	ND		0.0047	0.00084	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
o-Xylene	ND		0.0047	0.00093	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
sec-Butylbenzene	ND		0.0047	0.00089	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Styrene	ND		0.0047	0.00093	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Tert-amyl methyl ether	ND		0.0047	0.00093	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
tert-Butyl alcohol (TBA)	ND	*+	0.0093	0.0075	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
tert-Butylbenzene	ND		0.0047	0.0010	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Tetrachloroethene	ND		0.0047	0.00052	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Tetrahydrofuran	ND		0.0093	0.0047	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Toluene	ND		0.0047	0.00093	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
trans-1,2-Dichloroethene	ND		0.0047	0.00090	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
trans-1,3-Dichloropropene	ND		0.0047	0.0010	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Trichloroethene	ND		0.0047	0.00093	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Trichlorofluoromethane	ND		0.0047	0.00080	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Vinyl acetate	ND		0.023	0.0018	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Vinyl chloride	ND		0.0047	0.00075	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1
Xylenes, Total	ND		0.0093	0.0018	mg/Kg	☼	01/24/22 07:22	01/24/22 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*67 - 130*	*01/24/22 07:22*	*01/24/22 16:54*	*1*
Toluene-d8	*96*		*76 - 127*	*01/24/22 07:22*	*01/24/22 16:54*	*1*
Dibromofluoromethane	*106*		*77 - 127*	*01/24/22 07:22*	*01/24/22 16:54*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
1,2,4,5-Tetrachlorobenzene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
1,2,4-Trichlorobenzene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
1,2-Dichlorobenzene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
1,3-Dichlorobenzene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
1,4-Dichlorobenzene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
1-Methylnaphthalene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
2,2'-oxybis[1-chloropropane]	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
2,3,4,6-Tetrachlorophenol	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
2,4,5-Trichlorophenol	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
2,4,6-Trichlorophenol	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1

Client Sample ID: MW-2 8'-10'

Date Collected: 01/13/22 09:40
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-2

Matrix: Solid
Percent Solids: 89.6

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
2,4-Dimethylphenol	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
2,4-Dinitrophenol	ND		1.1	0.32	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
2,4-Dinitrotoluene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
2,6-Dinitrotoluene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
2-Chloronaphthalene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
2-Chlorophenol	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
2-Methylnaphthalene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
2-Methylphenol	ND		0.37	0.089	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
2-Nitroaniline	ND		0.37	0.078	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
2-Nitrophenol	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
3 & 4 Methylphenol	ND		0.73	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
3,3'-Dichlorobenzidine	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
3-Nitroaniline	ND		0.37	0.087	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
4,6-Dinitro-2-methylphenol	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
4-Bromophenyl phenyl ether	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
4-Chloro-3-methylphenol	ND		0.37	0.090	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
4-Chloroaniline	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
4-Chlorophenyl phenyl ether	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
4-Nitroaniline	ND		0.37	0.13	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
4-Nitrophenol	ND		0.37	0.12	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Acenaphthene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Acenaphthylene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Acetophenone	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Aniline	ND		0.37	0.048	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Anthracene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Atrazine	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Azobenzene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Benzaldehyde	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Benzo[a]anthracene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Benzo[a]pyrene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Benzo[b]fluoranthene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Benzo[g,h,i]perylene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Benzo[k]fluoranthene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Benzoic acid	ND		1.1	0.39	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Benzyl alcohol	ND		0.37	0.12	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Bis(2-chloroethoxy)methane	ND	*-	0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Bis(2-chloroethyl)ether	ND		0.37	0.10	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Bis(2-ethylhexyl) phthalate	ND		0.37	0.090	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Butyl benzyl phthalate	ND		0.37	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Caprolactam	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Carbazole	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Chrysene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Dibenz(a,h)anthracene	ND	*+	0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Dibenzofuran	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Diethyl phthalate	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Dimethyl phthalate	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Di-n-butyl phthalate	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Di-n-octyl phthalate	ND		0.37	0.13	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: MW-2 8'-10'

Date Collected: 01/13/22 09:40
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-2

Matrix: Solid
Percent Solids: 89.6

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Fluorene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Hexachlorobenzene	ND		0.37	0.11	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Hexachlorobutadiene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Hexachlorocyclopentadiene	ND		0.37	0.073	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Hexachloroethane	ND		0.37	0.034	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Indeno[1,2,3-cd]pyrene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Isophorone	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Naphthalene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Nitrobenzene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
N-Nitrosodimethylamine	ND		0.37	0.073	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
N-Nitrosodi-n-propylamine	ND		0.37	0.042	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
N-Nitrosodiphenylamine	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Pentachlorophenol	ND		0.73	0.073	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Phenanthrene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Phenol	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Pyrene	ND		0.37	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1
Pyridine	ND		0.37	0.17	mg/Kg	☼	01/21/22 09:06	01/21/22 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*67*		*10 - 150*	*01/21/22 09:06*	*01/21/22 22:30*	*1*
2-Fluorophenol (Surr)	*62*		*25 - 128*	*01/21/22 09:06*	*01/21/22 22:30*	*1*
Nitrobenzene-d5 (Surr)	*61*		*15 - 136*	*01/21/22 09:06*	*01/21/22 22:30*	*1*
Phenol-d5 (Surr)	*63*		*29 - 130*	*01/21/22 09:06*	*01/21/22 22:30*	*1*
Terphenyl-d14 (Surr)	*93*		*24 - 146*	*01/21/22 09:06*	*01/21/22 22:30*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.5	0.96	mg/Kg	☼	01/20/22 16:25	01/21/22 19:42	1
Arsenic	**7.3**		1.1	0.62	mg/Kg	☼	01/20/22 16:25	01/21/22 19:42	1
Barium	**210**		1.1	0.19	mg/Kg	☼	01/20/22 16:25	01/21/22 19:42	1
Beryllium	ND		0.33	0.077	mg/Kg	☼	01/20/22 16:25	01/24/22 21:11	1
Cadmium	**1.6**		0.55	0.096	mg/Kg	☼	01/20/22 16:25	01/25/22 14:13	1
Chromium	**67**		1.1	0.34	mg/Kg	☼	01/20/22 16:25	01/21/22 19:42	1
Cobalt	**15**		1.1	0.21	mg/Kg	☼	01/20/22 16:25	01/21/22 19:42	1
Copper	**32**		2.2	0.82	mg/Kg	☼	01/20/22 16:25	01/21/22 19:42	1
Lead	**9.2**		1.1	0.24	mg/Kg	☼	01/20/22 16:25	01/21/22 19:42	1
Molybdenum	**0.34**	**J**	1.1	0.32	mg/Kg	☼	01/20/22 16:25	01/21/22 19:42	1
Nickel	**100**		0.55	0.15	mg/Kg	☼	01/20/22 16:25	01/21/22 19:42	1
Selenium	ND		2.2	0.95	mg/Kg	☼	01/20/22 16:25	01/24/22 21:11	1
Silver	ND		0.55	0.36	mg/Kg	☼	01/20/22 16:25	01/21/22 19:42	1
Thallium	**1.5**		1.1	0.54	mg/Kg	☼	01/20/22 16:25	01/25/22 14:13	1
Vanadium	**43**		2.2	0.92	mg/Kg	☼	01/20/22 16:25	01/21/22 19:42	1
Zinc	**72**		2.2	0.79	mg/Kg	☼	01/20/22 16:25	01/21/22 19:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.059**	**F1**	0.018	0.011	mg/Kg	☼	01/26/22 13:49	01/27/22 16:23	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: MW-2 8'-10'

Date Collected: 01/13/22 09:40
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-2

Matrix: Solid
Percent Solids: 89.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND		5.5	3.1	mg/Kg	☼	01/23/22 04:00	01/23/22 23:06	1
Chromium, trivalent	**67**		5.6	0.41	mg/Kg	☼		01/23/22 03:12	1
Percent Solids	**89.6**		0.01	0.01	%			01/24/22 09:21	1
Percent Moisture	**10.4**		0.01	0.01	%			01/24/22 09:21	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: MW-3 4'-6'

Date Collected: 01/13/22 10:29
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-3

Matrix: Solid
Percent Solids: 83.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0041	0.00091	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
1,1,1-Trichloroethane	ND		0.0041	0.00091	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
1,1,2,2-Tetrachloroethane	ND		0.0041	0.00068	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
1,1,2-Trichloroethane	ND		0.0041	0.00064	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
1,1-Dichloroethane	ND		0.0041	0.00068	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
1,1-Dichloroethene	ND		0.0041	0.00070	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
1,1-Dichloropropene	ND		0.0041	0.00068	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
1,2,3-Trichlorobenzene	ND		0.0041	0.00091	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
1,2,3-Trichloropropane	ND		0.0041	0.00066	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
1,2,4-Trichlorobenzene	ND		0.0041	0.00076	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
1,2,4-Trimethylbenzene	ND		0.0041	0.00082	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
1,2-Dibromo-3-Chloropropane	ND		0.0041	0.0027	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
1,2-Dibromoethane	ND		0.0041	0.00082	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
1,2-Dichlorobenzene	ND		0.0041	0.00059	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
1,2-Dichloroethane	ND		0.0041	0.00068	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
1,2-Dichloroethene, Total	ND		0.0041	0.00079	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
1,2-Dichloropropane	ND		0.0041	0.00063	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
1,3,5-Trimethylbenzene	ND		0.0041	0.00068	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
1,3-Dichlorobenzene	ND		0.0041	0.00078	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
1,3-Dichloropropane	ND		0.0041	0.00082	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
1,4-Dichlorobenzene	ND		0.0041	0.00071	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
1,4-Dioxane	ND		0.41	0.041	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
2,2-Dichloropropane	ND		0.0041	0.00091	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
2-Butanone	ND	*+	0.021	0.0049	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
2-Chlorotoluene	ND		0.0041	0.00067	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
2-Hexanone	ND		0.021	0.0041	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
4-Chlorotoluene	ND		0.0041	0.00081	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
4-Isopropyltoluene	ND		0.0041	0.00082	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
4-Methyl-2-pentanone	ND	*+	0.021	0.0041	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Acetone	ND		0.021	0.0099	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Benzene	ND		0.0041	0.00055	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Bromobenzene	ND		0.0041	0.0011	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Bromochloromethane	ND		0.0041	0.00067	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Bromodichloromethane	ND		0.0041	0.00076	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Bromoform	ND		0.0041	0.0011	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Bromomethane	ND		0.0041	0.0021	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Carbon disulfide	ND		0.0041	0.00054	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Carbon tetrachloride	ND		0.0041	0.0014	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Chlorobenzene	ND		0.0041	0.00043	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Chloroethane	ND		0.0041	0.00099	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Chloroform	ND		0.0041	0.00071	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Chloromethane	ND		0.0041	0.00082	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
cis-1,2-Dichloroethene	ND		0.0041	0.00063	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
cis-1,3-Dichloropropene	ND		0.0041	0.00099	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Cyclohexane	ND		0.0041	0.00077	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Dibromochloromethane	ND		0.0041	0.00099	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Dibromomethane	ND		0.0041	0.00068	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Dichlorodifluoromethane	ND		0.0041	0.0011	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Diisopropyl ether	ND		0.0041	0.00045	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1

Client Sample ID: MW-3 4'-6'

Date Collected: 01/13/22 10:29
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-3

Matrix: Solid
Percent Solids: 83.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	ND		0.0041	0.00058	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Ethylbenzene	ND		0.0041	0.00050	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Freon TF	ND		0.0041	0.00069	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Hexachlorobutadiene	ND		0.0041	0.0021	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Isobutyl alcohol	ND	*+	0.021	0.019	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Isopropylbenzene	ND		0.0041	0.00056	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
m&p-Xylene	ND		0.0041	0.0011	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Methyl acetate	ND		0.0041	0.0038	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Methyl iodide	ND		0.0041	0.0028	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Methyl t-butyl ether	ND		0.0041	0.00082	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Methylcyclohexane	ND		0.0041	0.00049	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Methylene Chloride	ND		0.012	0.0082	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Naphthalene	ND		0.0041	0.0016	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
n-Butylbenzene	ND		0.0041	0.00079	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
n-Propylbenzene	ND		0.0041	0.00074	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
o-Xylene	ND		0.0041	0.00082	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
sec-Butylbenzene	ND		0.0041	0.00078	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Styrene	ND		0.0041	0.00082	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Tert-amyl methyl ether	ND		0.0041	0.00082	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
tert-Butyl alcohol (TBA)	ND	*+	0.0082	0.0066	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
tert-Butylbenzene	ND		0.0041	0.00091	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Tetrachloroethene	ND		0.0041	0.00046	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Tetrahydrofuran	ND		0.0082	0.0041	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Toluene	ND		0.0041	0.00082	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
trans-1,2-Dichloroethene	ND		0.0041	0.00079	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
trans-1,3-Dichloropropene	ND		0.0041	0.00091	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Trichloroethene	ND		0.0041	0.00082	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Trichlorofluoromethane	ND		0.0041	0.00071	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Vinyl acetate	ND		0.021	0.0016	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Vinyl chloride	ND		0.0041	0.00066	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1
Xylenes, Total	ND		0.0082	0.0016	mg/Kg	☼	01/24/22 07:22	01/24/22 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*67 - 130*	*01/24/22 07:22*	*01/24/22 17:20*	*1*
Toluene-d8	*98*		*76 - 127*	*01/24/22 07:22*	*01/24/22 17:20*	*1*
Dibromofluoromethane	*104*		*77 - 127*	*01/24/22 07:22*	*01/24/22 17:20*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
1,2,4,5-Tetrachlorobenzene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
1,2,4-Trichlorobenzene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
1,2-Dichlorobenzene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
1,3-Dichlorobenzene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
1,4-Dichlorobenzene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
1-Methylnaphthalene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
2,2'-oxybis[1-chloropropane]	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
2,3,4,6-Tetrachlorophenol	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
2,4,5-Trichlorophenol	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
2,4,6-Trichlorophenol	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1

Client Sample ID: MW-3 4'-6'

Date Collected: 01/13/22 10:29
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-3

Matrix: Solid
Percent Solids: 83.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
2,4-Dimethylphenol	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
2,4-Dinitrophenol	ND		1.2	0.34	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
2,4-Dinitrotoluene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
2,6-Dinitrotoluene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
2-Chloronaphthalene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
2-Chlorophenol	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
2-Methylnaphthalene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
2-Methylphenol	ND		0.39	0.094	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
2-Nitroaniline	ND		0.39	0.083	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
2-Nitrophenol	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
3 & 4 Methylphenol	ND		0.78	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
3,3'-Dichlorobenzidine	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
3-Nitroaniline	ND		0.39	0.092	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
4,6-Dinitro-2-methylphenol	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
4-Bromophenyl phenyl ether	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
4-Chloro-3-methylphenol	ND		0.39	0.096	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
4-Chloroaniline	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
4-Chlorophenyl phenyl ether	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
4-Nitroaniline	ND		0.39	0.13	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
4-Nitrophenol	ND		0.39	0.13	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Acenaphthene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Acenaphthylene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Acetophenone	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Aniline	ND		0.39	0.051	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Anthracene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Atrazine	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Azobenzene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Benzaldehyde	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Benzo[a]anthracene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Benzo[a]pyrene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Benzo[b]fluoranthene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Benzo[g,h,i]perylene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Benzo[k]fluoranthene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Benzoic acid	ND		1.2	0.41	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Benzyl alcohol	ND		0.39	0.13	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Bis(2-chloroethoxy)methane	ND	*-	0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Bis(2-chloroethyl)ether	ND		0.39	0.11	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Bis(2-ethylhexyl) phthalate	ND		0.39	0.096	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Butyl benzyl phthalate	ND		0.39	0.084	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Caprolactam	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Carbazole	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Chrysene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Dibenz(a,h)anthracene	ND	*+	0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Dibenzofuran	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Diethyl phthalate	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Dimethyl phthalate	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Di-n-butyl phthalate	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Di-n-octyl phthalate	ND		0.39	0.14	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: MW-3 4'-6'

Date Collected: 01/13/22 10:29
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-3

Matrix: Solid
Percent Solids: 83.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Fluorene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Hexachlorobenzene	ND		0.39	0.12	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Hexachlorobutadiene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Hexachlorocyclopentadiene	ND		0.39	0.078	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Hexachloroethane	ND		0.39	0.037	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Indeno[1,2,3-cd]pyrene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Isophorone	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Naphthalene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Nitrobenzene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
N-Nitrosodimethylamine	ND		0.39	0.078	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
N-Nitrosodi-n-propylamine	ND		0.39	0.045	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
N-Nitrosodiphenylamine	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Pentachlorophenol	ND		0.78	0.078	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Phenanthrene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Phenol	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Pyrene	ND		0.39	0.039	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1
Pyridine	ND		0.39	0.18	mg/Kg	☼	01/21/22 09:06	01/21/22 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*81*		*10 - 150*	*01/21/22 09:06*	*01/21/22 22:50*	*1*
2-Fluorophenol (Surr)	*61*		*25 - 128*	*01/21/22 09:06*	*01/21/22 22:50*	*1*
Nitrobenzene-d5 (Surr)	*62*		*15 - 136*	*01/21/22 09:06*	*01/21/22 22:50*	*1*
Phenol-d5 (Surr)	*63*		*29 - 130*	*01/21/22 09:06*	*01/21/22 22:50*	*1*
Terphenyl-d14 (Surr)	*95*		*24 - 146*	*01/21/22 09:06*	*01/21/22 22:50*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		6.5	1.1	mg/Kg	☼	01/20/22 16:25	01/21/22 19:47	1
Arsenic	**7.5**		1.3	0.74	mg/Kg	☼	01/20/22 16:25	01/21/22 19:47	1
Barium	**310**		1.3	0.22	mg/Kg	☼	01/20/22 16:25	01/21/22 19:47	1
Beryllium	**0.39**		0.39	0.090	mg/Kg	☼	01/20/22 16:25	01/25/22 14:18	1
Cadmium	**0.15**	**J**	0.65	0.11	mg/Kg	☼	01/20/22 16:25	01/25/22 14:18	1
Chromium	**100**		1.3	0.40	mg/Kg	☼	01/20/22 16:25	01/21/22 19:47	1
Cobalt	**17**		1.3	0.25	mg/Kg	☼	01/20/22 16:25	01/21/22 19:47	1
Copper	**38**		2.6	0.97	mg/Kg	☼	01/20/22 16:25	01/21/22 19:47	1
Lead	**10**		1.3	0.28	mg/Kg	☼	01/20/22 16:25	01/21/22 19:47	1
Molybdenum	ND		1.3	0.37	mg/Kg	☼	01/20/22 16:25	01/21/22 19:47	1
Nickel	**170**		0.65	0.18	mg/Kg	☼	01/20/22 16:25	01/21/22 19:47	1
Selenium	ND		2.6	1.1	mg/Kg	☼	01/20/22 16:25	01/24/22 21:16	1
Silver	ND		0.65	0.43	mg/Kg	☼	01/20/22 16:25	01/21/22 19:47	1
Thallium	ND		1.3	0.63	mg/Kg	☼	01/20/22 16:25	01/25/22 14:18	1
Vanadium	**51**		2.6	1.1	mg/Kg	☼	01/20/22 16:25	01/21/22 19:47	1
Zinc	**75**		2.6	0.93	mg/Kg	☼	01/20/22 16:25	01/21/22 19:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.066**		0.018	0.011	mg/Kg	☼	01/26/22 13:49	01/27/22 16:46	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: MW-3 4'-6'

Date Collected: 01/13/22 10:29
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-3

Matrix: Solid
Percent Solids: 83.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND		5.9	3.3	mg/Kg	☼	01/23/22 04:00	01/23/22 23:06	1
Chromium, trivalent	**100**		6.0	0.44	mg/Kg	☼		01/23/22 03:12	1
Percent Solids	**83.9**		0.01	0.01	%			01/21/22 09:10	1
Percent Moisture	**16.1**		0.01	0.01	%			01/21/22 09:10	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: VP-1 4'-6'

Date Collected: 01/13/22 11:15
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-4

Matrix: Solid
Percent Solids: 85.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0029	0.00064	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
1,1,1-Trichloroethane	ND		0.0029	0.00064	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
1,1,2,2-Tetrachloroethane	ND		0.0029	0.00048	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
1,1,2-Trichloroethane	ND		0.0029	0.00046	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
1,1-Dichloroethane	ND		0.0029	0.00049	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
1,1-Dichloroethene	ND		0.0029	0.00050	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
1,1-Dichloropropene	ND		0.0029	0.00049	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
1,2,3-Trichlorobenzene	ND		0.0029	0.00064	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
1,2,3-Trichloropropane	ND		0.0029	0.00047	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
1,2,4-Trichlorobenzene	ND		0.0029	0.00054	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
1,2,4-Trimethylbenzene	ND		0.0029	0.00059	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
1,2-Dibromo-3-Chloropropane	ND		0.0029	0.0019	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
1,2-Dibromoethane	ND		0.0029	0.00059	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
1,2-Dichlorobenzene	ND		0.0029	0.00042	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
1,2-Dichloroethane	ND		0.0029	0.00048	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
1,2-Dichloroethene, Total	ND		0.0029	0.00056	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
1,2-Dichloropropane	ND		0.0029	0.00044	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
1,3,5-Trimethylbenzene	ND		0.0029	0.00049	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
1,3-Dichlorobenzene	ND		0.0029	0.00056	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
1,3-Dichloropropane	ND		0.0029	0.00059	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
1,4-Dichlorobenzene	ND		0.0029	0.00050	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
1,4-Dioxane	ND		0.29	0.029	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
2,2-Dichloropropane	ND		0.0029	0.00064	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
2-Butanone	ND	*+	0.015	0.0035	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
2-Chlorotoluene	ND		0.0029	0.00047	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
2-Hexanone	ND		0.015	0.0029	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
4-Chlorotoluene	ND		0.0029	0.00057	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
4-Isopropyltoluene	ND		0.0029	0.00059	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
4-Methyl-2-pentanone	ND	*+	0.015	0.0029	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Acetone	**0.011**	**J**	0.015	0.0070	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Benzene	ND		0.0029	0.00039	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Bromobenzene	ND		0.0029	0.00076	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Bromochloromethane	ND		0.0029	0.00047	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Bromodichloromethane	ND		0.0029	0.00054	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Bromoform	ND		0.0029	0.00076	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Bromomethane	ND		0.0029	0.0015	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Carbon disulfide	ND		0.0029	0.00039	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Carbon tetrachloride	ND		0.0029	0.0010	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Chlorobenzene	ND		0.0029	0.00030	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Chloroethane	ND		0.0029	0.00070	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Chloroform	ND		0.0029	0.00050	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Chloromethane	ND		0.0029	0.00059	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
cis-1,2-Dichloroethene	ND		0.0029	0.00044	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
cis-1,3-Dichloropropene	ND		0.0029	0.00070	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Cyclohexane	ND		0.0029	0.00055	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Dibromochloromethane	ND		0.0029	0.00070	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Dibromomethane	ND		0.0029	0.00049	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Dichlorodifluoromethane	ND		0.0029	0.00076	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Diisopropyl ether	ND		0.0029	0.00032	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1

Client Sample ID: VP-1 4'-6'

Date Collected: 01/13/22 11:15
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-4

Matrix: Solid
Percent Solids: 85.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	ND		0.0029	0.00041	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Ethylbenzene	ND		0.0029	0.00036	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Freon TF	ND		0.0029	0.00049	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Hexachlorobutadiene	ND		0.0029	0.0015	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Isobutyl alcohol	ND	*+	0.015	0.013	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Isopropylbenzene	ND		0.0029	0.00040	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
m&p-Xylene	ND		0.0029	0.00076	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Methyl acetate	ND		0.0029	0.0027	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Methyl iodide	ND		0.0029	0.0020	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Methyl t-butyl ether	ND		0.0029	0.00059	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Methylcyclohexane	ND		0.0029	0.00035	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Methylene Chloride	ND		0.0088	0.0059	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Naphthalene	ND		0.0029	0.0012	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
n-Butylbenzene	ND		0.0029	0.00056	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
n-Propylbenzene	ND		0.0029	0.00053	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
o-Xylene	ND		0.0029	0.00059	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
sec-Butylbenzene	ND		0.0029	0.00056	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Styrene	ND		0.0029	0.00059	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Tert-amyl methyl ether	ND		0.0029	0.00059	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
tert-Butyl alcohol (TBA)	ND	*+	0.0059	0.0047	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
tert-Butylbenzene	ND		0.0029	0.00064	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Tetrachloroethene	ND		0.0029	0.00033	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Tetrahydrofuran	ND		0.0059	0.0029	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Toluene	ND		0.0029	0.00059	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
trans-1,2-Dichloroethene	ND		0.0029	0.00056	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
trans-1,3-Dichloropropene	ND		0.0029	0.00064	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Trichloroethene	ND		0.0029	0.00059	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Trichlorofluoromethane	ND		0.0029	0.00050	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Vinyl acetate	ND		0.015	0.0011	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Vinyl chloride	ND		0.0029	0.00047	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1
Xylenes, Total	ND		0.0059	0.0011	mg/Kg	☼	01/24/22 07:22	01/24/22 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*67 - 130*	*01/24/22 07:22*	*01/24/22 17:46*	*1*
Toluene-d8	*96*		*76 - 127*	*01/24/22 07:22*	*01/24/22 17:46*	*1*
Dibromofluoromethane	*105*		*77 - 127*	*01/24/22 07:22*	*01/24/22 17:46*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
1,2,4,5-Tetrachlorobenzene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
1,2,4-Trichlorobenzene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
1,2-Dichlorobenzene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
1,3-Dichlorobenzene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
1,4-Dichlorobenzene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
1-Methylnaphthalene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
2,2'-oxybis[1-chloropropane]	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
2,3,4,6-Tetrachlorophenol	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
2,4,5-Trichlorophenol	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
2,4,6-Trichlorophenol	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1

Client Sample ID: VP-1 4'-6'

Date Collected: 01/13/22 11:15
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-4

Matrix: Solid
Percent Solids: 85.7

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
2,4-Dimethylphenol	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
2,4-Dinitrophenol	ND		1.1	0.34	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
2,4-Dinitrotoluene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
2,6-Dinitrotoluene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
2-Chloronaphthalene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
2-Chlorophenol	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
2-Methylnaphthalene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
2-Methylphenol	ND		0.38	0.093	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
2-Nitroaniline	ND		0.38	0.081	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
2-Nitrophenol	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
3 & 4 Methylphenol	ND		0.76	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
3,3'-Dichlorobenzidine	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
3-Nitroaniline	ND		0.38	0.090	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
4,6-Dinitro-2-methylphenol	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
4-Bromophenyl phenyl ether	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
4-Chloro-3-methylphenol	ND		0.38	0.094	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
4-Chloroaniline	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
4-Chlorophenyl phenyl ether	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
4-Nitroaniline	ND		0.38	0.13	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
4-Nitrophenol	ND		0.38	0.13	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Acenaphthene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Acenaphthylene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Acetophenone	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Aniline	ND		0.38	0.050	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Anthracene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Atrazine	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Azobenzene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Benzaldehyde	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Benzo[a]anthracene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Benzo[a]pyrene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Benzo[b]fluoranthene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Benzo[g,h,i]perylene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Benzo[k]fluoranthene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Benzoic acid	ND		1.1	0.40	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Benzyl alcohol	ND		0.38	0.13	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Bis(2-chloroethoxy)methane	ND	*-	0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Bis(2-chloroethyl)ether	ND		0.38	0.11	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Bis(2-ethylhexyl) phthalate	ND		0.38	0.094	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Butyl benzyl phthalate	ND		0.38	0.082	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Caprolactam	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Carbazole	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Chrysene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Dibenz(a,h)anthracene	ND	*+	0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Dibenzofuran	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Diethyl phthalate	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Dimethyl phthalate	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Di-n-butyl phthalate	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Di-n-octyl phthalate	ND		0.38	0.14	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: VP-1 4'-6'

Date Collected: 01/13/22 11:15
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-4

Matrix: Solid
Percent Solids: 85.7

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Fluorene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Hexachlorobenzene	ND		0.38	0.12	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Hexachlorobutadiene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Hexachlorocyclopentadiene	ND		0.38	0.076	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Hexachloroethane	ND		0.38	0.036	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Indeno[1,2,3-cd]pyrene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Isophorone	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Naphthalene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Nitrobenzene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
N-Nitrosodimethylamine	ND		0.38	0.076	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
N-Nitrosodi-n-propylamine	ND		0.38	0.044	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
N-Nitrosodiphenylamine	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Pentachlorophenol	ND		0.76	0.076	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Phenanthrene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Phenol	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Pyrene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1
Pyridine	ND		0.38	0.17	mg/Kg	☼	01/21/22 09:06	01/21/22 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*102*		*10 - 150*	*01/21/22 09:06*	*01/21/22 19:24*	*1*
2-Fluorophenol (Surr)	*51*		*25 - 128*	*01/21/22 09:06*	*01/21/22 19:24*	*1*
Nitrobenzene-d5 (Surr)	*53*		*15 - 136*	*01/21/22 09:06*	*01/21/22 19:24*	*1*
Phenol-d5 (Surr)	*49*		*29 - 130*	*01/21/22 09:06*	*01/21/22 19:24*	*1*
Terphenyl-d14 (Surr)	*109*		*24 - 146*	*01/21/22 09:06*	*01/21/22 19:24*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.3	0.94	mg/Kg	☼	01/20/22 16:25	01/21/22 19:52	1
Arsenic	**7.7**		1.1	0.61	mg/Kg	☼	01/20/22 16:25	01/21/22 19:52	1
Barium	**230**		1.1	0.18	mg/Kg	☼	01/20/22 16:25	01/21/22 19:52	1
Beryllium	ND		0.32	0.074	mg/Kg	☼	01/20/22 16:25	01/24/22 21:21	1
Cadmium	ND		0.53	0.094	mg/Kg	☼	01/20/22 16:25	01/25/22 14:23	1
Chromium	**76**		1.1	0.33	mg/Kg	☼	01/20/22 16:25	01/21/22 19:52	1
Cobalt	**18**		1.1	0.20	mg/Kg	☼	01/20/22 16:25	01/21/22 19:52	1
Copper	**34**		2.1	0.80	mg/Kg	☼	01/20/22 16:25	01/21/22 19:52	1
Lead	**10**		1.1	0.23	mg/Kg	☼	01/20/22 16:25	01/21/22 19:52	1
Molybdenum	ND		1.1	0.31	mg/Kg	☼	01/20/22 16:25	01/21/22 19:52	1
Nickel	**130**		0.53	0.15	mg/Kg	☼	01/20/22 16:25	01/21/22 19:52	1
Selenium	ND		2.1	0.93	mg/Kg	☼	01/20/22 16:25	01/24/22 21:21	1
Silver	ND		0.53	0.35	mg/Kg	☼	01/20/22 16:25	01/21/22 19:52	1
Thallium	ND		1.1	0.52	mg/Kg	☼	01/20/22 16:25	01/25/22 14:23	1
Vanadium	**45**		2.1	0.89	mg/Kg	☼	01/20/22 16:25	01/21/22 19:52	1
Zinc	**73**		2.1	0.77	mg/Kg	☼	01/20/22 16:25	01/21/22 19:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.052**		0.017	0.010	mg/Kg	☼	01/26/22 13:49	01/27/22 16:48	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: VP-1 4'-6'

Date Collected: 01/13/22 11:15
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-4

Matrix: Solid
Percent Solids: 85.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND		5.2	2.9	mg/Kg	☼	01/23/22 04:00	01/23/22 23:06	1
Chromium, trivalent	**76**		5.8	0.43	mg/Kg	☼		01/23/22 03:12	1
Percent Solids	**85.7**		0.01	0.01	%			01/21/22 09:10	1
Percent Moisture	**14.3**		0.01	0.01	%			01/21/22 09:10	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: VP-2 0'-2'

Date Collected: 01/13/22 12:20
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-5

Matrix: Solid
Percent Solids: 81.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0038	0.00084	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
1,1,1-Trichloroethane	ND		0.0038	0.00084	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
1,1,2,2-Tetrachloroethane	ND		0.0038	0.00063	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
1,1,2-Trichloroethane	ND		0.0038	0.00060	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
1,1-Dichloroethane	ND		0.0038	0.00064	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
1,1-Dichloroethene	ND		0.0038	0.00065	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
1,1-Dichloropropene	ND		0.0038	0.00064	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
1,2,3-Trichlorobenzene	ND		0.0038	0.00084	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
1,2,3-Trichloropropane	ND		0.0038	0.00061	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
1,2,4-Trichlorobenzene	ND		0.0038	0.00070	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
1,2,4-Trimethylbenzene	ND		0.0038	0.00077	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
1,2-Dibromo-3-Chloropropane	ND		0.0038	0.0025	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
1,2-Dibromoethane	ND		0.0038	0.00077	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
1,2-Dichlorobenzene	ND		0.0038	0.00054	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
1,2-Dichloroethane	ND		0.0038	0.00063	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
1,2-Dichloroethene, Total	ND		0.0038	0.00073	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
1,2-Dichloropropane	ND		0.0038	0.00058	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
1,3,5-Trimethylbenzene	ND		0.0038	0.00064	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
1,3-Dichlorobenzene	ND		0.0038	0.00073	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
1,3-Dichloropropane	ND		0.0038	0.00077	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
1,4-Dichlorobenzene	ND		0.0038	0.00066	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
1,4-Dioxane	ND		0.38	0.038	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
2,2-Dichloropropane	ND		0.0038	0.00084	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
2-Butanone	**0.0070**	**J *+**	0.019	0.0046	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
2-Chlorotoluene	ND		0.0038	0.00062	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
2-Hexanone	ND		0.019	0.0038	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
4-Chlorotoluene	ND		0.0038	0.00075	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
4-Isopropyltoluene	ND		0.0038	0.00077	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
4-Methyl-2-pentanone	ND	*+	0.019	0.0038	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Acetone	**0.052**		0.019	0.0092	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Benzene	ND		0.0038	0.00051	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Bromobenzene	ND		0.0038	0.00099	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Bromochloromethane	ND		0.0038	0.00062	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Bromodichloromethane	ND		0.0038	0.00070	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Bromoform	ND		0.0038	0.00099	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Bromomethane	ND		0.0038	0.0019	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Carbon disulfide	ND		0.0038	0.00051	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Carbon tetrachloride	ND		0.0038	0.0013	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Chlorobenzene	ND		0.0038	0.00040	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Chloroethane	ND		0.0038	0.00092	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Chloroform	ND		0.0038	0.00066	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Chloromethane	ND		0.0038	0.00077	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
cis-1,2-Dichloroethene	ND		0.0038	0.00058	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
cis-1,3-Dichloropropene	ND		0.0038	0.00092	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Cyclohexane	ND		0.0038	0.00072	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Dibromochloromethane	ND		0.0038	0.00092	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Dibromomethane	ND		0.0038	0.00064	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Dichlorodifluoromethane	ND		0.0038	0.00099	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Diisopropyl ether	ND		0.0038	0.00042	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1

Client Sample ID: VP-2 0'-2'

Date Collected: 01/13/22 12:20
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-5

Matrix: Solid
Percent Solids: 81.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	ND		0.0038	0.00054	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Ethylbenzene	ND		0.0038	0.00047	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Freon TF	ND		0.0038	0.00064	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Hexachlorobutadiene	ND		0.0038	0.0019	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Isobutyl alcohol	ND	*+	0.019	0.018	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Isopropylbenzene	ND		0.0038	0.00052	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
m&p-Xylene	ND		0.0038	0.00099	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Methyl acetate	ND		0.0038	0.0035	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Methyl iodide	ND		0.0038	0.0026	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Methyl t-butyl ether	ND		0.0038	0.00077	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Methylcyclohexane	ND		0.0038	0.00045	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Methylene Chloride	ND		0.011	0.0077	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Naphthalene	ND		0.0038	0.0015	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
n-Butylbenzene	ND		0.0038	0.00073	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
n-Propylbenzene	ND		0.0038	0.00069	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
o-Xylene	ND		0.0038	0.00077	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
sec-Butylbenzene	ND		0.0038	0.00073	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Styrene	ND		0.0038	0.00077	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Tert-amyl methyl ether	ND		0.0038	0.00077	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
tert-Butyl alcohol (TBA)	ND	*+	0.0077	0.0061	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
tert-Butylbenzene	ND		0.0038	0.00084	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Tetrachloroethene	ND		0.0038	0.00043	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Tetrahydrofuran	ND		0.0077	0.0038	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Toluene	ND		0.0038	0.00077	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
trans-1,2-Dichloroethene	ND		0.0038	0.00073	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
trans-1,3-Dichloropropene	ND		0.0038	0.00084	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Trichloroethene	ND		0.0038	0.00077	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Trichlorofluoromethane	ND		0.0038	0.00066	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Vinyl acetate	ND		0.019	0.0015	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Vinyl chloride	ND		0.0038	0.00061	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1
Xylenes, Total	ND		0.0077	0.0015	mg/Kg	☼	01/24/22 07:22	01/24/22 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*67 - 130*	*01/24/22 07:22*	*01/24/22 18:12*	*1*
Toluene-d8	*95*		*76 - 127*	*01/24/22 07:22*	*01/24/22 18:12*	*1*
Dibromofluoromethane	*109*		*77 - 127*	*01/24/22 07:22*	*01/24/22 18:12*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
1,2,4,5-Tetrachlorobenzene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
1,2,4-Trichlorobenzene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
1,2-Dichlorobenzene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
1,3-Dichlorobenzene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
1,4-Dichlorobenzene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
1-Methylnaphthalene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
2,2'-oxybis[1-chloropropane]	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
2,3,4,6-Tetrachlorophenol	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
2,4,5-Trichlorophenol	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
2,4,6-Trichlorophenol	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5

Client Sample ID: VP-2 0'-2'

Date Collected: 01/13/22 12:20
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-5

Matrix: Solid
Percent Solids: 81.5

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
2,4-Dimethylphenol	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
2,4-Dinitrophenol	ND		6.0	1.8	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
2,4-Dinitrotoluene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
2,6-Dinitrotoluene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
2-Chloronaphthalene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
2-Chlorophenol	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
2-Methylnaphthalene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
2-Methylphenol	ND		2.0	0.49	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
2-Nitroaniline	ND		2.0	0.42	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
2-Nitrophenol	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
3 & 4 Methylphenol	ND		4.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
3,3'-Dichlorobenzidine	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
3-Nitroaniline	ND		2.0	0.47	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
4,6-Dinitro-2-methylphenol	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
4-Bromophenyl phenyl ether	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
4-Chloro-3-methylphenol	ND		2.0	0.49	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
4-Chloroaniline	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
4-Chlorophenyl phenyl ether	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
4-Nitroaniline	ND		2.0	0.69	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
4-Nitrophenol	ND		2.0	0.67	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Acenaphthene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Acenaphthylene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Acetophenone	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Aniline	ND		2.0	0.26	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Anthracene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Atrazine	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Azobenzene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Benzaldehyde	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Benzo[a]anthracene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Benzo[a]pyrene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Benzo[b]fluoranthene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Benzo[g,h,i]perylene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Benzo[k]fluoranthene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Benzoic acid	ND		6.0	2.1	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Benzyl alcohol	ND		2.0	0.67	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Bis(2-chloroethoxy)methane	ND	*-	2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Bis(2-chloroethyl)ether	ND		2.0	0.56	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Bis(2-ethylhexyl) phthalate	ND		2.0	0.49	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Butyl benzyl phthalate	ND		2.0	0.43	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Caprolactam	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Carbazole	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Chrysene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Dibenz(a,h)anthracene	ND	*+	2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Dibenzofuran	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Diethyl phthalate	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Dimethyl phthalate	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Di-n-butyl phthalate	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Di-n-octyl phthalate	ND		2.0	0.73	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: VP-2 0'-2'

Date Collected: 01/13/22 12:20
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-5

Matrix: Solid
Percent Solids: 81.5

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Fluorene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Hexachlorobenzene	ND		2.0	0.61	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Hexachlorobutadiene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Hexachlorocyclopentadiene	ND		2.0	0.40	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Hexachloroethane	ND		2.0	0.19	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Indeno[1,2,3-cd]pyrene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Isophorone	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Naphthalene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Nitrobenzene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
N-Nitrosodimethylamine	ND		2.0	0.40	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
N-Nitrosodi-n-propylamine	ND		2.0	0.23	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
N-Nitrosodiphenylamine	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Pentachlorophenol	ND		4.0	0.40	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Phenanthrene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Phenol	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Pyrene	ND		2.0	0.20	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5
Pyridine	ND		2.0	0.91	mg/Kg	☼	01/21/22 09:06	01/21/22 19:49	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*102*		*10 - 150*	*01/21/22 09:06*	*01/21/22 19:49*	*5*
2-Fluorophenol (Surr)	*52*		*25 - 128*	*01/21/22 09:06*	*01/21/22 19:49*	*5*
Nitrobenzene-d5 (Surr)	*49*		*15 - 136*	*01/21/22 09:06*	*01/21/22 19:49*	*5*
Phenol-d5 (Surr)	*52*		*29 - 130*	*01/21/22 09:06*	*01/21/22 19:49*	*5*
Terphenyl-d14 (Surr)	*106*		*24 - 146*	*01/21/22 09:06*	*01/21/22 19:49*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		6.3	1.1	mg/Kg	☼	01/20/22 16:25	01/21/22 19:57	1
Arsenic	**7.1**		1.3	0.71	mg/Kg	☼	01/20/22 16:25	01/21/22 19:57	1
Barium	**230**		1.3	0.21	mg/Kg	☼	01/20/22 16:25	01/21/22 19:57	1
Beryllium	ND		0.38	0.088	mg/Kg	☼	01/20/22 16:25	01/25/22 14:28	1
Cadmium	ND		0.63	0.11	mg/Kg	☼	01/20/22 16:25	01/25/22 14:28	1
Chromium	**160**		1.3	0.39	mg/Kg	☼	01/20/22 16:25	01/21/22 19:57	1
Cobalt	**24**		1.3	0.24	mg/Kg	☼	01/20/22 16:25	01/21/22 19:57	1
Copper	**30**		2.5	0.94	mg/Kg	☼	01/20/22 16:25	01/21/22 19:57	1
Lead	**11**		1.3	0.28	mg/Kg	☼	01/20/22 16:25	01/21/22 19:57	1
Molybdenum	**1.8**		1.3	0.36	mg/Kg	☼	01/20/22 16:25	01/21/22 19:57	1
Nickel	**300**		0.63	0.18	mg/Kg	☼	01/20/22 16:25	01/21/22 19:57	1
Selenium	ND		2.5	1.1	mg/Kg	☼	01/20/22 16:25	01/24/22 21:26	1
Silver	ND		0.63	0.41	mg/Kg	☼	01/20/22 16:25	01/21/22 19:57	1
Thallium	ND		1.3	0.61	mg/Kg	☼	01/20/22 16:25	01/21/22 19:57	1
Vanadium	**55**		2.5	1.1	mg/Kg	☼	01/20/22 16:25	01/21/22 19:57	1
Zinc	**54**		2.5	0.90	mg/Kg	☼	01/20/22 16:25	01/21/22 19:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.94**		0.019	0.011	mg/Kg	☼	01/26/22 13:49	01/27/22 16:50	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: VP-2 0'-2'

Date Collected: 01/13/22 12:20
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-5

Matrix: Solid
Percent Solids: 81.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND		5.9	3.3	mg/Kg	☼	01/23/22 04:00	01/23/22 23:06	1
Chromium, trivalent	**160**		6.1	0.45	mg/Kg	☼		01/23/22 03:12	1
Percent Solids	**81.5**		0.01	0.01	%			01/21/22 09:10	1
Percent Moisture	**18.5**		0.01	0.01	%			01/21/22 09:10	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: VP-3 4'-6'

Date Collected: 01/13/22 11:37
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-6

Matrix: Solid
Percent Solids: 82.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0049	0.0011	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
1,1,1-Trichloroethane	ND		0.0049	0.0011	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
1,1,2,2-Tetrachloroethane	ND		0.0049	0.00080	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
1,1,2-Trichloroethane	ND		0.0049	0.00076	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
1,1-Dichloroethane	ND		0.0049	0.00081	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
1,1-Dichloroethene	ND		0.0049	0.00083	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
1,1-Dichloropropene	ND		0.0049	0.00081	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
1,2,3-Trichlorobenzene	ND		0.0049	0.0011	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
1,2,3-Trichloropropane	ND		0.0049	0.00078	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
1,2,4-Trichlorobenzene	ND		0.0049	0.00090	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
1,2,4-Trimethylbenzene	ND		0.0049	0.00098	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
1,2-Dibromo-3-Chloropropane	ND		0.0049	0.0032	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
1,2-Dibromoethane	ND		0.0049	0.00098	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
1,2-Dichlorobenzene	ND		0.0049	0.00069	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
1,2-Dichloroethane	ND		0.0049	0.00080	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
1,2-Dichloroethene, Total	ND		0.0049	0.00094	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
1,2-Dichloropropane	ND		0.0049	0.00074	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
1,3,5-Trimethylbenzene	ND		0.0049	0.00081	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
1,3-Dichlorobenzene	ND		0.0049	0.00093	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
1,3-Dichloropropane	ND		0.0049	0.00098	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
1,4-Dichlorobenzene	ND		0.0049	0.00084	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
1,4-Dioxane	ND		0.49	0.049	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
2,2-Dichloropropane	ND		0.0049	0.0011	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
2-Butanone	ND	*+	0.024	0.0059	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
2-Chlorotoluene	ND		0.0049	0.00079	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
2-Hexanone	ND		0.024	0.0049	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
4-Chlorotoluene	ND		0.0049	0.00096	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
4-Isopropyltoluene	ND		0.0049	0.00098	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
4-Methyl-2-pentanone	ND	*+	0.024	0.0049	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Acetone	ND		0.024	0.012	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Benzene	ND		0.0049	0.00065	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Bromobenzene	ND		0.0049	0.0013	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Bromochloromethane	ND		0.0049	0.00079	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Bromodichloromethane	ND		0.0049	0.00090	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Bromoform	ND		0.0049	0.0013	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Bromomethane	ND		0.0049	0.0024	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Carbon disulfide	ND		0.0049	0.00064	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Carbon tetrachloride	ND		0.0049	0.0017	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Chlorobenzene	ND		0.0049	0.00051	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Chloroethane	ND		0.0049	0.0012	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Chloroform	ND		0.0049	0.00084	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Chloromethane	ND		0.0049	0.00098	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
cis-1,2-Dichloroethene	ND		0.0049	0.00074	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
cis-1,3-Dichloropropene	ND		0.0049	0.0012	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Cyclohexane	ND		0.0049	0.00092	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Dibromochloromethane	ND		0.0049	0.0012	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Dibromomethane	ND		0.0049	0.00081	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Dichlorodifluoromethane	ND		0.0049	0.0013	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Diisopropyl ether	ND		0.0049	0.00054	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1

Client Sample ID: VP-3 4'-6'

Date Collected: 01/13/22 11:37
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-6

Matrix: Solid
Percent Solids: 82.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	ND		0.0049	0.00068	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Ethylbenzene	ND		0.0049	0.00060	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Freon TF	ND		0.0049	0.00082	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Hexachlorobutadiene	ND		0.0049	0.0024	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Isobutyl alcohol	ND	*+	0.024	0.022	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Isopropylbenzene	ND		0.0049	0.00066	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
m&p-Xylene	ND		0.0049	0.0013	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Methyl acetate	ND		0.0049	0.0045	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Methyl iodide	ND		0.0049	0.0033	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Methyl t-butyl ether	ND		0.0049	0.00098	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Methylcyclohexane	ND		0.0049	0.00058	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Methylene Chloride	ND		0.015	0.0098	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Naphthalene	ND		0.0049	0.0020	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
n-Butylbenzene	ND		0.0049	0.00094	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
n-Propylbenzene	ND		0.0049	0.00088	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
o-Xylene	ND		0.0049	0.00098	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
sec-Butylbenzene	ND		0.0049	0.00093	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Styrene	ND		0.0049	0.00098	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Tert-amyl methyl ether	ND		0.0049	0.00098	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
tert-Butyl alcohol (TBA)	ND	*+	0.0098	0.0078	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
tert-Butylbenzene	ND		0.0049	0.0011	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Tetrachloroethene	ND		0.0049	0.00055	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Tetrahydrofuran	ND		0.0098	0.0049	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Toluene	ND		0.0049	0.00098	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
trans-1,2-Dichloroethene	ND		0.0049	0.00094	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
trans-1,3-Dichloropropene	ND		0.0049	0.0011	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Trichloroethene	ND		0.0049	0.00098	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Trichlorofluoromethane	ND		0.0049	0.00084	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Vinyl acetate	ND		0.024	0.0019	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Vinyl chloride	ND		0.0049	0.00078	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1
Xylenes, Total	ND		0.0098	0.0019	mg/Kg	☼	01/24/22 07:22	01/24/22 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*67 - 130*	*01/24/22 07:22*	*01/24/22 18:38*	*1*
Toluene-d8	*96*		*76 - 127*	*01/24/22 07:22*	*01/24/22 18:38*	*1*
Dibromofluoromethane	*106*		*77 - 127*	*01/24/22 07:22*	*01/24/22 18:38*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
1,2,4,5-Tetrachlorobenzene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
1,2,4-Trichlorobenzene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
1,2-Dichlorobenzene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
1,3-Dichlorobenzene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
1,4-Dichlorobenzene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
1-Methylnaphthalene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
2,2'-oxybis[1-chloropropane]	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
2,3,4,6-Tetrachlorophenol	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
2,4,5-Trichlorophenol	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
2,4,6-Trichlorophenol	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2

Client Sample ID: VP-3 4'-6'

Date Collected: 01/13/22 11:37
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-6

Matrix: Solid
Percent Solids: 82.0

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
2,4-Dimethylphenol	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
2,4-Dinitrophenol	ND		2.4	0.70	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
2,4-Dinitrotoluene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
2,6-Dinitrotoluene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
2-Chloronaphthalene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
2-Chlorophenol	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
2-Methylnaphthalene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
2-Methylphenol	ND		0.79	0.19	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
2-Nitroaniline	ND		0.79	0.17	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
2-Nitrophenol	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
3 & 4 Methylphenol	ND		1.6	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
3,3'-Dichlorobenzidine	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
3-Nitroaniline	ND		0.79	0.19	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
4,6-Dinitro-2-methylphenol	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
4-Bromophenyl phenyl ether	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
4-Chloro-3-methylphenol	ND		0.79	0.19	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
4-Chloroaniline	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
4-Chlorophenyl phenyl ether	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
4-Nitroaniline	ND		0.79	0.27	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
4-Nitrophenol	ND		0.79	0.26	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Acenaphthene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Acenaphthylene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Acetophenone	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Aniline	ND		0.79	0.10	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Anthracene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Atrazine	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Azobenzene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Benzaldehyde	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Benzo[a]anthracene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Benzo[a]pyrene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Benzo[b]fluoranthene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Benzo[g,h,i]perylene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Benzo[k]fluoranthene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Benzoic acid	ND		2.4	0.84	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Benzyl alcohol	ND		0.79	0.26	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Bis(2-chloroethoxy)methane	ND	*-	0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Bis(2-chloroethyl)ether	ND		0.79	0.22	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Bis(2-ethylhexyl) phthalate	ND		0.79	0.19	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Butyl benzyl phthalate	ND		0.79	0.17	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Caprolactam	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Carbazole	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Chrysene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Dibenz(a,h)anthracene	ND	*+	0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Dibenzofuran	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Diethyl phthalate	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Dimethyl phthalate	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Di-n-butyl phthalate	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Di-n-octyl phthalate	ND		0.79	0.29	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: VP-3 4'-6'

Date Collected: 01/13/22 11:37
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-6

Matrix: Solid
Percent Solids: 82.0

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Fluorene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Hexachlorobenzene	ND		0.79	0.24	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Hexachlorobutadiene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Hexachlorocyclopentadiene	ND		0.79	0.16	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Hexachloroethane	ND		0.79	0.074	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Indeno[1,2,3-cd]pyrene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Isophorone	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Naphthalene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Nitrobenzene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
N-Nitrosodimethylamine	ND		0.79	0.16	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
N-Nitrosodi-n-propylamine	ND		0.79	0.091	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
N-Nitrosodiphenylamine	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Pentachlorophenol	ND		1.6	0.16	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Phenanthrene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Phenol	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Pyrene	ND		0.79	0.079	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2
Pyridine	ND		0.79	0.36	mg/Kg	☼	01/21/22 09:06	01/21/22 20:13	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*105*		*10 - 150*	*01/21/22 09:06*	*01/21/22 20:13*	*2*
2-Fluorophenol (Surr)	*56*		*25 - 128*	*01/21/22 09:06*	*01/21/22 20:13*	*2*
Nitrobenzene-d5 (Surr)	*59*		*15 - 136*	*01/21/22 09:06*	*01/21/22 20:13*	*2*
Phenol-d5 (Surr)	*55*		*29 - 130*	*01/21/22 09:06*	*01/21/22 20:13*	*2*
Terphenyl-d14 (Surr)	*115*		*24 - 146*	*01/21/22 09:06*	*01/21/22 20:13*	*2*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.9	1.0	mg/Kg	☼	01/20/22 16:25	01/21/22 20:02	1
Arsenic	**9.5**		1.2	0.67	mg/Kg	☼	01/20/22 16:25	01/21/22 20:02	1
Barium	**210**		1.2	0.20	mg/Kg	☼	01/20/22 16:25	01/21/22 20:02	1
Beryllium	ND		0.35	0.082	mg/Kg	☼	01/20/22 16:25	01/21/22 20:02	1
Cadmium	ND		0.59	0.10	mg/Kg	☼	01/20/22 16:25	01/25/22 14:33	1
Chromium	**71**		1.2	0.36	mg/Kg	☼	01/20/22 16:25	01/21/22 20:02	1
Cobalt	**18**		1.2	0.22	mg/Kg	☼	01/20/22 16:25	01/21/22 20:02	1
Copper	**38**		2.3	0.88	mg/Kg	☼	01/20/22 16:25	01/21/22 20:02	1
Lead	**12**		1.2	0.26	mg/Kg	☼	01/20/22 16:25	01/21/22 20:02	1
Molybdenum	ND		1.2	0.34	mg/Kg	☼	01/20/22 16:25	01/21/22 20:02	1
Nickel	**120**		0.59	0.16	mg/Kg	☼	01/20/22 16:25	01/21/22 20:02	1
Selenium	ND		2.3	1.0	mg/Kg	☼	01/20/22 16:25	01/24/22 21:31	1
Silver	ND		0.59	0.39	mg/Kg	☼	01/20/22 16:25	01/21/22 20:02	1
Thallium	ND		1.2	0.57	mg/Kg	☼	01/20/22 16:25	01/25/22 14:33	1
Vanadium	**48**		2.3	0.98	mg/Kg	☼	01/20/22 16:25	01/21/22 20:02	1
Zinc	**77**		2.3	0.84	mg/Kg	☼	01/20/22 16:25	01/21/22 20:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.076**		0.019	0.011	mg/Kg	☼	01/26/22 13:49	01/27/22 16:52	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: VP-3 4'-6'

Date Collected: 01/13/22 11:37
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-6

Matrix: Solid
Percent Solids: 82.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND		5.7	3.2	mg/Kg	☼	01/23/22 04:00	01/23/22 23:06	1
Chromium, trivalent	**71**		6.1	0.45	mg/Kg	☼		01/23/22 03:12	1
Percent Solids	**82.0**		0.01	0.01	%			01/21/22 09:10	1
Percent Moisture	**18.0**		0.01	0.01	%			01/21/22 09:10	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: VP-4 2'-4'

Date Collected: 01/13/22 12:00
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-7

Matrix: Solid
Percent Solids: 83.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0046	0.0010	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
1,1,1-Trichloroethane	ND		0.0046	0.0010	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
1,1,2,2-Tetrachloroethane	ND		0.0046	0.00075	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
1,1,2-Trichloroethane	ND		0.0046	0.00072	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
1,1-Dichloroethane	ND		0.0046	0.00076	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
1,1-Dichloroethene	ND		0.0046	0.00078	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
1,1-Dichloropropene	ND		0.0046	0.00076	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
1,2,3-Trichlorobenzene	ND		0.0046	0.0010	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
1,2,3-Trichloropropane	ND		0.0046	0.00074	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
1,2,4-Trichlorobenzene	ND		0.0046	0.00085	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
1,2,4-Trimethylbenzene	ND		0.0046	0.00092	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
1,2-Dibromo-3-Chloropropane	ND		0.0046	0.0030	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
1,2-Dibromoethane	ND		0.0046	0.00092	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
1,2-Dichlorobenzene	ND		0.0046	0.00065	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
1,2-Dichloroethane	ND		0.0046	0.00075	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
1,2-Dichloroethene, Total	ND		0.0046	0.00088	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
1,2-Dichloropropane	ND		0.0046	0.00070	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
1,3,5-Trimethylbenzene	ND		0.0046	0.00076	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
1,3-Dichlorobenzene	ND		0.0046	0.00087	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
1,3-Dichloropropane	ND		0.0046	0.00092	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
1,4-Dichlorobenzene	ND		0.0046	0.00079	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
1,4-Dioxane	ND		0.46	0.046	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
2,2-Dichloropropane	ND		0.0046	0.0010	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
2-Butanone	ND	*+	0.023	0.0055	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
2-Chlorotoluene	ND		0.0046	0.00075	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
2-Hexanone	ND		0.023	0.0046	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
4-Chlorotoluene	ND		0.0046	0.00090	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
4-Isopropyltoluene	ND		0.0046	0.00092	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
4-Methyl-2-pentanone	ND	*+	0.023	0.0046	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Acetone	ND		0.023	0.011	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Benzene	ND		0.0046	0.00062	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Bromobenzene	ND		0.0046	0.0012	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Bromochloromethane	ND		0.0046	0.00075	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Bromodichloromethane	ND		0.0046	0.00085	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Bromoform	ND		0.0046	0.0012	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Bromomethane	ND		0.0046	0.0023	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Carbon disulfide	ND		0.0046	0.00061	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Carbon tetrachloride	ND		0.0046	0.0016	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Chlorobenzene	ND		0.0046	0.00048	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Chloroethane	ND		0.0046	0.0011	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Chloroform	ND		0.0046	0.00079	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Chloromethane	ND		0.0046	0.00092	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
cis-1,2-Dichloroethene	ND		0.0046	0.00070	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
cis-1,3-Dichloropropene	ND		0.0046	0.0011	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Cyclohexane	ND		0.0046	0.00086	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Dibromochloromethane	ND		0.0046	0.0011	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Dibromomethane	ND		0.0046	0.00076	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Dichlorodifluoromethane	ND		0.0046	0.0012	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Diisopropyl ether	ND		0.0046	0.00051	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: VP-4 2'-4'

Date Collected: 01/13/22 12:00
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-7

Matrix: Solid
Percent Solids: 83.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	ND		0.0046	0.00064	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Ethylbenzene	ND		0.0046	0.00056	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Freon TF	ND		0.0046	0.00077	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Hexachlorobutadiene	ND		0.0046	0.0023	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Isobutyl alcohol	ND	*+	0.023	0.021	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Isopropylbenzene	ND		0.0046	0.00063	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
m&p-Xylene	ND		0.0046	0.0012	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Methyl acetate	ND		0.0046	0.0042	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Methyl iodide	ND		0.0046	0.0031	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Methyl t-butyl ether	ND		0.0046	0.00092	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Methylcyclohexane	ND		0.0046	0.00054	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Methylene Chloride	ND		0.014	0.0092	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Naphthalene	ND		0.0046	0.0018	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
n-Butylbenzene	ND		0.0046	0.00088	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
n-Propylbenzene	ND		0.0046	0.00083	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
o-Xylene	ND		0.0046	0.00092	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
sec-Butylbenzene	ND		0.0046	0.00087	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Styrene	ND		0.0046	0.00092	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Tert-amyl methyl ether	ND		0.0046	0.00092	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
tert-Butyl alcohol (TBA)	ND	*+	0.0092	0.0074	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
tert-Butylbenzene	ND		0.0046	0.0010	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Tetrachloroethene	ND		0.0046	0.00052	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Tetrahydrofuran	ND		0.0092	0.0046	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Toluene	ND		0.0046	0.00092	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
trans-1,2-Dichloroethene	ND		0.0046	0.00088	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
trans-1,3-Dichloropropene	ND		0.0046	0.0010	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Trichloroethene	ND		0.0046	0.00092	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Trichlorofluoromethane	ND		0.0046	0.00079	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Vinyl acetate	ND		0.023	0.0017	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Vinyl chloride	ND		0.0046	0.00074	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1
Xylenes, Total	ND		0.0092	0.0017	mg/Kg	☼	01/24/22 07:22	01/24/22 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*67 - 130*	*01/24/22 07:22*	*01/24/22 19:04*	*1*
Toluene-d8	*95*		*76 - 127*	*01/24/22 07:22*	*01/24/22 19:04*	*1*
Dibromofluoromethane	*106*		*77 - 127*	*01/24/22 07:22*	*01/24/22 19:04*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
1,2,4,5-Tetrachlorobenzene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
1,2,4-Trichlorobenzene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
1,2-Dichlorobenzene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
1,3-Dichlorobenzene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
1,4-Dichlorobenzene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
1-Methylnaphthalene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
2,2'-oxybis[1-chloropropane]	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
2,3,4,6-Tetrachlorophenol	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
2,4,5-Trichlorophenol	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
2,4,6-Trichlorophenol	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1

Client Sample ID: VP-4 2'-4'

Date Collected: 01/13/22 12:00
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-7

Matrix: Solid
Percent Solids: 83.7

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
2,4-Dimethylphenol	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
2,4-Dinitrophenol	ND		1.2	0.34	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
2,4-Dinitrotoluene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
2,6-Dinitrotoluene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
2-Chloronaphthalene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
2-Chlorophenol	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
2-Methylnaphthalene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
2-Methylphenol	ND		0.38	0.093	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
2-Nitroaniline	ND		0.38	0.081	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
2-Nitrophenol	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
3 & 4 Methylphenol	ND		0.77	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
3,3'-Dichlorobenzidine	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
3-Nitroaniline	ND		0.38	0.091	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
4,6-Dinitro-2-methylphenol	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
4-Bromophenyl phenyl ether	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
4-Chloro-3-methylphenol	ND		0.38	0.094	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
4-Chloroaniline	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
4-Chlorophenyl phenyl ether	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
4-Nitroaniline	ND		0.38	0.13	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
4-Nitrophenol	ND		0.38	0.13	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Acenaphthene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Acenaphthylene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Acetophenone	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Aniline	ND		0.38	0.050	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Anthracene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Atrazine	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Azobenzene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Benzaldehyde	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Benzo[a]anthracene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Benzo[a]pyrene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Benzo[b]fluoranthene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Benzo[g,h,i]perylene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Benzo[k]fluoranthene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Benzoic acid	ND		1.2	0.41	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Benzyl alcohol	ND		0.38	0.13	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Bis(2-chloroethoxy)methane	ND	*-	0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Bis(2-chloroethyl)ether	ND		0.38	0.11	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Bis(2-ethylhexyl) phthalate	ND		0.38	0.094	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Butyl benzyl phthalate	ND		0.38	0.083	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Caprolactam	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Carbazole	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Chrysene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Dibenz(a,h)anthracene	ND	*+	0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Dibenzofuran	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Diethyl phthalate	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Dimethyl phthalate	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Di-n-butyl phthalate	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Di-n-octyl phthalate	ND		0.38	0.14	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: VP-4 2'-4'

Date Collected: 01/13/22 12:00
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-7

Matrix: Solid
Percent Solids: 83.7

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Fluorene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Hexachlorobenzene	ND		0.38	0.12	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Hexachlorobutadiene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Hexachlorocyclopentadiene	ND		0.38	0.077	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Hexachloroethane	ND		0.38	0.036	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Indeno[1,2,3-cd]pyrene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Isophorone	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Naphthalene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Nitrobenzene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
N-Nitrosodimethylamine	ND		0.38	0.077	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
N-Nitrosodi-n-propylamine	ND		0.38	0.044	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
N-Nitrosodiphenylamine	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Pentachlorophenol	ND		0.77	0.077	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Phenanthrene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Phenol	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Pyrene	ND		0.38	0.038	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1
Pyridine	ND		0.38	0.17	mg/Kg	☼	01/21/22 09:06	01/21/22 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*101*		*10 - 150*	*01/21/22 09:06*	*01/21/22 20:38*	*1*
2-Fluorophenol (Surr)	*53*		*25 - 128*	*01/21/22 09:06*	*01/21/22 20:38*	*1*
Nitrobenzene-d5 (Surr)	*58*		*15 - 136*	*01/21/22 09:06*	*01/21/22 20:38*	*1*
Phenol-d5 (Surr)	*55*		*29 - 130*	*01/21/22 09:06*	*01/21/22 20:38*	*1*
Terphenyl-d14 (Surr)	*99*		*24 - 146*	*01/21/22 09:06*	*01/21/22 20:38*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.8	1.0	mg/Kg	☼	01/20/22 16:25	01/21/22 20:28	1
Arsenic	**9.4**		1.2	0.66	mg/Kg	☼	01/20/22 16:25	01/21/22 20:28	1
Barium	**230**		1.2	0.20	mg/Kg	☼	01/20/22 16:25	01/21/22 20:28	1
Beryllium	ND		0.35	0.081	mg/Kg	☼	01/20/22 16:25	01/21/22 20:28	1
Cadmium	ND		0.58	0.10	mg/Kg	☼	01/20/22 16:25	01/25/22 14:39	1
Chromium	**110**		1.2	0.36	mg/Kg	☼	01/20/22 16:25	01/21/22 20:28	1
Cobalt	**22**		1.2	0.22	mg/Kg	☼	01/20/22 16:25	01/21/22 20:28	1
Copper	**40**		2.3	0.86	mg/Kg	☼	01/20/22 16:25	01/21/22 20:28	1
Lead	**11**		1.2	0.25	mg/Kg	☼	01/20/22 16:25	01/21/22 20:28	1
Molybdenum	ND		1.2	0.33	mg/Kg	☼	01/20/22 16:25	01/21/22 20:28	1
Nickel	**200**		0.58	0.16	mg/Kg	☼	01/20/22 16:25	01/21/22 20:28	1
Selenium	ND		2.3	1.0	mg/Kg	☼	01/20/22 16:25	01/24/22 21:36	1
Silver	ND		0.58	0.38	mg/Kg	☼	01/20/22 16:25	01/21/22 20:28	1
Thallium	ND		1.2	0.56	mg/Kg	☼	01/20/22 16:25	01/25/22 14:39	1
Vanadium	**55**		2.3	0.97	mg/Kg	☼	01/20/22 16:25	01/21/22 20:28	1
Zinc	**77**		2.3	0.83	mg/Kg	☼	01/20/22 16:25	01/21/22 20:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.067**		0.018	0.011	mg/Kg	☼	01/26/22 13:49	01/27/22 16:54	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: VP-4 2'-4'

Date Collected: 01/13/22 12:00
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-7

Matrix: Solid
Percent Solids: 83.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND		5.8	3.2	mg/Kg	☼	01/23/22 04:00	01/23/22 23:06	1
Chromium, trivalent	**110**		6.0	0.44	mg/Kg	☼		01/23/22 03:12	1
Percent Solids	**83.7**		0.01	0.01	%			01/21/22 09:10	1
Percent Moisture	**16.3**		0.01	0.01	%			01/21/22 09:10	1

Surrogate Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(67-130)	(76-127)	(77-127)
400-214145-1	MW-1 2'-4'	105	95	106
400-214145-2	MW-2 8'-10'	103	96	106
400-214145-3	MW-3 4'-6'	100	98	104
400-214145-4	VP-1 4'-6'	104	96	105
400-214145-5	VP-2 0'-2'	102	95	109
400-214145-6	VP-3 4'-6'	103	96	106
400-214145-7	VP-4 2'-4'	103	95	106
LCS 400-564079/1-A	Lab Control Sample	97	91	112
MB 400-564079/2-A	Method Blank	100	94	106

Surrogate Legend

BFB = 4-Bromofluorobenzene
TOL = Toluene-d8
DBFM = Dibromofluoromethane

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)				
		TBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(10-150)	(25-128)	(15-136)	(29-130)	(24-146)
400-214145-1	MW-1 2'-4'	72	57	58	59	86
400-214145-2	MW-2 8'-10'	67	62	61	63	93
400-214145-3	MW-3 4'-6'	81	61	62	63	95
400-214145-4	VP-1 4'-6'	102	51	53	49	109
400-214145-5	VP-2 0'-2'	102	52	49	52	106
400-214145-6	VP-3 4'-6'	105	56	59	55	115
400-214145-7	VP-4 2'-4'	101	53	58	55	99
LCS 400-563906/2-A	Lab Control Sample	93	56	57	61	92
MB 400-563906/1-A	Method Blank	78	61	63	61	85

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

QC Association Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

GC/MS VOA

Analysis Batch: 564059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214145-1	MW-1 2'-4'	Total/NA	Solid	8260B	564079
400-214145-2	MW-2 8'-10'	Total/NA	Solid	8260B	564079
400-214145-3	MW-3 4'-6'	Total/NA	Solid	8260B	564079
400-214145-4	VP-1 4'-6'	Total/NA	Solid	8260B	564079
400-214145-5	VP-2 0'-2'	Total/NA	Solid	8260B	564079
400-214145-6	VP-3 4'-6'	Total/NA	Solid	8260B	564079
400-214145-7	VP-4 2'-4'	Total/NA	Solid	8260B	564079
MB 400-564079/2-A	Method Blank	Total/NA	Solid	8260B	564079
LCS 400-564079/1-A	Lab Control Sample	Total/NA	Solid	8260B	564079

Prep Batch: 564079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214145-1	MW-1 2'-4'	Total/NA	Solid	5035	
400-214145-2	MW-2 8'-10'	Total/NA	Solid	5035	
400-214145-3	MW-3 4'-6'	Total/NA	Solid	5035	
400-214145-4	VP-1 4'-6'	Total/NA	Solid	5035	
400-214145-5	VP-2 0'-2'	Total/NA	Solid	5035	
400-214145-6	VP-3 4'-6'	Total/NA	Solid	5035	
400-214145-7	VP-4 2'-4'	Total/NA	Solid	5035	
MB 400-564079/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-564079/1-A	Lab Control Sample	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 563906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214145-1	MW-1 2'-4'	Total/NA	Solid	3546	
400-214145-2	MW-2 8'-10'	Total/NA	Solid	3546	
400-214145-3	MW-3 4'-6'	Total/NA	Solid	3546	
400-214145-4	VP-1 4'-6'	Total/NA	Solid	3546	
400-214145-5	VP-2 0'-2'	Total/NA	Solid	3546	
400-214145-6	VP-3 4'-6'	Total/NA	Solid	3546	
400-214145-7	VP-4 2'-4'	Total/NA	Solid	3546	
MB 400-563906/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-563906/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 563936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214145-1	MW-1 2'-4'	Total/NA	Solid	8270C	563906
400-214145-2	MW-2 8'-10'	Total/NA	Solid	8270C	563906
400-214145-3	MW-3 4'-6'	Total/NA	Solid	8270C	563906
MB 400-563906/1-A	Method Blank	Total/NA	Solid	8270C	563906
LCS 400-563906/2-A	Lab Control Sample	Total/NA	Solid	8270C	563906

Analysis Batch: 563976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214145-4	VP-1 4'-6'	Total/NA	Solid	8270C	563906
400-214145-5	VP-2 0'-2'	Total/NA	Solid	8270C	563906
400-214145-6	VP-3 4'-6'	Total/NA	Solid	8270C	563906
400-214145-7	VP-4 2'-4'	Total/NA	Solid	8270C	563906

QC Association Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Metals

Prep Batch: 563861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214145-1	MW-1 2'-4'	Total/NA	Solid	3050B	
400-214145-2	MW-2 8'-10'	Total/NA	Solid	3050B	
400-214145-3	MW-3 4'-6'	Total/NA	Solid	3050B	
400-214145-4	VP-1 4'-6'	Total/NA	Solid	3050B	
400-214145-5	VP-2 0'-2'	Total/NA	Solid	3050B	
400-214145-6	VP-3 4'-6'	Total/NA	Solid	3050B	
400-214145-7	VP-4 2'-4'	Total/NA	Solid	3050B	
MB 400-563861/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 400-563861/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 564115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214145-1	MW-1 2'-4'	Total/NA	Solid	6010B	563861
400-214145-2	MW-2 8'-10'	Total/NA	Solid	6010B	563861
400-214145-3	MW-3 4'-6'	Total/NA	Solid	6010B	563861
400-214145-4	VP-1 4'-6'	Total/NA	Solid	6010B	563861
400-214145-5	VP-2 0'-2'	Total/NA	Solid	6010B	563861
400-214145-6	VP-3 4'-6'	Total/NA	Solid	6010B	563861
400-214145-7	VP-4 2'-4'	Total/NA	Solid	6010B	563861
MB 400-563861/1-A	Method Blank	Total/NA	Solid	6010B	563861
LCS 400-563861/2-A	Lab Control Sample	Total/NA	Solid	6010B	563861

Analysis Batch: 564247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214145-1	MW-1 2'-4'	Total/NA	Solid	6010B	563861
400-214145-2	MW-2 8'-10'	Total/NA	Solid	6010B	563861
400-214145-3	MW-3 4'-6'	Total/NA	Solid	6010B	563861
400-214145-4	VP-1 4'-6'	Total/NA	Solid	6010B	563861
400-214145-5	VP-2 0'-2'	Total/NA	Solid	6010B	563861
400-214145-6	VP-3 4'-6'	Total/NA	Solid	6010B	563861
400-214145-7	VP-4 2'-4'	Total/NA	Solid	6010B	563861

Analysis Batch: 564368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214145-1	MW-1 2'-4'	Total/NA	Solid	6010B	563861
400-214145-2	MW-2 8'-10'	Total/NA	Solid	6010B	563861
400-214145-3	MW-3 4'-6'	Total/NA	Solid	6010B	563861
400-214145-4	VP-1 4'-6'	Total/NA	Solid	6010B	563861
400-214145-5	VP-2 0'-2'	Total/NA	Solid	6010B	563861
400-214145-6	VP-3 4'-6'	Total/NA	Solid	6010B	563861
400-214145-7	VP-4 2'-4'	Total/NA	Solid	6010B	563861

Prep Batch: 564408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214145-1	MW-1 2'-4'	Total/NA	Solid	7471B	
400-214145-2	MW-2 8'-10'	Total/NA	Solid	7471B	
400-214145-3	MW-3 4'-6'	Total/NA	Solid	7471B	
400-214145-4	VP-1 4'-6'	Total/NA	Solid	7471B	
400-214145-5	VP-2 0'-2'	Total/NA	Solid	7471B	
400-214145-6	VP-3 4'-6'	Total/NA	Solid	7471B	
400-214145-7	VP-4 2'-4'	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 564408 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-564408/14-A	Method Blank	Total/NA	Solid	7471B	
LCS 400-564408/15-A	Lab Control Sample	Total/NA	Solid	7471B	
400-214145-2 MS	MW-2 8'-10'	Total/NA	Solid	7471B	
400-214145-2 MSD	MW-2 8'-10'	Total/NA	Solid	7471B	

Analysis Batch: 564729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214145-1	MW-1 2'-4'	Total/NA	Solid	7471B	564408
400-214145-2	MW-2 8'-10'	Total/NA	Solid	7471B	564408
400-214145-3	MW-3 4'-6'	Total/NA	Solid	7471B	564408
400-214145-4	VP-1 4'-6'	Total/NA	Solid	7471B	564408
400-214145-5	VP-2 0'-2'	Total/NA	Solid	7471B	564408
400-214145-6	VP-3 4'-6'	Total/NA	Solid	7471B	564408
400-214145-7	VP-4 2'-4'	Total/NA	Solid	7471B	564408
MB 400-564408/14-A	Method Blank	Total/NA	Solid	7471B	564408
LCS 400-564408/15-A	Lab Control Sample	Total/NA	Solid	7471B	564408
400-214145-2 MS	MW-2 8'-10'	Total/NA	Solid	7471B	564408
400-214145-2 MSD	MW-2 8'-10'	Total/NA	Solid	7471B	564408

Prep Batch: 564757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214145-1	MW-1 2'-4'	Total/NA	Solid	3050B	
MB 400-564757/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 400-564757/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 564975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214145-1	MW-1 2'-4'	Total/NA	Solid	6010B	564757
MB 400-564757/1-A	Method Blank	Total/NA	Solid	6010B	564757
LCS 400-564757/2-A	Lab Control Sample	Total/NA	Solid	6010B	564757

General Chemistry

Analysis Batch: 563907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214145-1	MW-1 2'-4'	Total/NA	Solid	Moisture	
400-214145-3	MW-3 4'-6'	Total/NA	Solid	Moisture	
400-214145-4	VP-1 4'-6'	Total/NA	Solid	Moisture	
400-214145-5	VP-2 0'-2'	Total/NA	Solid	Moisture	
400-214145-6	VP-3 4'-6'	Total/NA	Solid	Moisture	
400-214145-7	VP-4 2'-4'	Total/NA	Solid	Moisture	
400-214145-1 DU	MW-1 2'-4'	Total/NA	Solid	Moisture	

Prep Batch: 564037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214145-1	MW-1 2'-4'	Total/NA	Solid	3060A	
400-214145-2	MW-2 8'-10'	Total/NA	Solid	3060A	
400-214145-3	MW-3 4'-6'	Total/NA	Solid	3060A	
400-214145-4	VP-1 4'-6'	Total/NA	Solid	3060A	
400-214145-5	VP-2 0'-2'	Total/NA	Solid	3060A	
400-214145-6	VP-3 4'-6'	Total/NA	Solid	3060A	

General Chemistry (Continued)

Prep Batch: 564037 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214145-7	VP-4 2'-4'	Total/NA	Solid	3060A	
MB 400-564037/1-A	Method Blank	Total/NA	Solid	3060A	
LCS 400-564037/2-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 400-564037/4-A	Lab Control Sample	Total/NA	Solid	3060A	
400-214145-1 MS	MW-1 2'-4'	Total/NA	Solid	3060A	
400-214145-1 MSD	MW-1 2'-4'	Total/NA	Solid	3060A	

Analysis Batch: 564038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214145-1	MW-1 2'-4'	Total/NA	Solid	7196A	
400-214145-2	MW-2 8'-10'	Total/NA	Solid	7196A	
400-214145-3	MW-3 4'-6'	Total/NA	Solid	7196A	
400-214145-4	VP-1 4'-6'	Total/NA	Solid	7196A	
400-214145-5	VP-2 0'-2'	Total/NA	Solid	7196A	
400-214145-6	VP-3 4'-6'	Total/NA	Solid	7196A	
400-214145-7	VP-4 2'-4'	Total/NA	Solid	7196A	

Analysis Batch: 564052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214145-1	MW-1 2'-4'	Total/NA	Solid	7196A	564037
400-214145-2	MW-2 8'-10'	Total/NA	Solid	7196A	564037
400-214145-3	MW-3 4'-6'	Total/NA	Solid	7196A	564037
400-214145-4	VP-1 4'-6'	Total/NA	Solid	7196A	564037
400-214145-5	VP-2 0'-2'	Total/NA	Solid	7196A	564037
400-214145-6	VP-3 4'-6'	Total/NA	Solid	7196A	564037
400-214145-7	VP-4 2'-4'	Total/NA	Solid	7196A	564037
MB 400-564037/1-A	Method Blank	Total/NA	Solid	7196A	564037
LCS 400-564037/2-A	Lab Control Sample	Total/NA	Solid	7196A	564037
LCSSRM 400-564037/4-A	Lab Control Sample	Total/NA	Solid	7196A	564037
MRL 400-564052/3	Lab Control Sample	Total/NA	Solid	7196A	
400-214145-1 MS	MW-1 2'-4'	Total/NA	Solid	7196A	564037
400-214145-1 MSD	MW-1 2'-4'	Total/NA	Solid	7196A	564037

Analysis Batch: 564077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214145-2	MW-2 8'-10'	Total/NA	Solid	Moisture	

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-564079/2-A
Matrix: Solid
Analysis Batch: 564059

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564079

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0050	0.0011	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
1,1,1-Trichloroethane	ND		0.0050	0.0011	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
1,1,2,2-Tetrachloroethane	ND		0.0050	0.00082	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
1,1,2-Trichloroethane	ND		0.0050	0.00078	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
1,1-Dichloroethane	ND		0.0050	0.00083	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
1,1-Dichloroethene	ND		0.0050	0.00085	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
1,1-Dichloropropene	ND		0.0050	0.00083	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
1,2,3-Trichlorobenzene	ND		0.0050	0.0011	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
1,2,3-Trichloropropane	ND		0.0050	0.00080	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
1,2,4-Trichlorobenzene	ND		0.0050	0.00092	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0010	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0033	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
1,2-Dibromoethane	ND		0.0050	0.0010	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
1,2-Dichlorobenzene	ND		0.0050	0.00071	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
1,2-Dichloroethane	ND		0.0050	0.00082	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
1,2-Dichloroethene, Total	ND		0.0050	0.0014	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
1,2-Dichloropropane	ND		0.0050	0.00076	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
1,3,5-Trimethylbenzene	ND		0.0050	0.00083	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
1,3-Dichlorobenzene	ND		0.0050	0.00095	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
1,3-Dichloropropane	ND		0.0050	0.0010	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
1,4-Dichlorobenzene	ND		0.0050	0.00086	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
1,4-Dioxane	ND		0.50	0.050	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
2,2-Dichloropropane	ND		0.0050	0.0011	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
2-Butanone	ND		0.025	0.0060	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
2-Chlorotoluene	ND		0.0050	0.00081	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
2-Hexanone	ND		0.025	0.0050	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
4-Chlorotoluene	ND		0.0050	0.00098	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
4-Isopropyltoluene	ND		0.0050	0.0010	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
4-Methyl-2-pentanone	ND		0.025	0.0050	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Acetone	ND		0.025	0.012	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Benzene	ND		0.0050	0.00067	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Bromobenzene	ND		0.0050	0.0013	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Bromochloromethane	ND		0.0050	0.00081	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Bromodichloromethane	ND		0.0050	0.00092	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Bromoform	ND		0.0050	0.0013	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Bromomethane	ND		0.0050	0.0025	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Carbon disulfide	ND		0.0050	0.00066	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Carbon tetrachloride	ND		0.0050	0.0017	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Chlorobenzene	ND		0.0050	0.00052	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Chloroethane	ND		0.0050	0.0012	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Chloroform	ND		0.0050	0.00086	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Chloromethane	ND		0.0050	0.0010	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
cis-1,2-Dichloroethene	ND		0.0050	0.00076	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
cis-1,3-Dichloropropene	ND		0.0050	0.0012	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Cyclohexane	ND		0.0050	0.00094	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Dibromochloromethane	ND		0.0050	0.0012	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Dibromomethane	ND		0.0050	0.00083	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Dichlorodifluoromethane	ND		0.0050	0.0013	mg/Kg		01/24/22 07:22	01/24/22 10:24	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-564079/2-A
Matrix: Solid
Analysis Batch: 564059

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564079

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diisopropyl ether	ND		0.0050	0.00055	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Ethyl tert-butyl ether	ND		0.0050	0.00070	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Ethylbenzene	ND		0.0050	0.00061	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Freon TF	ND		0.0050	0.00084	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Hexachlorobutadiene	ND		0.0050	0.0025	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Isobutyl alcohol	ND		0.025	0.023	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Isopropylbenzene	ND		0.0050	0.00068	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
m&p-Xylene	ND		0.0050	0.0013	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Methyl acetate	ND		0.0050	0.0046	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Methyl iodide	ND		0.0050	0.0034	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Methyl t-butyl ether	ND		0.0050	0.0010	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Methylcyclohexane	ND		0.0050	0.00059	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Methylene Chloride	ND		0.015	0.010	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Naphthalene	ND		0.0050	0.0020	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
n-Butylbenzene	ND		0.0050	0.00096	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
n-Propylbenzene	ND		0.0050	0.00090	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
o-Xylene	ND		0.0050	0.0010	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
sec-Butylbenzene	ND		0.0050	0.00095	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Styrene	ND		0.0050	0.0010	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Tert-amyl methyl ether	ND		0.0050	0.0010	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
tert-Butyl alcohol (TBA)	ND		0.010	0.0080	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
tert-Butylbenzene	ND		0.0050	0.0011	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Tetrachloroethene	ND		0.0050	0.00056	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Tetrahydrofuran	ND		0.010	0.0050	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Toluene	ND		0.0050	0.0010	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
trans-1,2-Dichloroethene	ND		0.0050	0.00096	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
trans-1,3-Dichloropropene	ND		0.0050	0.0011	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Trichloroethene	ND		0.0050	0.0010	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Trichlorofluoromethane	ND		0.0050	0.00086	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Vinyl acetate	ND		0.025	0.0019	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Vinyl chloride	ND		0.0050	0.00080	mg/Kg		01/24/22 07:22	01/24/22 10:24	1
Xylenes, Total	ND		0.010	0.0019	mg/Kg		01/24/22 07:22	01/24/22 10:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*67 - 130*	*01/24/22 07:22*	*01/24/22 10:24*	*1*
Toluene-d8	*94*		*76 - 127*	*01/24/22 07:22*	*01/24/22 10:24*	*1*
Dibromofluoromethane	*106*		*77 - 127*	*01/24/22 07:22*	*01/24/22 10:24*	*1*

Lab Sample ID: LCS 400-564079/1-A
Matrix: Solid
Analysis Batch: 564059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564079

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.0500	0.0483		mg/Kg		97	65 - 130
1,1,1-Trichloroethane	0.0500	0.0480		mg/Kg		96	63 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.0569		mg/Kg		114	60 - 131
1,1,2-Trichloroethane	0.0500	0.0524		mg/Kg		105	65 - 130
1,1-Dichloroethane	0.0500	0.0458		mg/Kg		92	59 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-564079/1-A
Matrix: Solid
Analysis Batch: 564059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564079

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0500	0.0430		mg/Kg		86	55 - 137
1,1-Dichloropropene	0.0500	0.0463		mg/Kg		93	65 - 130
1,2,3-Trichlorobenzene	0.0500	0.0566		mg/Kg		113	58 - 135
1,2,3-Trichloropropane	0.0500	0.0614		mg/Kg		123	60 - 130
1,2,4-Trichlorobenzene	0.0500	0.0534		mg/Kg		107	56 - 138
1,2,4-Trimethylbenzene	0.0500	0.0437		mg/Kg		87	66 - 130
1,2-Dibromo-3-Chloropropane	0.0500	0.0631		mg/Kg		126	49 - 130
1,2-Dibromoethane	0.0500	0.0575		mg/Kg		115	67 - 130
1,2-Dichlorobenzene	0.0500	0.0493		mg/Kg		99	64 - 130
1,2-Dichloroethane	0.0500	0.0488		mg/Kg		98	62 - 130
1,2-Dichloropropane	0.0500	0.0456		mg/Kg		91	64 - 130
1,3,5-Trimethylbenzene	0.0500	0.0447		mg/Kg		89	67 - 130
1,3-Dichlorobenzene	0.0500	0.0477		mg/Kg		95	66 - 130
1,3-Dichloropropane	0.0500	0.0515		mg/Kg		103	67 - 130
1,4-Dichlorobenzene	0.0500	0.0480		mg/Kg		96	65 - 130
1,4-Dioxane	1.00	1.45		mg/Kg		145	41 - 148
2,2-Dichloropropane	0.0500	0.0400		mg/Kg		80	51 - 132
2-Butanone	0.200	0.298	*+	mg/Kg		149	55 - 130
2-Chlorotoluene	0.0500	0.0426		mg/Kg		85	67 - 130
2-Hexanone	0.200	0.254		mg/Kg		127	57 - 131
4-Chlorotoluene	0.0500	0.0448		mg/Kg		90	66 - 130
4-Isopropyltoluene	0.0500	0.0437		mg/Kg		87	68 - 130
4-Methyl-2-pentanone	0.200	0.267	*+	mg/Kg		134	58 - 130
Acetone	0.200	0.281		mg/Kg		140	48 - 160
Benzene	0.0500	0.0473		mg/Kg		95	65 - 130
Bromobenzene	0.0500	0.0497		mg/Kg		99	65 - 130
Bromochloromethane	0.0500	0.0581		mg/Kg		116	65 - 130
Bromodichloromethane	0.0500	0.0507		mg/Kg		101	61 - 130
Bromoform	0.0500	0.0558		mg/Kg		112	52 - 136
Bromomethane	0.0500	0.0371		mg/Kg		74	12 - 160
Carbon disulfide	0.0500	0.0440		mg/Kg		88	46 - 141
Carbon tetrachloride	0.0500	0.0487		mg/Kg		97	60 - 130
Chlorobenzene	0.0500	0.0480		mg/Kg		96	70 - 130
Chloroethane	0.0500	0.0406		mg/Kg		81	55 - 134
Chloroform	0.0500	0.0493		mg/Kg		99	62 - 130
Chloromethane	0.0500	0.0382		mg/Kg		76	49 - 136
cis-1,2-Dichloroethene	0.0500	0.0473		mg/Kg		95	53 - 135
cis-1,3-Dichloropropene	0.0500	0.0511		mg/Kg		102	61 - 130
Cyclohexane	0.0500	0.0483		mg/Kg		97	61 - 130
Dibromochloromethane	0.0500	0.0544		mg/Kg		109	58 - 132
Dibromomethane	0.0500	0.0584		mg/Kg		117	65 - 130
Dichlorodifluoromethane	0.0500	0.0370		mg/Kg		74	34 - 143
Diisopropyl ether	0.0500	0.0452		mg/Kg		90	62 - 130
Ethyl tert-butyl ether	0.0500	0.0535		mg/Kg		107	60 - 130
Ethylbenzene	0.0500	0.0448		mg/Kg		90	70 - 130
Freon TF	0.0500	0.0410		mg/Kg		82	47 - 143
Hexachlorobutadiene	0.0500	0.0514		mg/Kg		103	62 - 133
Isobutyl alcohol	1.25	1.75	*+	mg/Kg		140	44 - 136
Isopropylbenzene	0.0500	0.0463		mg/Kg		93	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-564079/1-A
Matrix: Solid
Analysis Batch: 564059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564079

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m&p-Xylene	0.0500	0.0445		mg/Kg		89	70 - 130
Methyl acetate	0.100	0.132		mg/Kg		132	49 - 139
Methyl iodide	0.0500	0.0479		mg/Kg		96	12 - 160
Methyl t-butyl ether	0.0500	0.0574		mg/Kg		115	63 - 130
Methylcyclohexane	0.0500	0.0459		mg/Kg		92	64 - 130
Methylene Chloride	0.0500	0.0502		mg/Kg		100	57 - 132
Naphthalene	0.0500	0.0614		mg/Kg		123	45 - 144
n-Butylbenzene	0.0500	0.0419		mg/Kg		84	66 - 130
n-Propylbenzene	0.0500	0.0427		mg/Kg		85	67 - 130
o-Xylene	0.0500	0.0436		mg/Kg		87	70 - 130
sec-Butylbenzene	0.0500	0.0437		mg/Kg		87	67 - 130
Styrene	0.0500	0.0463		mg/Kg		93	68 - 130
Tert-amyl methyl ether	0.0500	0.0518		mg/Kg		104	50 - 132
tert-Butyl alcohol (TBA)	0.500	0.781	*+	mg/Kg		156	33 - 130
tert-Butylbenzene	0.0500	0.0416		mg/Kg		83	67 - 130
Tetrachloroethene	0.0500	0.0484		mg/Kg		97	67 - 130
Tetrahydrofuran	0.100	0.115		mg/Kg		115	52 - 132
Toluene	0.0500	0.0444		mg/Kg		89	70 - 130
trans-1,2-Dichloroethene	0.0500	0.0489		mg/Kg		98	58 - 134
trans-1,3-Dichloropropene	0.0500	0.0481		mg/Kg		96	60 - 130
Trichloroethene	0.0500	0.0524		mg/Kg		105	65 - 130
Trichlorofluoromethane	0.0500	0.0440		mg/Kg		88	61 - 136
Vinyl acetate	0.100	0.120		mg/Kg		120	24 - 160
Vinyl chloride	0.0500	0.0400		mg/Kg		80	52 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*67 - 130*
Toluene-d8	*91*		*76 - 127*
Dibromofluoromethane	*112*		*77 - 127*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-563906/1-A
Matrix: Solid
Analysis Batch: 563936

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 563906

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
1,2,4,5-Tetrachlorobenzene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
1,2,4-Trichlorobenzene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
1,2-Dichlorobenzene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
1,3-Dichlorobenzene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
1,4-Dichlorobenzene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
1-Methylnaphthalene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
2,2'-oxybis[1-chloropropane]	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
2,3,4,6-Tetrachlorophenol	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
2,4,5-Trichlorophenol	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
2,4,6-Trichlorophenol	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
2,4-Dichlorophenol	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-563906/1-A
Matrix: Solid
Analysis Batch: 563936

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 563906

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
2,4-Dinitrophenol	ND		0.99	0.29	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
2,4-Dinitrotoluene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
2,6-Dinitrotoluene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
2-Chloronaphthalene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
2-Chlorophenol	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
2-Methylnaphthalene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
2-Methylphenol	ND		0.33	0.080	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
2-Nitroaniline	ND		0.33	0.070	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
2-Nitrophenol	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
3 & 4 Methylphenol	ND		0.66	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
3,3'-Dichlorobenzidine	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
3-Nitroaniline	ND		0.33	0.078	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
4,6-Dinitro-2-methylphenol	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
4-Bromophenyl phenyl ether	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
4-Chloro-3-methylphenol	ND		0.33	0.081	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
4-Chloroaniline	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
4-Chlorophenyl phenyl ether	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
4-Nitroaniline	ND		0.33	0.11	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
4-Nitrophenol	ND		0.33	0.11	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Acenaphthene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Acenaphthylene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Acetophenone	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Aniline	ND		0.33	0.043	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Anthracene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Atrazine	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Azobenzene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Benzaldehyde	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Benzo[a]anthracene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Benzo[a]pyrene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Benzo[b]fluoranthene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Benzo[g,h,i]perylene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Benzo[k]fluoranthene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Benzoic acid	ND		0.99	0.35	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Benzyl alcohol	ND		0.33	0.11	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Bis(2-chloroethoxy)methane	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Bis(2-chloroethyl)ether	ND		0.33	0.092	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Bis(2-ethylhexyl) phthalate	ND		0.33	0.081	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Butyl benzyl phthalate	ND		0.33	0.071	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Caprolactam	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Carbazole	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Chrysene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Dibenz(a,h)anthracene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Dibenzofuran	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Diethyl phthalate	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Dimethyl phthalate	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Di-n-butyl phthalate	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Di-n-octyl phthalate	ND		0.33	0.12	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Fluoranthene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-563906/1-A
Matrix: Solid
Analysis Batch: 563936

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 563906

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Hexachlorobenzene	ND		0.33	0.10	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Hexachlorobutadiene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Hexachlorocyclopentadiene	ND		0.33	0.066	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Hexachloroethane	ND		0.33	0.031	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Indeno[1,2,3-cd]pyrene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Isophorone	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Naphthalene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Nitrobenzene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
N-Nitrosodimethylamine	ND		0.33	0.066	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
N-Nitrosodi-n-propylamine	ND		0.33	0.038	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
N-Nitrosodiphenylamine	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Pentachlorophenol	ND		0.66	0.066	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Phenanthrene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Phenol	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Pyrene	ND		0.33	0.033	mg/Kg		01/21/22 09:06	01/21/22 19:26	1
Pyridine	ND		0.33	0.15	mg/Kg		01/21/22 09:06	01/21/22 19:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*78*		*10 - 150*	*01/21/22 09:06*	*01/21/22 19:26*	*1*
2-Fluorophenol (Surr)	*61*		*25 - 128*	*01/21/22 09:06*	*01/21/22 19:26*	*1*
Nitrobenzene-d5 (Surr)	*63*		*15 - 136*	*01/21/22 09:06*	*01/21/22 19:26*	*1*
Phenol-d5 (Surr)	*61*		*29 - 130*	*01/21/22 09:06*	*01/21/22 19:26*	*1*
Terphenyl-d14 (Surr)	*85*		*24 - 146*	*01/21/22 09:06*	*01/21/22 19:26*	*1*

Lab Sample ID: LCS 400-563906/2-A
Matrix: Solid
Analysis Batch: 563936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 563906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	2.01	1.23		mg/Kg		61	56 - 120
1,2,4,5-Tetrachlorobenzene	2.01	1.33		mg/Kg		66	49 - 120
1,2,4-Trichlorobenzene	2.01	1.14		mg/Kg		57	48 - 120
1,2-Dichlorobenzene	2.01	1.23		mg/Kg		61	49 - 120
1,3-Dichlorobenzene	2.01	1.18		mg/Kg		59	48 - 120
1,4-Dichlorobenzene	2.01	1.35		mg/Kg		67	49 - 120
1-Methylnaphthalene	2.01	1.14		mg/Kg		57	40 - 120
2,2'-oxybis[1-chloropropane]	2.01	1.35		mg/Kg		67	34 - 120
2,3,4,6-Tetrachlorophenol	2.01	2.03		mg/Kg		101	50 - 143
2,4,5-Trichlorophenol	2.01	1.51		mg/Kg		75	53 - 133
2,4,6-Trichlorophenol	2.01	1.45		mg/Kg		72	51 - 125
2,4-Dichlorophenol	2.01	1.27		mg/Kg		63	56 - 120
2,4-Dimethylphenol	2.01	1.35		mg/Kg		67	54 - 120
2,4-Dinitrophenol	4.01	4.16		mg/Kg		104	10 - 138
2,4-Dinitrotoluene	2.01	1.38		mg/Kg		69	59 - 133
2,6-Dinitrotoluene	2.01	1.18		mg/Kg		59	57 - 123
2-Chloronaphthalene	2.01	1.22		mg/Kg		61	55 - 120
2-Chlorophenol	2.01	1.35		mg/Kg		67	52 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-563906/2-A
Matrix: Solid
Analysis Batch: 563936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 563906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	2.01	1.08		mg/Kg		54	40 - 120
2-Methylphenol	2.01	1.35		mg/Kg		67	51 - 123
2-Nitroaniline	2.01	1.44		mg/Kg		72	55 - 129
2-Nitrophenol	2.01	1.07		mg/Kg		53	53 - 120
3 & 4 Methylphenol	2.01	1.38		mg/Kg		69	47 - 123
3,3'-Dichlorobenzidine	3.01	2.51		mg/Kg		83	42 - 120
3-Nitroaniline	2.01	1.38		mg/Kg		69	45 - 120
4,6-Dinitro-2-methylphenol	4.01	4.33		mg/Kg		108	35 - 135
4-Bromophenyl phenyl ether	2.01	1.53		mg/Kg		76	51 - 120
4-Chloro-3-methylphenol	2.01	1.35		mg/Kg		68	57 - 124
4-Chloroaniline	2.01	0.912		mg/Kg		45	34 - 120
4-Chlorophenyl phenyl ether	2.01	1.39		mg/Kg		70	56 - 120
4-Nitroaniline	2.01	1.39		mg/Kg		70	52 - 126
4-Nitrophenol	4.01	4.90		mg/Kg		122	38 - 133
Acenaphthene	2.01	1.35		mg/Kg		67	50 - 120
Acenaphthylene	2.01	1.16		mg/Kg		58	50 - 120
Acetophenone	2.01	1.12		mg/Kg		56	52 - 120
Aniline	2.01	0.904		mg/Kg		45	36 - 120
Anthracene	2.01	1.53		mg/Kg		77	52 - 120
Atrazine	2.00	2.09		mg/Kg		104	44 - 120
Azobenzene	2.01	1.41		mg/Kg		70	50 - 120
Benzaldehyde	2.00	1.14		mg/Kg		57	20 - 120
Benzo[a]anthracene	2.01	1.60		mg/Kg		80	55 - 120
Benzo[a]pyrene	2.01	1.57		mg/Kg		78	54 - 120
Benzo[b]fluoranthene	2.01	1.77		mg/Kg		88	55 - 120
Benzo[g,h,i]perylene	2.01	2.26		mg/Kg		113	45 - 120
Benzo[k]fluoranthene	2.01	1.78		mg/Kg		89	52 - 120
Benzoic acid	8.29	3.30		mg/Kg		40	10 - 139
Benzyl alcohol	2.01	1.36		mg/Kg		68	10 - 127
Bis(2-chloroethoxy)methane	2.01	0.989	*-	mg/Kg		49	52 - 120
Bis(2-chloroethyl)ether	2.01	1.17		mg/Kg		58	28 - 120
Bis(2-ethylhexyl) phthalate	2.01	1.70		mg/Kg		85	58 - 158
Butyl benzyl phthalate	2.01	1.61		mg/Kg		80	58 - 126
Caprolactam	2.00	1.18		mg/Kg		59	53 - 127
Carbazole	2.01	1.59		mg/Kg		79	61 - 132
Chrysene	2.01	1.57		mg/Kg		78	54 - 120
Dibenz(a,h)anthracene	2.01	2.49	*+	mg/Kg		124	49 - 120
Dibenzofuran	2.01	1.37		mg/Kg		68	58 - 120
Diethyl phthalate	2.01	1.81		mg/Kg		90	56 - 128
Dimethyl phthalate	2.01	1.48		mg/Kg		74	58 - 120
Di-n-butyl phthalate	2.01	1.79		mg/Kg		89	64 - 122
Di-n-octyl phthalate	2.01	1.74		mg/Kg		87	57 - 137
Fluoranthene	2.01	1.83		mg/Kg		92	49 - 120
Fluorene	2.01	1.65		mg/Kg		82	47 - 120
Hexachlorobenzene	2.01	2.09		mg/Kg		104	49 - 127
Hexachlorobutadiene	2.01	1.43		mg/Kg		71	43 - 120
Hexachlorocyclopentadiene	2.01	1.38		mg/Kg		69	10 - 140
Hexachloroethane	2.01	1.26		mg/Kg		63	45 - 120
Indeno[1,2,3-cd]pyrene	2.01	2.41		mg/Kg		120	47 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-563906/2-A
Matrix: Solid
Analysis Batch: 563936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 563906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isophorone	2.01	1.13		mg/Kg		57	50 - 120
Naphthalene	2.01	1.16		mg/Kg		58	41 - 120
Nitrobenzene	2.01	1.11		mg/Kg		56	50 - 120
N-Nitrosodimethylamine	2.01	1.67		mg/Kg		83	35 - 120
N-Nitrosodi-n-propylamine	2.01	1.42		mg/Kg		71	48 - 120
N-Nitrosodiphenylamine	1.99	1.28		mg/Kg		64	54 - 120
Pentachlorophenol	4.01	3.94		mg/Kg		98	32 - 131
Phenanthrene	2.01	1.59		mg/Kg		80	50 - 120
Phenol	2.01	1.31		mg/Kg		65	51 - 120
Pyrene	2.01	1.57		mg/Kg		78	54 - 120
Pyridine	4.01	1.37		mg/Kg		34	29 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*93*		*10 - 150*
2-Fluorophenol (Surr)	*56*		*25 - 128*
Nitrobenzene-d5 (Surr)	*57*		*15 - 136*
Phenol-d5 (Surr)	*61*		*29 - 130*
Terphenyl-d14 (Surr)	*92*		*24 - 146*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 400-563861/1-A
Matrix: Solid
Analysis Batch: 564115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 563861

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.0	0.88	mg/Kg		01/20/22 16:25	01/21/22 18:16	1
Arsenic	ND		1.0	0.57	mg/Kg		01/20/22 16:25	01/21/22 18:16	1
Barium	ND		1.0	0.17	mg/Kg		01/20/22 16:25	01/21/22 18:16	1
Beryllium	ND		0.30	0.070	mg/Kg		01/20/22 16:25	01/21/22 18:16	1
Cadmium	ND		0.50	0.088	mg/Kg		01/20/22 16:25	01/21/22 18:16	1
Chromium	ND		1.0	0.31	mg/Kg		01/20/22 16:25	01/21/22 18:16	1
Cobalt	ND		1.0	0.19	mg/Kg		01/20/22 16:25	01/21/22 18:16	1
Copper	ND		2.0	0.75	mg/Kg		01/20/22 16:25	01/21/22 18:16	1
Lead	ND		1.0	0.22	mg/Kg		01/20/22 16:25	01/21/22 18:16	1
Molybdenum	ND		1.0	0.29	mg/Kg		01/20/22 16:25	01/21/22 18:16	1
Nickel	ND		0.50	0.14	mg/Kg		01/20/22 16:25	01/21/22 18:16	1
Selenium	ND		2.0	0.87	mg/Kg		01/20/22 16:25	01/21/22 18:16	1
Silver	ND		0.50	0.33	mg/Kg		01/20/22 16:25	01/21/22 18:16	1
Thallium	ND		1.0	0.49	mg/Kg		01/20/22 16:25	01/21/22 18:16	1
Vanadium	ND		2.0	0.84	mg/Kg		01/20/22 16:25	01/21/22 18:16	1
Zinc	ND		2.0	0.72	mg/Kg		01/20/22 16:25	01/21/22 18:16	1

Lab Sample ID: LCS 400-563861/2-A
Matrix: Solid
Analysis Batch: 564115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 563861

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	101	86.8		mg/Kg		86	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 400-563861/2-A
Matrix: Solid
Analysis Batch: 564115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 563861

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	101	93.0		mg/Kg		93	80 - 120
Barium	101	101		mg/Kg		100	80 - 120
Beryllium	50.3	49.3		mg/Kg		98	80 - 120
Cadmium	50.3	47.6		mg/Kg		95	80 - 120
Chromium	101	99.6		mg/Kg		99	80 - 120
Cobalt	101	98.4		mg/Kg		98	80 - 120
Copper	101	102		mg/Kg		101	80 - 120
Lead	101	96.2		mg/Kg		96	80 - 120
Molybdenum	101	95.0		mg/Kg		94	80 - 120
Nickel	101	97.2		mg/Kg		97	80 - 120
Selenium	101	89.0		mg/Kg		89	80 - 120
Silver	50.3	46.3		mg/Kg		92	80 - 120
Thallium	101	93.8		mg/Kg		93	80 - 120
Vanadium	101	95.3		mg/Kg		95	80 - 120
Zinc	101	95.6		mg/Kg		95	80 - 120

Lab Sample ID: MB 400-564757/1-A
Matrix: Solid
Analysis Batch: 564975

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564757

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		1.0	0.49	mg/Kg		01/30/22 14:30	01/31/22 15:09	1

Lab Sample ID: LCS 400-564757/2-A
Matrix: Solid
Analysis Batch: 564975

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564757

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	101	88.0		mg/Kg		88	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 400-564408/14-A
Matrix: Solid
Analysis Batch: 564729

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564408

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.013	0.0080	mg/Kg		01/26/22 13:49	01/27/22 16:15	1

Lab Sample ID: LCS 400-564408/15-A
Matrix: Solid
Analysis Batch: 564729

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564408

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0671	0.0674		mg/Kg		100	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 400-214145-2 MS — **Client Sample ID: MW-2 8'-10'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 564729 — **Prep Batch: 564408**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.059	F1	0.177	0.192	F1	mg/Kg	☼	75	80 - 120

Lab Sample ID: 400-214145-2 MSD — **Client Sample ID: MW-2 8'-10'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 564729 — **Prep Batch: 564408**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.059	F1	0.173	0.197	F1	mg/Kg	☼	79	80 - 120	2	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 400-564037/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 564052 — **Prep Batch: 564037**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND		5.0	2.8	mg/Kg		01/23/22 04:00	01/23/22 23:03	1

Lab Sample ID: LCS 400-564037/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 564052 — **Prep Batch: 564037**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hex	100	94.1		mg/Kg		94	80 - 120

Lab Sample ID: LCSSRM 400-564037/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 564052 — **Prep Batch: 564037**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hex	191	93.7		mg/Kg		49.1	20.5 - 153.8

Lab Sample ID: 400-214145-1 MS — **Client Sample ID: MW-1 2'-4'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 564052 — **Prep Batch: 564037**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hex	ND	F1	118	92.5	F1	mg/Kg	☼	79	85 - 115

Lab Sample ID: 400-214145-1 MSD — **Client Sample ID: MW-1 2'-4'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 564052 — **Prep Batch: 564037**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hex	ND	F1	118	96.2	F1	mg/Kg	☼	81	85 - 115	4	25

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: MRL 400-564052/3
Matrix: Solid
Analysis Batch: 564052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium, hex			0.200	0.208		mg/L		104	50 - 150		

Method: Moisture - Percent Moisture

Lab Sample ID: 400-214145-1 DU
Matrix: Solid
Analysis Batch: 563907

Client Sample ID: MW-1 2'-4'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	80.5			81.0		%				0.6	10
Percent Moisture	19.5			19.0		%				3	

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: MW-1 2'-4'
Date Collected: 01/13/22 12:12
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			563907	01/21/22 09:10	WJM	TAL PEN

Client Sample ID: MW-1 2'-4'
Date Collected: 01/13/22 12:12
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-1
Matrix: Solid
Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.195 g	5.00 g	564079	01/24/22 07:22	BEP	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	564059	01/24/22 16:28	BEP	TAL PEN
Total/NA	Prep	3546			15.15 g	1 mL	563906	01/21/22 09:06	NGB	TAL PEN
Total/NA	Analysis	8270C		1			563936	01/21/22 22:10	S1B	TAL PEN
Total/NA	Prep	3050B			.4987 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564115	01/21/22 19:37	SW	TAL PEN
Total/NA	Prep	3050B			.4987 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564247	01/24/22 21:06	SW	TAL PEN
Total/NA	Prep	3050B			.4987 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564368	01/25/22 14:08	SW	TAL PEN
Total/NA	Prep	3050B			.5128 g	50 mL	564757	01/30/22 14:30	NB	TAL PEN
Total/NA	Analysis	6010B		10			564975	01/31/22 15:49	LDC	TAL PEN
Total/NA	Prep	7471B			.5250 g	40 mL	564408	01/26/22 13:49	NET	TAL PEN
Total/NA	Analysis	7471B		1			564729	01/27/22 16:21	NET	TAL PEN
Total/NA	Prep	3060A			0.5373 g	50 mL	564037	01/23/22 04:00	DN1	TAL PEN
Total/NA	Analysis	7196A		1	50 mL	50 mL	564052	01/23/22 23:10	DN1	TAL PEN
Total/NA	Analysis	7196A		1	50 g	50 mL	564038	01/23/22 03:12	DN1	TAL PEN

Client Sample ID: MW-2 8'-10'
Date Collected: 01/13/22 09:40
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			564077	01/24/22 09:21	WJM	TAL PEN

Client Sample ID: MW-2 8'-10'
Date Collected: 01/13/22 09:40
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-2
Matrix: Solid
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.968 g	5.00 g	564079	01/24/22 07:22	BEP	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	564059	01/24/22 16:54	BEP	TAL PEN
Total/NA	Prep	3546			15.05 g	1 mL	563906	01/21/22 09:06	NGB	TAL PEN
Total/NA	Analysis	8270C		1			563936	01/21/22 22:30	S1B	TAL PEN
Total/NA	Prep	3050B			.5090 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564115	01/21/22 19:42	SW	TAL PEN
Total/NA	Prep	3050B			.5090 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564247	01/24/22 21:11	SW	TAL PEN

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: MW-2 8'-10'

Lab Sample ID: 400-214145-2
Date Collected: 01/13/22 09:40
Matrix: Solid
Date Received: 01/14/22 10:22
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.5090 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564368	01/25/22 14:13	SW	TAL PEN
Total/NA	Prep	7471B			.5030 g	40 mL	564408	01/26/22 13:49	NET	TAL PEN
Total/NA	Analysis	7471B		1			564729	01/27/22 16:23	NET	TAL PEN
Total/NA	Prep	3060A			0.5073 g	50 mL	564037	01/23/22 04:00	DN1	TAL PEN
Total/NA	Analysis	7196A		1	50 mL	50 mL	564052	01/23/22 23:06	DN1	TAL PEN
Total/NA	Analysis	7196A		1	50 g	50 mL	564038	01/23/22 03:12	DN1	TAL PEN

Client Sample ID: MW-3 4'-6'

Lab Sample ID: 400-214145-3
Date Collected: 01/13/22 10:29
Matrix: Solid
Date Received: 01/14/22 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			563907	01/21/22 09:10	WJM	TAL PEN

Client Sample ID: MW-3 4'-6'

Lab Sample ID: 400-214145-3
Date Collected: 01/13/22 10:29
Matrix: Solid
Date Received: 01/14/22 10:22
Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.232 g	5.00 g	564079	01/24/22 07:22	BEP	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	564059	01/24/22 17:20	BEP	TAL PEN
Total/NA	Prep	3546			15.15 g	1 mL	563906	01/21/22 09:06	NGB	TAL PEN
Total/NA	Analysis	8270C		1			563936	01/21/22 22:50	S1B	TAL PEN
Total/NA	Prep	3050B			.4613 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564115	01/21/22 19:47	SW	TAL PEN
Total/NA	Prep	3050B			.4613 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564247	01/24/22 21:16	SW	TAL PEN
Total/NA	Prep	3050B			.4613 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564368	01/25/22 14:18	SW	TAL PEN
Total/NA	Prep	7471B			.5316 g	40 mL	564408	01/26/22 13:49	NET	TAL PEN
Total/NA	Analysis	7471B		1			564729	01/27/22 16:46	NET	TAL PEN
Total/NA	Prep	3060A			0.5072 g	50 mL	564037	01/23/22 04:00	DN1	TAL PEN
Total/NA	Analysis	7196A		1	50 mL	50 mL	564052	01/23/22 23:06	DN1	TAL PEN
Total/NA	Analysis	7196A		1	50 g	50 mL	564038	01/23/22 03:12	DN1	TAL PEN

Client Sample ID: VP-1 4'-6'

Lab Sample ID: 400-214145-4
Date Collected: 01/13/22 11:15
Matrix: Solid
Date Received: 01/14/22 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			563907	01/21/22 09:10	WJM	TAL PEN

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: VP-1 4'-6'

Date Collected: 01/13/22 11:15
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-4

Matrix: Solid
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.964 g	5.00 g	564079	01/24/22 07:22	BEP	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	564059	01/24/22 17:46	BEP	TAL PEN
Total/NA	Prep	3546			15.13 g	1 mL	563906	01/21/22 09:06	NGB	TAL PEN
Total/NA	Analysis	8270C		1			563976	01/21/22 19:24	S1B	TAL PEN
Total/NA	Prep	3050B			.5486 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564115	01/21/22 19:52	SW	TAL PEN
Total/NA	Prep	3050B			.5486 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564247	01/24/22 21:21	SW	TAL PEN
Total/NA	Prep	3050B			.5486 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564368	01/25/22 14:23	SW	TAL PEN
Total/NA	Prep	7471B			.5344 g	40 mL	564408	01/26/22 13:49	NET	TAL PEN
Total/NA	Analysis	7471B		1			564729	01/27/22 16:48	NET	TAL PEN
Total/NA	Prep	3060A			0.5628 g	50 mL	564037	01/23/22 04:00	DN1	TAL PEN
Total/NA	Analysis	7196A		1	50 mL	50 mL	564052	01/23/22 23:06	DN1	TAL PEN
Total/NA	Analysis	7196A		1	50 g	50 mL	564038	01/23/22 03:12	DN1	TAL PEN

Client Sample ID: VP-2 0'-2'

Date Collected: 01/13/22 12:20
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			563907	01/21/22 09:10	WJM	TAL PEN

Client Sample ID: VP-2 0'-2'

Date Collected: 01/13/22 12:20
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-5

Matrix: Solid
Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.019 g	5.00 g	564079	01/24/22 07:22	BEP	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	564059	01/24/22 18:12	BEP	TAL PEN
Total/NA	Prep	3546			15.18 g	1 mL	563906	01/21/22 09:06	NGB	TAL PEN
Total/NA	Analysis	8270C		5			563976	01/21/22 19:49	S1B	TAL PEN
Total/NA	Prep	3050B			.4900 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564115	01/21/22 19:57	SW	TAL PEN
Total/NA	Prep	3050B			.4900 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564247	01/24/22 21:26	SW	TAL PEN
Total/NA	Prep	3050B			.4900 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564368	01/25/22 14:28	SW	TAL PEN
Total/NA	Prep	7471B			.5208 g	40 mL	564408	01/26/22 13:49	NET	TAL PEN
Total/NA	Analysis	7471B		1			564729	01/27/22 16:50	NET	TAL PEN
Total/NA	Prep	3060A			0.5195 g	50 mL	564037	01/23/22 04:00	DN1	TAL PEN
Total/NA	Analysis	7196A		1	50 mL	50 mL	564052	01/23/22 23:06	DN1	TAL PEN
Total/NA	Analysis	7196A		1	50 g	50 mL	564038	01/23/22 03:12	DN1	TAL PEN

Client Sample ID: VP-3 4'-6'
Lab Sample ID: 400-214145-6

Date Collected: 01/13/22 11:37
Matrix: Solid
Date Received: 01/14/22 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			563907	01/21/22 09:10	WJM	TAL PEN

Client Sample ID: VP-3 4'-6'
Lab Sample ID: 400-214145-6

Date Collected: 01/13/22 11:37
Matrix: Solid
Date Received: 01/14/22 10:22
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.249 g	5.00 g	564079	01/24/22 07:22	BEP	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	564059	01/24/22 18:38	BEP	TAL PEN
Total/NA	Prep	3546			15.25 g	1 mL	563906	01/21/22 09:06	NGB	TAL PEN
Total/NA	Analysis	8270C		2			563976	01/21/22 20:13	S1B	TAL PEN
Total/NA	Prep	3050B			.5214 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564115	01/21/22 20:02	SW	TAL PEN
Total/NA	Prep	3050B			.5214 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564247	01/24/22 21:31	SW	TAL PEN
Total/NA	Prep	3050B			.5214 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564368	01/25/22 14:33	SW	TAL PEN
Total/NA	Prep	7471B			.5168 g	40 mL	564408	01/26/22 13:49	NET	TAL PEN
Total/NA	Analysis	7471B		1			564729	01/27/22 16:52	NET	TAL PEN
Total/NA	Prep	3060A			0.5324 g	50 mL	564037	01/23/22 04:00	DN1	TAL PEN
Total/NA	Analysis	7196A		1	50 mL	50 mL	564052	01/23/22 23:06	DN1	TAL PEN
Total/NA	Analysis	7196A		1	50 g	50 mL	564038	01/23/22 03:12	DN1	TAL PEN

Client Sample ID: VP-4 2'-4'
Lab Sample ID: 400-214145-7

Date Collected: 01/13/22 12:00
Matrix: Solid
Date Received: 01/14/22 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			563907	01/21/22 09:10	WJM	TAL PEN

Client Sample ID: VP-4 2'-4'
Lab Sample ID: 400-214145-7

Date Collected: 01/13/22 12:00
Matrix: Solid
Date Received: 01/14/22 10:22
Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.494 g	5.00 g	564079	01/24/22 07:22	BEP	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	564059	01/24/22 19:04	BEP	TAL PEN
Total/NA	Prep	3546			15.42 g	1 mL	563906	01/21/22 09:06	NGB	TAL PEN
Total/NA	Analysis	8270C		1			563976	01/21/22 20:38	S1B	TAL PEN
Total/NA	Prep	3050B			.5183 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564115	01/21/22 20:28	SW	TAL PEN
Total/NA	Prep	3050B			.5183 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564247	01/24/22 21:36	SW	TAL PEN
Total/NA	Prep	3050B			.5183 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564368	01/25/22 14:39	SW	TAL PEN

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: VP-4 2'-4'
Lab Sample ID: 400-214145-7
Date Collected: 01/13/22 12:00
Matrix: Solid
Date Received: 01/14/22 10:22
Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			.5218 g	40 mL	564408	01/26/22 13:49	NET	TAL PEN
Total/NA	Analysis	7471B		1			564729	01/27/22 16:54	NET	TAL PEN
Total/NA	Prep	3060A			0.5165 g	50 mL	564037	01/23/22 04:00	DN1	TAL PEN
Total/NA	Analysis	7196A		1	50 mL	50 mL	564052	01/23/22 23:06	DN1	TAL PEN
Total/NA	Analysis	7196A		1	50 g	50 mL	564038	01/23/22 03:12	DN1	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-563861/1-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.4981 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564115	01/21/22 18:16	SW	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-563906/1-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15 g	1 mL	563906	01/21/22 09:06	NGB	TAL PEN
Total/NA	Analysis	8270C		1			563936	01/21/22 19:26	S1B	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-564037/1-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			0.5000 g	50 mL	564037	01/23/22 04:00	DN1	TAL PEN
Total/NA	Analysis	7196A		1	50 mL	50 mL	564052	01/23/22 23:03	DN1	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-564079/2-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5.00 g	564079	01/24/22 07:22	BEP	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	564059	01/24/22 10:24	BEP	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-564408/14-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			.6000 g	40 mL	564408	01/26/22 13:49	NET	TAL PEN
Total/NA	Analysis	7471B		1			564729	01/27/22 16:15	NET	TAL PEN

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: Method Blank — Lab Sample ID: MB 400-564757/1-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.5001 g	50 mL	564757	01/30/22 14:30	NB	TAL PEN
Total/NA	Analysis	6010B		1			564975	01/31/22 15:09	LDC	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-563861/2-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.4973 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564115	01/21/22 18:22	SW	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-563906/2-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15 g	1 mL	563906	01/21/22 09:06	NGB	TAL PEN
Total/NA	Analysis	8270C		1			563936	01/21/22 20:27	S1B	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-564037/2-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			0.5000 g	50 mL	564037	01/23/22 04:00	DN1	TAL PEN
Total/NA	Analysis	7196A		1	50 mL	50 mL	564052	01/23/22 23:03	DN1	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-564079/1-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5.00 g	564079	01/24/22 07:22	BEP	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	564059	01/24/22 09:04	BEP	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-564408/15-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			.6005 g	40 mL	564408	01/26/22 13:49	NET	TAL PEN
Total/NA	Analysis	7471B		1			564729	01/27/22 16:17	NET	TAL PEN

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-564757/2-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.4975 g	50 mL	564757	01/30/22 14:30	NB	TAL PEN
Total/NA	Analysis	6010B		1			564975	01/31/22 15:14	LDC	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCSSRM 400-564037/4-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			0.2041 g	50 mL	564037	01/23/22 04:00	DN1	TAL PEN
Total/NA	Analysis	7196A		1	50 mL	50 mL	564052	01/23/22 23:03	DN1	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: MRL 400-564052/3
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1	50 mL	50 mL	564052	01/23/22 23:03	DN1	TAL PEN

Client Sample ID: MW-1 2'-4'
Lab Sample ID: 400-214145-1 MS
Date Collected: 01/13/22 12:12
Matrix: Solid
Date Received: 01/14/22 10:22
Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			0.5282 g	50 mL	564037	01/23/22 04:00	DN1	TAL PEN
Total/NA	Analysis	7196A		1	50 mL	50 mL	564052	01/23/22 23:03	DN1	TAL PEN

Client Sample ID: MW-1 2'-4'
Lab Sample ID: 400-214145-1 MSD
Date Collected: 01/13/22 12:12
Matrix: Solid
Date Received: 01/14/22 10:22
Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			0.5247 g	50 mL	564037	01/23/22 04:00	DN1	TAL PEN
Total/NA	Analysis	7196A		1	50 mL	50 mL	564052	01/23/22 23:03	DN1	TAL PEN

Client Sample ID: MW-2 8'-10'
Lab Sample ID: 400-214145-2 MS
Date Collected: 01/13/22 09:40
Matrix: Solid
Date Received: 01/14/22 10:22
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			.5066 g	40 mL	564408	01/26/22 13:49	NET	TAL PEN
Total/NA	Analysis	7471B		1			564729	01/27/22 16:42	NET	TAL PEN

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Client Sample ID: MW-2 8'-10'

Date Collected: 01/13/22 09:40
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-2 MSD

Matrix: Solid
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			.5182 g	40 mL	564408	01/26/22 13:49	NET	TAL PEN
Total/NA	Analysis	7471B		1			564729	01/27/22 16:44	NET	TAL PEN

Client Sample ID: MW-1 2'-4'

Date Collected: 01/13/22 12:12
Date Received: 01/14/22 10:22

Lab Sample ID: 400-214145-1 DU

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			563907	01/21/22 09:10	WJM	TAL PEN

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E-211000

Job ID: 400-214145-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
6010B	Metals (ICP)	SW846	TAL PEN
7471B	Mercury (CVAA)	SW846	TAL PEN
7196A	Chromium, Hexavalent	SW846	TAL PEN
7196A	Chromium, Trivalent (Colorimetric)	SW846	TAL PEN
Moisture	Percent Moisture	EPA	TAL PEN
3050B	Preparation, Metals	SW846	TAL PEN
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	TAL PEN
3546	Microwave Extraction	SW846	TAL PEN
5035	Closed System Purge and Trap	SW846	TAL PEN
7471B	Preparation, Mercury	SW846	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Phone (850) 478-2671

Chain of Custody Record

eurofins Environment Testing America

2/3/2022

Client Information

Client Contact: Drew Moscovic / Jennifer Adler
Company: Giles Engineering Associates
Address: 2626 Lombardy Lane Suite 105
City: Dallas
State, Zip: TX, 75220
Phone: 214-358-5885(Tel) 214-358-5884(Fax)
Email: dmoscovic@gilesengr.com
Project Name: CFA 4434/Silver Creek & Capital FSU
Site: CFA4434/Silver Creek & Capital FSU

Sampler: Drew Moscovic
Phone: 214-358-5885
PWSID:
Due Date Requested:
TAT Requested (days): Standard
Compliance Project: Δ Yes X No
PO #: 2E-2110007
WO #:
Project #: 40011728
SSOW#:

Lab PM: McKinney, Jamie A
E-Mail: Jamie.McKinney@Eurofinset.com
Carrier Tracking No(s):
State of Origin: CA

COC No: 400-107068-38065.1
Page: Page 1 of 1
Job #:

Analysis Requested

400-214145 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270C - (MOD) Routine List (Lab Defined)	6010B (CA 22_7471B	7196A - Local Method Cr6+ + Cr3+	8260B - (MOD) Routine 8260	8260B - (MOD) Routine 8260 + oxygenates	% Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	N		A		X	
MW-1 2'-4'	1/13/22		G	Solid			X	X	X		X	X		
MW-2 8'-10'	1/13/22		G	Solid										
MW-3 4'-6'	1/13/22		G	Solid										
VP-1 4'-6'	1/13/22		G	Solid										
VP-2 0'-2'	1/13/22		G	Solid										
VP-3 4'-6'	1/13/22		G	~~Water~~ Solid										
VP-4 2'-4'	1/13/22		G	Solid										

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	1/18/22 20:30	Giles			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Phone (850) 478-2671

Chain of Custody Record

eurofins
Environment Testing America

Client Information
Client Contact: Drew Moscovic / Jennifer Adler
Company: Giles Engineering Associates
Address: 2626 Lombardy Lane Suite 105
City: Dallas
State, Zip: TX, 75220
Phone: 214-358-5885(Tel) 214-358-5884(Fax)
Email: dmoscovic@gilesengr.com
Project Name: CFA 4434/Silver Creek & Capital FSU
Site: CFA4434/Silver Creek & Capital FSU

Sampler: Drew Moscovic
Phone: 214-358-5885
PWSID:
Due Date Requested:
TAT Requested (days): Standard
Compliance Project: Δ Yes X No
PO #: 2E-2110007
WO #:
Project #: 40011728
SSOW#:

Lab PM: McKinney, Jamie A
E-Mail: Jamie.McKinney@Eurofinset.com
Carrier Tracking No(s):
State of Origin: CA

COC No: 400-107068-38065.1
Page: Page 1 of 1
Job #:

Analysis Requested

400-214145 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270C - (MOD) Routine List (Lab Defined)	6010B (CA 22_7471B	7196A - Local Method Cr6+ + Cr3+	8260B - (MOD) Routine 8260	8260B - (MOD) Routine 8260 + oxygenates	% Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	N		A		X	
MW-1 2'-4'	1/13/22		G	Solid			X	X	X		X	X		
MW-2 8'-10'	1/13/22		G	Solid										
MW-3 4'-6'	1/13/22		G	Solid										
VP-1 4'-6'	1/13/22		G	Solid										
VP-2 0'-2'	1/13/22		G	Solid										
VP-3 4'-6'	1/13/22		G	~~Water~~ solid										
VP-4 2'-4'	1/13/22		G	solid										

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For Months

Deliverable Requested: I, II, III, IV, Other (specify)
Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	1/13/22 20:32	Giles			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1-14-22 1022	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 3.2°C IR8

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Giles Engineering Associates

Job Number: 400-214145-1

Login Number: 214145
List Number: 1
Creator: Whitley, Adrian

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.2°C IR7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX D

Groundwater Analytical Laboratory Report and Chain-of-Custody

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ANALYTICAL REPORT

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-216081-1
Client Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose CA

For:
Giles Engineering Associates
2626 Lombardy Lane
Suite 105
Dallas, Texas 75220

Attn: Mr. Mike Pisarik

Authorized for release by:
3/11/2022 8:51:04 AM

Jamie McKinney, Senior Project Manager
(865)291-3000
Jamie.McKinney@Eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Definitions/Glossary

Client: Giles Engineering Associates
Job ID: 400-216081-1
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose CA

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 400-216081-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-216081-1

Comments
No additional comments.

Receipt
The samples were received on 2/25/2022 10:57 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.5º C.

Metals
Methods 200.7 Rev 4.4, 6010B: The ICV for batch 400-568702 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RSD for the elements were outside of the criteria for standards but within the criteria for field samples. Data has therefore been reported and narrated accordingly.

Method 6010B: The continuing calibration verification (CCV) associated with batch 400-568401 recovered above the upper control limit for Vanadium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (MB 400-568128/1-A).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose CA

Job ID: 400-216081-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-216081-1	MW-1	Water	02/23/22 08:34	02/25/22 10:57
400-216081-2	MW-2	Water	02/23/22 09:30	02/25/22 10:57
400-216081-3	MW-3	Water	02/23/22 10:17	02/25/22 10:57

Detection Summary

Client: Giles Engineering Associates
Job ID: 400-216081-1
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose CA

Client Sample ID: MW-1 — Lab Sample ID: 400-216081-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.16		0.010	0.0030	mg/L	1		6010B	Total/NA
Molybdenum	0.0043	J B	0.10	0.0040	mg/L	1		6010B	Total/NA
Nickel	0.0037	J	0.0060	0.0030	mg/L	1		6010B	Total/NA
Antimony	0.033	J	0.050	0.022	mg/L	1		6010B	Total/NA

Client Sample ID: MW-2 — Lab Sample ID: 400-216081-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0043	J	0.010	0.0030	mg/L	1		6010B	Total/NA
Barium	0.19		0.010	0.0030	mg/L	1		6010B	Total/NA
Chromium	0.0076	J	0.010	0.0050	mg/L	1		6010B	Total/NA
Copper	0.017	J	0.020	0.017	mg/L	1		6010B	Total/NA
Nickel	0.0054	J	0.0060	0.0030	mg/L	1		6010B	Total/NA
Lead	0.0035	J B	0.010	0.0020	mg/L	1		6010B	Total/NA
Antimony	0.043	J	0.050	0.022	mg/L	1		6010B	Total/NA
Selenium	0.0080	J	0.020	0.0080	mg/L	1		6010B	Total/NA
Vanadium	0.053		0.020	0.0070	mg/L	1		6010B	Total/NA

Client Sample ID: MW-3 — Lab Sample ID: 400-216081-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.29		0.010	0.0030	mg/L	1		6010B	Total/NA
Chromium	0.0055	J	0.010	0.0050	mg/L	1		6010B	Total/NA
Molybdenum	0.0068	J B	0.10	0.0040	mg/L	1		6010B	Total/NA
Nickel	0.0056	J	0.0060	0.0030	mg/L	1		6010B	Total/NA
Vanadium	0.10		0.020	0.0070	mg/L	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose CA

Job ID: 400-216081-1

Client Sample ID: MW-1

Date Collected: 02/23/22 08:34
Date Received: 02/25/22 10:57

Lab Sample ID: 400-216081-1

Matrix: Water

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0050	0.0040	mg/L		02/28/22 11:44	03/01/22 18:10	1
Arsenic	ND		0.010	0.0030	mg/L		02/28/22 11:44	03/02/22 02:16	1
Barium	**0.16**		0.010	0.0030	mg/L		02/28/22 11:44	03/01/22 18:10	1
Beryllium	ND		0.0030	0.0010	mg/L		02/28/22 11:44	03/01/22 18:10	1
Cadmium	ND		0.0050	0.0020	mg/L		02/28/22 11:44	03/01/22 18:10	1
Cobalt	ND		0.010	0.0030	mg/L		02/28/22 11:44	03/01/22 18:10	1
Chromium	ND		0.010	0.0050	mg/L		02/28/22 11:44	03/01/22 18:10	1
Copper	ND		0.020	0.017	mg/L		02/28/22 11:44	03/03/22 20:10	1
Molybdenum	**0.0043**	**J B**	0.10	0.0040	mg/L		02/28/22 11:44	03/01/22 18:10	1
Nickel	**0.0037**	**J**	0.0060	0.0030	mg/L		02/28/22 11:44	03/02/22 02:16	1
Lead	ND		0.010	0.0020	mg/L		02/28/22 11:44	03/02/22 18:18	1
Antimony	**0.033**	**J**	0.050	0.022	mg/L		02/28/22 11:44	03/01/22 18:10	1
Selenium	ND		0.020	0.0080	mg/L		02/28/22 11:44	03/02/22 18:18	1
Thallium	ND		0.020	0.0080	mg/L		02/28/22 11:44	03/02/22 02:16	1
Vanadium	ND		0.020	0.0070	mg/L		02/28/22 11:44	03/02/22 02:16	1
Zinc	ND		0.020	0.0080	mg/L		02/28/22 11:44	03/02/22 02:16	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.15	ug/L		03/02/22 11:15	03/10/22 15:09	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose CA

Job ID: 400-216081-1

Client Sample ID: MW-2

Date Collected: 02/23/22 09:30
Date Received: 02/25/22 10:57

Lab Sample ID: 400-216081-2

Matrix: Water

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0050	0.0040	mg/L		02/28/22 11:44	03/01/22 18:14	1
Arsenic	**0.0043**	**J**	0.010	0.0030	mg/L		02/28/22 11:44	03/02/22 02:21	1
Barium	**0.19**		0.010	0.0030	mg/L		02/28/22 11:44	03/01/22 18:14	1
Beryllium	ND		0.0030	0.0010	mg/L		02/28/22 11:44	03/01/22 18:14	1
Cadmium	ND		0.0050	0.0020	mg/L		02/28/22 11:44	03/01/22 18:14	1
Cobalt	ND		0.010	0.0030	mg/L		02/28/22 11:44	03/01/22 18:14	1
Chromium	**0.0076**	**J**	0.010	0.0050	mg/L		02/28/22 11:44	03/01/22 18:14	1
Copper	**0.017**	**J**	0.020	0.017	mg/L		02/28/22 11:44	03/03/22 20:15	1
Molybdenum	ND		0.10	0.0040	mg/L		02/28/22 11:44	03/01/22 18:14	1
Nickel	**0.0054**	**J**	0.0060	0.0030	mg/L		02/28/22 11:44	03/02/22 02:21	1
Lead	**0.0035**	**J B**	0.010	0.0020	mg/L		02/28/22 11:44	03/02/22 18:23	1
Antimony	**0.043**	**J**	0.050	0.022	mg/L		02/28/22 11:44	03/01/22 18:14	1
Selenium	**0.0080**	**J**	0.020	0.0080	mg/L		02/28/22 11:44	03/02/22 18:23	1
Thallium	ND		0.020	0.0080	mg/L		02/28/22 11:44	03/02/22 02:21	1
Vanadium	**0.053**		0.020	0.0070	mg/L		02/28/22 11:44	03/03/22 20:15	1
Zinc	ND		0.020	0.0080	mg/L		02/28/22 11:44	03/02/22 02:21	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.15	ug/L		03/02/22 11:15	03/10/22 15:11	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose CA

Job ID: 400-216081-1

Client Sample ID: MW-3

Date Collected: 02/23/22 10:17
Date Received: 02/25/22 10:57

Lab Sample ID: 400-216081-3

Matrix: Water

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0050	0.0040	mg/L		02/28/22 11:44	03/01/22 18:18	1
Arsenic	ND		0.010	0.0030	mg/L		02/28/22 11:44	03/02/22 02:27	1
Barium	**0.29**		0.010	0.0030	mg/L		02/28/22 11:44	03/01/22 18:18	1
Beryllium	ND		0.0030	0.0010	mg/L		02/28/22 11:44	03/01/22 18:18	1
Cadmium	ND		0.0050	0.0020	mg/L		02/28/22 11:44	03/01/22 18:18	1
Cobalt	ND		0.010	0.0030	mg/L		02/28/22 11:44	03/01/22 18:18	1
Chromium	**0.0055**	**J**	0.010	0.0050	mg/L		02/28/22 11:44	03/01/22 18:18	1
Copper	ND		0.020	0.017	mg/L		02/28/22 11:44	03/04/22 18:38	1
Molybdenum	**0.0068**	**J B**	0.10	0.0040	mg/L		02/28/22 11:44	03/01/22 18:18	1
Nickel	**0.0056**	**J**	0.0060	0.0030	mg/L		02/28/22 11:44	03/02/22 02:27	1
Lead	ND		0.010	0.0020	mg/L		02/28/22 11:44	03/02/22 18:28	1
Antimony	ND		0.050	0.022	mg/L		02/28/22 11:44	03/01/22 18:18	1
Selenium	ND		0.020	0.0080	mg/L		02/28/22 11:44	03/02/22 18:28	1
Thallium	ND		0.020	0.0080	mg/L		02/28/22 11:44	03/02/22 02:27	1
Vanadium	**0.10**		0.020	0.0070	mg/L		02/28/22 11:44	03/03/22 20:20	1
Zinc	ND		0.020	0.0080	mg/L		02/28/22 11:44	03/02/22 02:27	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.15	ug/L		03/02/22 11:15	03/10/22 15:13	1

QC Association Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose CA

Job ID: 400-216081-1

Metals

Prep Batch: 568128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-216081-1	MW-1	Total/NA	Water	3010A	
400-216081-2	MW-2	Total/NA	Water	3010A	
400-216081-3	MW-3	Total/NA	Water	3010A	
MB 400-568128/1-A	Method Blank	Total/NA	Water	3010A	
LCS 400-568128/2-A	Lab Control Sample	Total/NA	Water	3010A	

Prep Batch: 568363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-216081-1	MW-1	Total/NA	Water	7470A	
400-216081-2	MW-2	Total/NA	Water	7470A	
400-216081-3	MW-3	Total/NA	Water	7470A	
MB 400-568363/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-568363/15-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 568401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-216081-1	MW-1	Total/NA	Water	6010B	568128
400-216081-2	MW-2	Total/NA	Water	6010B	568128
400-216081-3	MW-3	Total/NA	Water	6010B	568128
MB 400-568128/1-A	Method Blank	Total/NA	Water	6010B	568128
LCS 400-568128/2-A	Lab Control Sample	Total/NA	Water	6010B	568128

Analysis Batch: 568402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-216081-1	MW-1	Total/NA	Water	6010B	568128
400-216081-2	MW-2	Total/NA	Water	6010B	568128
400-216081-3	MW-3	Total/NA	Water	6010B	568128
MB 400-568128/1-A	Method Blank	Total/NA	Water	6010B	568128
LCS 400-568128/2-A	Lab Control Sample	Total/NA	Water	6010B	568128

Analysis Batch: 568559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-216081-1	MW-1	Total/NA	Water	6010B	568128
400-216081-2	MW-2	Total/NA	Water	6010B	568128
400-216081-3	MW-3	Total/NA	Water	6010B	568128

Analysis Batch: 568702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-216081-1	MW-1	Total/NA	Water	6010B	568128
400-216081-2	MW-2	Total/NA	Water	6010B	568128
400-216081-3	MW-3	Total/NA	Water	6010B	568128
MB 400-568128/1-A	Method Blank	Total/NA	Water	6010B	568128
LCS 400-568128/2-A	Lab Control Sample	Total/NA	Water	6010B	568128

Analysis Batch: 568837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-216081-3	MW-3	Total/NA	Water	6010B	568128

QC Association Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose CA

Job ID: 400-216081-1

Metals

Analysis Batch: 569519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-216081-1	MW-1	Total/NA	Water	7470A	568363
400-216081-2	MW-2	Total/NA	Water	7470A	568363
400-216081-3	MW-3	Total/NA	Water	7470A	568363
MB 400-568363/14-A	Method Blank	Total/NA	Water	7470A	568363
LCS 400-568363/15-A	Lab Control Sample	Total/NA	Water	7470A	568363

QC Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose CA

Job ID: 400-216081-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 400-568128/1-A
Matrix: Water
Analysis Batch: 568401

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0050	0.0040	mg/L		02/28/22 11:44	03/01/22 17:44	1
Barium	ND		0.010	0.0030	mg/L		02/28/22 11:44	03/01/22 17:44	1
Beryllium	ND		0.0030	0.0010	mg/L		02/28/22 11:44	03/01/22 17:44	1
Cadmium	ND		0.0050	0.0020	mg/L		02/28/22 11:44	03/01/22 17:44	1
Cobalt	ND		0.010	0.0030	mg/L		02/28/22 11:44	03/01/22 17:44	1
Chromium	ND		0.010	0.0050	mg/L		02/28/22 11:44	03/01/22 17:44	1
Molybdenum	0.0121	J	0.10	0.0040	mg/L		02/28/22 11:44	03/01/22 17:44	1
Antimony	ND		0.050	0.022	mg/L		02/28/22 11:44	03/01/22 17:44	1
Vanadium	ND	^+	0.020	0.0070	mg/L		02/28/22 11:44	03/01/22 17:44	1

Lab Sample ID: MB 400-568128/1-A
Matrix: Water
Analysis Batch: 568402

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0030	mg/L		02/28/22 11:44	03/02/22 01:16	1
Nickel	ND		0.0060	0.0030	mg/L		02/28/22 11:44	03/02/22 01:16	1
Lead	ND		0.010	0.0020	mg/L		02/28/22 11:44	03/02/22 01:16	1
Selenium	ND		0.020	0.0080	mg/L		02/28/22 11:44	03/02/22 01:16	1
Thallium	ND		0.020	0.0080	mg/L		02/28/22 11:44	03/02/22 01:16	1
Zinc	ND		0.020	0.0080	mg/L		02/28/22 11:44	03/02/22 01:16	1

Lab Sample ID: MB 400-568128/1-A
Matrix: Water
Analysis Batch: 568702

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.020	0.017	mg/L		02/28/22 11:44	03/03/22 20:00	1

Lab Sample ID: LCS 400-568128/2-A
Matrix: Water
Analysis Batch: 568401

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568128

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.500	0.455		mg/L		91	80 - 120
Barium	1.00	0.960		mg/L		96	80 - 120
Beryllium	0.500	0.568		mg/L		114	80 - 120
Cadmium	0.500	0.546		mg/L		109	80 - 120
Cobalt	1.00	1.01		mg/L		101	80 - 120
Chromium	1.00	1.13		mg/L		113	80 - 120
Molybdenum	1.00	1.07		mg/L		107	80 - 120
Antimony	1.00	1.03		mg/L		103	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 400-568128/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 568402 — **Prep Batch: 568128**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.872		mg/L		87	80 - 120
Nickel	1.00	0.906		mg/L		91	80 - 120
Lead	1.00	0.840		mg/L		84	80 - 120
Selenium	1.00	0.829		mg/L		83	80 - 120
Thallium	1.00	0.867		mg/L		87	80 - 120
Zinc	1.00	0.860		mg/L		86	80 - 120

Lab Sample ID: LCS 400-568128/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 568702 — **Prep Batch: 568128**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	1.00	0.929		mg/L		93	80 - 120
Vanadium	1.00	0.994		mg/L		99	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-568363/14-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 569519 — **Prep Batch: 568363**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.15	ug/L		03/02/22 11:15	03/10/22 14:22	1

Lab Sample ID: LCS 400-568363/15-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 569519 — **Prep Batch: 568363**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.01	0.968		ug/L		96	80 - 120

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose CA

Job ID: 400-216081-1

Client Sample ID: MW-1

Lab Sample ID: 400-216081-1
Date Collected: 02/23/22 08:34
Matrix: Water
Date Received: 02/25/22 10:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	568128	02/28/22 11:44	KWN	TAL PEN
Total/NA	Analysis	6010B		1			568402	03/02/22 02:16	BAW	TAL PEN
Total/NA	Prep	3010A			50 mL	50 mL	568128	02/28/22 11:44	KWN	TAL PEN
Total/NA	Analysis	6010B		1			568559	03/02/22 18:18	BAW	TAL PEN
Total/NA	Prep	3010A			50 mL	50 mL	568128	02/28/22 11:44	KWN	TAL PEN
Total/NA	Analysis	6010B		1			568702	03/03/22 20:10	BAW	TAL PEN
Total/NA	Prep	3010A			50 mL	50 mL	568128	02/28/22 11:44	KWN	TAL PEN
Total/NA	Analysis	6010B		1			568401	03/01/22 18:10	BAW	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	568363	03/02/22 11:15	NET	TAL PEN
Total/NA	Analysis	7470A		1			569519	03/10/22 15:09	NET	TAL PEN

Client Sample ID: MW-2

Lab Sample ID: 400-216081-2
Date Collected: 02/23/22 09:30
Matrix: Water
Date Received: 02/25/22 10:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	568128	02/28/22 11:44	KWN	TAL PEN
Total/NA	Analysis	6010B		1			568402	03/02/22 02:21	BAW	TAL PEN
Total/NA	Prep	3010A			50 mL	50 mL	568128	02/28/22 11:44	KWN	TAL PEN
Total/NA	Analysis	6010B		1			568559	03/02/22 18:23	BAW	TAL PEN
Total/NA	Prep	3010A			50 mL	50 mL	568128	02/28/22 11:44	KWN	TAL PEN
Total/NA	Analysis	6010B		1			568702	03/03/22 20:15	BAW	TAL PEN
Total/NA	Prep	3010A			50 mL	50 mL	568128	02/28/22 11:44	KWN	TAL PEN
Total/NA	Analysis	6010B		1			568401	03/01/22 18:14	BAW	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	568363	03/02/22 11:15	NET	TAL PEN
Total/NA	Analysis	7470A		1			569519	03/10/22 15:11	NET	TAL PEN

Client Sample ID: MW-3

Lab Sample ID: 400-216081-3
Date Collected: 02/23/22 10:17
Matrix: Water
Date Received: 02/25/22 10:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	568128	02/28/22 11:44	KWN	TAL PEN
Total/NA	Analysis	6010B		1			568402	03/02/22 02:27	BAW	TAL PEN
Total/NA	Prep	3010A			50 mL	50 mL	568128	02/28/22 11:44	KWN	TAL PEN
Total/NA	Analysis	6010B		1			568559	03/02/22 18:28	BAW	TAL PEN
Total/NA	Prep	3010A			50 mL	50 mL	568128	02/28/22 11:44	KWN	TAL PEN
Total/NA	Analysis	6010B		1			568702	03/03/22 20:20	BAW	TAL PEN
Total/NA	Prep	3010A			50 mL	50 mL	568128	02/28/22 11:44	KWN	TAL PEN
Total/NA	Analysis	6010B		1			568837	03/04/22 18:38	BAW	TAL PEN
Total/NA	Prep	3010A			50 mL	50 mL	568128	02/28/22 11:44	KWN	TAL PEN
Total/NA	Analysis	6010B		1			568401	03/01/22 18:18	BAW	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	568363	03/02/22 11:15	NET	TAL PEN
Total/NA	Analysis	7470A		1			569519	03/10/22 15:13	NET	TAL PEN

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose CA

Job ID: 400-216081-1

Client Sample ID: Method Blank — Lab Sample ID: MB 400-568128/1-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	568128	02/28/22 11:44	KWN	TAL PEN
Total/NA	Analysis	6010B		1			568402	03/02/22 01:16	BAW	TAL PEN
Total/NA	Prep	3010A			50 mL	50 mL	568128	02/28/22 11:44	KWN	TAL PEN
Total/NA	Analysis	6010B		1			568702	03/03/22 20:00	BAW	TAL PEN
Total/NA	Prep	3010A			50 mL	50 mL	568128	02/28/22 11:44	KWN	TAL PEN
Total/NA	Analysis	6010B		1			568401	03/01/22 17:44	BAW	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-568363/14-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			40 g	40 mL	568363	03/02/22 11:15	NET	TAL PEN
Total/NA	Analysis	7470A		1			569519	03/10/22 14:22	NET	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-568128/2-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	568128	02/28/22 11:44	KWN	TAL PEN
Total/NA	Analysis	6010B		1			568402	03/02/22 01:21	BAW	TAL PEN
Total/NA	Prep	3010A			50 mL	50 mL	568128	02/28/22 11:44	KWN	TAL PEN
Total/NA	Analysis	6010B		1			568702	03/03/22 20:05	BAW	TAL PEN
Total/NA	Prep	3010A			50 mL	50 mL	568128	02/28/22 11:44	KWN	TAL PEN
Total/NA	Analysis	6010B		1			568401	03/01/22 17:48	BAW	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-568363/15-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			40 g	40 mL	568363	03/02/22 11:15	NET	TAL PEN
Total/NA	Analysis	7470A		1			569519	03/10/22 14:27	NET	TAL PEN

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose CA

Job ID: 400-216081-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
3010A	Preparation, Total Metals	SW846	TAL PEN
7470A	Preparation, Mercury	SW846	TAL PEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Phone (850) 478-2671

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Bruce Lopez (BlueTech)	Lab PM: McKinney, Jamie A	Carrier Tracking No(s):	COC No: 400-107122-38074.1
Client Contact: Mr. Mike Pisarik	Phone:	E-Mail: Jamie.McKinney@Eurofinset.com	State of Origin: CA	Page: Page 1 of 1
Company: Giles Engineering Associates	PWSID:			Job #:
Address: 2626 Lombardy Lane Suite 105	Due Date Requested:			
City: Dallas	TAT Requested (days):			
State, Zip: TX, 75220	Compliance Project: Δ Yes Δ No			
Phone: 214-358-5885(Tel) 214-358-5884(Fax)	PO #: 2E-2110007			
Email: mpisarik@gilesengr.com	WO #:			
Project Name: CFA 4434/Silver Creek & Capital FSU	Project #: 40011728			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

400-216081 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270C - (MOD) Routine List (Lab Defined)	6010B (CA 22), 7470A FIELD FILTERED	8260B - (MOD) Routine 8260 + oxygenates	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	A		
MW-1	2/23/22	0834		Water				X			
MW-2	↓	0930		Water				X			
MW-3	↓	1017		Water				X			
				Water							
				Water							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: FedEx Trk# 7761 2665 2732

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	2/23/22 1130	BTS	[signature] (SC)	2/23/22	BTS
[signature]	2/23/22 1530				

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 25°C IR9

Ver: 01/16/2019

3/11/2022

Login Sample Receipt Checklist

Client: Giles Engineering Associates

Job Number: 400-216081-1

Login Number: 216081
List Number: 1
Creator: Roberts, Alexis J

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.5°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-214561-1
Client Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

For:
Giles Engineering Associates
2626 Lombardy Lane
Suite 105
Dallas, Texas 75220

Attn: Mr. Mike Pisarik

Authorized for release by:
2/3/2022 5:31:39 PM

Jamie McKinney, Senior Project Manager
(865)291-3000
Jamie.McKinney@Eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Definitions/Glossary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 400-214561-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-214561-1

Comments
No additional comments.

Receipt
The samples were received on 1/26/2022 10:08 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.2º C.

GC/MS VOA
Method 8260B: Sample TB-1 (400-214561-4) contained Tetrahydrofuran above the reporting limit. Reanalysis was performed with concurring results.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C: The continuing calibration verification (CCV) associated with batch 400-564672 recovered above the upper control limit for 4,6-Dinitro-2-methylphenol and Benzo[g,h,i]perylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270C: The continuing calibration verification (CCV) associated with batch 400-564672 recovered outside acceptance criteria, low biased, for Phenol and Acenaphthene. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Methods 200.7 Rev 4.4, 6010B: The continuing calibration verification (CCV) associated with batch 400-564858 recovered above the upper control limit for Cadmium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-1 (400-214561-1) and MW-3 (400-214561-3).

Method 6010B: The continuing calibration verification (CCV) associated with batch 400-564858 recovered above the upper control limit for Cadmium and Molybdenum. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: MW-2 (400-214561-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-214561-1	MW-1	Water	01/21/22 08:00	01/26/22 10:08
400-214561-2	MW-2	Water	01/21/22 09:00	01/26/22 10:08
400-214561-3	MW-3	Water	01/21/22 08:30	01/26/22 10:08
400-214561-4	TB-1	Water	01/21/22 07:30	01/26/22 10:08

Detection Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

Client Sample ID: MW-1 — Lab Sample ID: 400-214561-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.25		0.050	0.015	mg/L	1		6010B	Total/NA
Barium	5.0		0.050	0.015	mg/L	1		6010B	Total/NA
Cobalt	0.77		0.050	0.015	mg/L	1		6010B	Total/NA
Chromium	3.4		0.050	0.025	mg/L	1		6010B	Total/NA
Copper	0.71		0.10	0.085	mg/L	1		6010B	Total/NA
Nickel	8.7		0.030	0.015	mg/L	1		6010B	Total/NA
Lead	0.26		0.050	0.010	mg/L	1		6010B	Total/NA
Vanadium	1.6		0.10	0.035	mg/L	1		6010B	Total/NA
Zinc	2.1		0.10	0.040	mg/L	1		6010B	Total/NA
Mercury	2.4		0.80	0.60	ug/L	1		7470A	Total/NA

Client Sample ID: MW-2 — Lab Sample ID: 400-214561-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	4.4		1.0	0.85	ug/L	1		8260B	Total/NA
Caprolactam	30		11	2.4	ug/L	1		8270C	Total/NA
Arsenic	0.28		0.050	0.015	mg/L	1		6010B	Total/NA
Barium	4.9		0.050	0.015	mg/L	1		6010B	Total/NA
Cobalt	0.34		0.050	0.015	mg/L	1		6010B	Total/NA
Chromium	1.9		0.050	0.025	mg/L	1		6010B	Total/NA
Copper	0.76		0.10	0.085	mg/L	1		6010B	Total/NA
Nickel	2.3		0.030	0.015	mg/L	1		6010B	Total/NA
Lead	0.26		0.050	0.010	mg/L	1		6010B	Total/NA
Vanadium	1.6		0.10	0.035	mg/L	1		6010B	Total/NA
Zinc	2.0		0.10	0.040	mg/L	1		6010B	Total/NA
Mercury	5.1		0.80	0.60	ug/L	1		7470A	Total/NA

Client Sample ID: MW-3 — Lab Sample ID: 400-214561-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Caprolactam	420		11	2.4	ug/L	1		8270C	Total/NA
Arsenic	0.12		0.050	0.015	mg/L	1		6010B	Total/NA
Barium	2.6		0.050	0.015	mg/L	1		6010B	Total/NA
Cobalt	0.26		0.050	0.015	mg/L	1		6010B	Total/NA
Chromium	1.1		0.050	0.025	mg/L	1		6010B	Total/NA
Copper	0.36		0.10	0.085	mg/L	1		6010B	Total/NA
Nickel	2.3		0.030	0.015	mg/L	1		6010B	Total/NA
Lead	0.12		0.050	0.010	mg/L	1		6010B	Total/NA
Vanadium	0.74		0.10	0.035	mg/L	1		6010B	Total/NA
Zinc	0.91		0.10	0.040	mg/L	1		6010B	Total/NA
Mercury	0.84		0.80	0.60	ug/L	1		7470A	Total/NA

Client Sample ID: TB-1 — Lab Sample ID: 400-214561-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrahydrofuran	6.0		5.0	1.5	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

Client Sample ID: MW-1

Date Collected: 01/21/22 08:00
Date Received: 01/26/22 10:08

Lab Sample ID: 400-214561-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.16	ug/L			01/29/22 16:01	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/29/22 16:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/29/22 16:01	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/29/22 16:01	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/29/22 16:01	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/29/22 16:01	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			01/29/22 16:01	1
1,2,3-Trichlorobenzene	ND		1.0	0.19	ug/L			01/29/22 16:01	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/29/22 16:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/29/22 16:01	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/29/22 16:01	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			01/29/22 16:01	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			01/29/22 16:01	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/29/22 16:01	1
1,2-Dichloroethane	ND		1.0	0.19	ug/L			01/29/22 16:01	1
1,2-Dichloroethene, Total	ND		1.0	0.50	ug/L			01/29/22 16:01	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/29/22 16:01	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/29/22 16:01	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/29/22 16:01	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/29/22 16:01	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/29/22 16:01	1
1,4-Dioxane	ND		400	200	ug/L			01/29/22 16:01	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/29/22 16:01	1
2-Butanone	ND		25	2.6	ug/L			01/29/22 16:01	1
2-Chlorotoluene	ND		1.0	0.57	ug/L			01/29/22 16:01	1
2-Hexanone	ND		25	1.4	ug/L			01/29/22 16:01	1
4-Chlorotoluene	ND		1.0	0.56	ug/L			01/29/22 16:01	1
4-Isopropyltoluene	ND		1.0	0.71	ug/L			01/29/22 16:01	1
4-Methyl-2-pentanone	ND		25	1.8	ug/L			01/29/22 16:01	1
Acetone	ND		25	10	ug/L			01/29/22 16:01	1
Benzene	ND		1.0	0.13	ug/L			01/29/22 16:01	1
Bromobenzene	ND		1.0	0.54	ug/L			01/29/22 16:01	1
Bromochloromethane	ND		1.0	0.21	ug/L			01/29/22 16:01	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/29/22 16:01	1
Bromoform	ND		5.0	0.25	ug/L			01/29/22 16:01	1
Bromomethane	ND		1.0	0.98	ug/L			01/29/22 16:01	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/29/22 16:01	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/29/22 16:01	1
Chlorobenzene	ND		1.0	0.15	ug/L			01/29/22 16:01	1
Chloroethane	ND		1.0	0.76	ug/L			01/29/22 16:01	1
Chloroform	ND		1.0	0.60	ug/L			01/29/22 16:01	1
Chloromethane	ND		1.0	0.32	ug/L			01/29/22 16:01	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/29/22 16:01	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/29/22 16:01	1
Cyclohexane	ND		1.0	0.50	ug/L			01/29/22 16:01	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/29/22 16:01	1
Dibromomethane	ND		5.0	0.22	ug/L			01/29/22 16:01	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/31/22 15:25	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

Client Sample ID: MW-1

Date Collected: 01/21/22 08:00
Date Received: 01/26/22 10:08

Lab Sample ID: 400-214561-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diisopropyl ether	ND		1.0	0.20	ug/L			01/29/22 16:01	1
Ethyl tert-butyl ether	ND		1.0	0.28	ug/L			01/29/22 16:01	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/29/22 16:01	1
Freon TF	ND		1.0	0.50	ug/L			01/29/22 16:01	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/29/22 16:01	1
Isobutyl alcohol	ND		25	10	ug/L			01/29/22 16:01	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/29/22 16:01	1
m&p-Xylene	ND		5.0	0.63	ug/L			01/29/22 16:01	1
Methyl acetate	ND		5.0	0.61	ug/L			01/29/22 16:01	1
Methyl iodide	ND		1.0	0.90	ug/L			01/29/22 16:01	1
Methyl t-butyl ether	ND		1.0	0.22	ug/L			01/29/22 16:01	1
Methylcyclohexane	ND		1.0	0.50	ug/L			01/29/22 16:01	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/29/22 16:01	1
Naphthalene	ND		1.0	1.0	ug/L			01/29/22 16:01	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/29/22 16:01	1
n-Propylbenzene	ND		1.0	0.69	ug/L			01/29/22 16:01	1
o-Xylene	ND		5.0	0.60	ug/L			01/29/22 16:01	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/29/22 16:01	1
Styrene	ND		1.0	1.0	ug/L			01/29/22 16:01	1
Tert-amyl methyl ether	ND		1.0	0.23	ug/L			01/29/22 16:01	1
tert-Butyl alcohol (TBA)	ND		10	4.9	ug/L			01/29/22 16:01	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/29/22 16:01	1
Tetrachloroethene	ND		1.0	0.12	ug/L			01/29/22 16:01	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			01/29/22 16:01	1
Toluene	ND		1.0	0.41	ug/L			01/29/22 16:01	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/29/22 16:01	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/29/22 16:01	1
Trichloroethene	ND		1.0	0.15	ug/L			01/29/22 16:01	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			01/29/22 16:01	1
Vinyl acetate	ND		25	0.93	ug/L			01/29/22 16:01	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/29/22 16:01	1
Xylenes, Total	ND		10	1.6	ug/L			01/29/22 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*72 - 119*		*01/29/22 16:01*	*1*
4-Bromofluorobenzene	*90*		*72 - 119*		*01/31/22 15:25*	*1*
Toluene-d8	*87*		*64 - 132*		*01/29/22 16:01*	*1*
Toluene-d8	*84*		*64 - 132*		*01/31/22 15:25*	*1*
Dibromofluoromethane	*104*		*75 - 126*		*01/29/22 16:01*	*1*
Dibromofluoromethane	*106*		*75 - 126*		*01/31/22 15:25*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		10	4.1	ug/L		01/27/22 13:29	01/28/22 15:12	1
1,4-Dichlorobenzene	ND		10	2.0	ug/L		01/27/22 13:29	01/28/22 15:12	1
1-Methylnaphthalene	ND		10	4.0	ug/L		01/27/22 13:29	01/28/22 15:12	1
2,3,4,6-Tetrachlorophenol	ND		10	5.2	ug/L		01/27/22 13:29	01/28/22 15:12	1
2,4,5-Trichlorophenol	ND		10	4.2	ug/L		01/27/22 13:29	01/28/22 15:12	1
2,4,6-Trichlorophenol	ND		10	3.6	ug/L		01/27/22 13:29	01/28/22 15:12	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

Client Sample ID: MW-1

Date Collected: 01/21/22 08:00
Date Received: 01/26/22 10:08

Lab Sample ID: 400-214561-1

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		10	4.5	ug/L		01/27/22 13:29	01/28/22 15:12	1
2,4-Dimethylphenol	ND		10	5.4	ug/L		01/27/22 13:29	01/28/22 15:12	1
2,4-Dinitrophenol	ND		31	4.8	ug/L		01/27/22 13:29	01/28/22 15:12	1
2-Chloronaphthalene	ND		10	4.0	ug/L		01/27/22 13:29	01/28/22 15:12	1
2-Chlorophenol	ND		10	4.3	ug/L		01/27/22 13:29	01/28/22 15:12	1
2-Methylnaphthalene	ND		10	4.8	ug/L		01/27/22 13:29	01/28/22 15:12	1
2-Methylphenol	ND		10	7.2	ug/L		01/27/22 13:29	01/28/22 15:12	1
2-Nitroaniline	ND		10	5.2	ug/L		01/27/22 13:29	01/28/22 15:12	1
2-Nitrophenol	ND		10	4.8	ug/L		01/27/22 13:29	01/28/22 15:12	1
3 & 4 Methylphenol	ND		21	4.8	ug/L		01/27/22 13:29	01/28/22 15:12	1
3,3'-Dichlorobenzidine	ND		11	11	ug/L		01/27/22 13:29	01/28/22 15:12	1
3-Nitroaniline	ND		10	4.9	ug/L		01/27/22 13:29	01/28/22 15:12	1
4,6-Dinitro-2-methylphenol	ND		10	10	ug/L		01/27/22 13:29	01/28/22 15:12	1
4-Bromophenyl phenyl ether	ND		10	3.8	ug/L		01/27/22 13:29	01/28/22 15:12	1
4-Chloro-3-methylphenol	ND		10	5.5	ug/L		01/27/22 13:29	01/28/22 15:12	1
4-Chloroaniline	ND		10	4.9	ug/L		01/27/22 13:29	01/28/22 15:12	1
4-Chlorophenyl phenyl ether	ND		10	4.1	ug/L		01/27/22 13:29	01/28/22 15:12	1
4-Nitroaniline	ND		10	4.3	ug/L		01/27/22 13:29	01/28/22 15:12	1
4-Nitrophenol	ND		10	3.4	ug/L		01/27/22 13:29	01/28/22 15:12	1
Acenaphthene	ND		10	4.6	ug/L		01/27/22 13:29	01/28/22 15:12	1
Acenaphthylene	ND		10	4.3	ug/L		01/27/22 13:29	01/28/22 15:12	1
Acetophenone	ND		10	5.3	ug/L		01/27/22 13:29	01/28/22 15:12	1
Aniline	ND		10	9.0	ug/L		01/27/22 13:29	01/28/22 15:12	1
Anthracene	ND		10	4.1	ug/L		01/27/22 13:29	01/28/22 15:12	1
Benzo[a]anthracene	ND		10	1.9	ug/L		01/27/22 13:29	01/28/22 15:12	1
Benzo[a]pyrene	ND		10	1.8	ug/L		01/27/22 13:29	01/28/22 15:12	1
Benzo[b]fluoranthene	ND		10	1.8	ug/L		01/27/22 13:29	01/28/22 15:12	1
Benzo[g,h,i]perylene	ND		10	3.2	ug/L		01/27/22 13:29	01/28/22 15:12	1
Benzo[k]fluoranthene	ND		10	1.8	ug/L		01/27/22 13:29	01/28/22 15:12	1
Benzoic acid	ND		31	25	ug/L		01/27/22 13:29	01/28/22 15:12	1
Benzyl alcohol	ND		10	7.6	ug/L		01/27/22 13:29	01/28/22 15:12	1
Bis(2-chloroethoxy)methane	ND		10	4.8	ug/L		01/27/22 13:29	01/28/22 15:12	1
Bis(2-chloroethyl)ether	ND		10	4.1	ug/L		01/27/22 13:29	01/28/22 15:12	1
Bis(2-ethylhexyl) phthalate	ND		10	9.3	ug/L		01/27/22 13:29	01/28/22 15:12	1
Butyl benzyl phthalate	ND		10	6.0	ug/L		01/27/22 13:29	01/28/22 15:12	1
Carbazole	ND		10	2.0	ug/L		01/27/22 13:29	01/28/22 15:12	1
Chrysene	ND		10	1.9	ug/L		01/27/22 13:29	01/28/22 15:12	1
Di-n-butyl phthalate	ND		10	4.8	ug/L		01/27/22 13:29	01/28/22 15:12	1
Di-n-octyl phthalate	ND		10	6.2	ug/L		01/27/22 13:29	01/28/22 15:12	1
Dibenz(a,h)anthracene	ND		10	2.8	ug/L		01/27/22 13:29	01/28/22 15:12	1
Dibenzofuran	ND		10	4.2	ug/L		01/27/22 13:29	01/28/22 15:12	1
Diethyl phthalate	ND		10	4.6	ug/L		01/27/22 13:29	01/28/22 15:12	1
Dimethyl phthalate	ND		10	4.4	ug/L		01/27/22 13:29	01/28/22 15:12	1
Fluoranthene	ND		10	4.3	ug/L		01/27/22 13:29	01/28/22 15:12	1
Fluorene	ND		10	4.9	ug/L		01/27/22 13:29	01/28/22 15:12	1
Hexachlorobenzene	ND		10	4.4	ug/L		01/27/22 13:29	01/28/22 15:12	1
Hexachlorobutadiene	ND		10	1.8	ug/L		01/27/22 13:29	01/28/22 15:12	1
Hexachlorocyclopentadiene	ND		21	4.7	ug/L		01/27/22 13:29	01/28/22 15:12	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

Client Sample ID: MW-1

Date Collected: 01/21/22 08:00
Date Received: 01/26/22 10:08

Lab Sample ID: 400-214561-1

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	ND		10	2.5	ug/L		01/27/22 13:29	01/28/22 15:12	1
Indeno[1,2,3-cd]pyrene	ND		10	3.0	ug/L		01/27/22 13:29	01/28/22 15:12	1
Isophorone	ND		10	5.4	ug/L		01/27/22 13:29	01/28/22 15:12	1
N-Nitrosodi-n-propylamine	ND		10	5.8	ug/L		01/27/22 13:29	01/28/22 15:12	1
N-Nitrosodimethylamine	ND		10	2.3	ug/L		01/27/22 13:29	01/28/22 15:12	1
N-Nitrosodiphenylamine	ND		10	3.8	ug/L		01/27/22 13:29	01/28/22 15:12	1
Naphthalene	ND		10	4.2	ug/L		01/27/22 13:29	01/28/22 15:12	1
Nitrobenzene	ND		10	4.9	ug/L		01/27/22 13:29	01/28/22 15:12	1
Pentachlorophenol	ND		21	3.8	ug/L		01/27/22 13:29	01/28/22 15:12	1
Phenanthrene	ND		10	3.2	ug/L		01/27/22 13:29	01/28/22 15:12	1
Phenol	ND		10	4.4	ug/L		01/27/22 13:29	01/28/22 15:12	1
Pyrene	ND		10	4.1	ug/L		01/27/22 13:29	01/28/22 15:12	1
Pyridine	ND		10	10	ug/L		01/27/22 13:29	01/28/22 15:12	1
1,2,4,5-Tetrachlorobenzene	ND		10	3.3	ug/L		01/27/22 13:29	01/28/22 15:12	1
1,2,4-Trichlorobenzene	ND		10	3.7	ug/L		01/27/22 13:29	01/28/22 15:12	1
1,2-Dichlorobenzene	ND		10	1.9	ug/L		01/27/22 13:29	01/28/22 15:12	1
2,4-Dinitrotoluene	ND		10	5.3	ug/L		01/27/22 13:29	01/28/22 15:12	1
2,6-Dinitrotoluene	ND		10	4.1	ug/L		01/27/22 13:29	01/28/22 15:12	1
Benzaldehyde	ND		10	1.8	ug/L		01/27/22 13:29	01/28/22 15:12	1
Atrazine	ND		10	2.1	ug/L		01/27/22 13:29	01/28/22 15:12	1
1,1'-Biphenyl	ND		10	3.1	ug/L		01/27/22 13:29	01/28/22 15:12	1
Caprolactam	ND		10	2.3	ug/L		01/27/22 13:29	01/28/22 15:12	1
2,2'-oxybis[1-chloropropane]	ND		10	5.1	ug/L		01/27/22 13:29	01/28/22 15:12	1
Azobenzene	ND		10	1.4	ug/L		01/27/22 13:29	01/28/22 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*52*		*10 - 150*	*01/27/22 13:29*	*01/28/22 15:12*	*1*
2-Fluorophenol (Surr)	*32*		*10 - 105*	*01/27/22 13:29*	*01/28/22 15:12*	*1*
Nitrobenzene-d5 (Surr)	*35*		*16 - 127*	*01/27/22 13:29*	*01/28/22 15:12*	*1*
Phenol-d5 (Surr)	*27*		*10 - 129*	*01/27/22 13:29*	*01/28/22 15:12*	*1*
Terphenyl-d14 (Surr)	*58*		*13 - 150*	*01/27/22 13:29*	*01/28/22 15:12*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.025	0.020	mg/L		01/26/22 17:55	01/31/22 19:36	1
Arsenic	**0.25**		0.050	0.015	mg/L		01/26/22 17:55	01/31/22 19:36	1
Barium	**5.0**		0.050	0.015	mg/L		01/26/22 17:55	01/31/22 19:36	1
Beryllium	ND		0.015	0.0050	mg/L		01/26/22 17:55	01/31/22 19:36	1
Cadmium	ND		0.025	0.010	mg/L		01/26/22 17:55	02/01/22 14:25	1
Cobalt	**0.77**		0.050	0.015	mg/L		01/26/22 17:55	01/31/22 19:36	1
Chromium	**3.4**		0.050	0.025	mg/L		01/26/22 17:55	01/31/22 19:36	1
Copper	**0.71**		0.10	0.085	mg/L		01/26/22 17:55	01/31/22 19:36	1
Molybdenum	ND		0.50	0.020	mg/L		01/26/22 17:55	01/31/22 19:36	1
Nickel	**8.7**		0.030	0.015	mg/L		01/26/22 17:55	01/31/22 19:36	1
Lead	**0.26**		0.050	0.010	mg/L		01/26/22 17:55	01/31/22 19:36	1
Antimony	ND		0.25	0.11	mg/L		01/26/22 17:55	01/31/22 19:36	1
Selenium	ND		0.10	0.040	mg/L		01/26/22 17:55	01/31/22 19:36	1
Thallium	ND		0.10	0.040	mg/L		01/26/22 17:55	01/31/22 19:36	1
Vanadium	**1.6**		0.10	0.035	mg/L		01/26/22 17:55	02/01/22 14:25	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

Client Sample ID: MW-1

Date Collected: 01/21/22 08:00
Date Received: 01/26/22 10:08

Lab Sample ID: 400-214561-1

Matrix: Water

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	2.1		0.10	0.040	mg/L		01/26/22 17:55	01/31/22 19:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.4		0.80	0.60	ug/L		01/28/22 09:49	01/30/22 16:37	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

Client Sample ID: MW-2

Date Collected: 01/21/22 09:00
Date Received: 01/26/22 10:08

Lab Sample ID: 400-214561-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.16	ug/L			01/29/22 16:30	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/29/22 16:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/29/22 16:30	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/29/22 16:30	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/29/22 16:30	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/29/22 16:30	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			01/29/22 16:30	1
1,2,3-Trichlorobenzene	ND		1.0	0.19	ug/L			01/29/22 16:30	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/29/22 16:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/29/22 16:30	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/29/22 16:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			01/29/22 16:30	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			01/29/22 16:30	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/29/22 16:30	1
1,2-Dichloroethane	ND		1.0	0.19	ug/L			01/29/22 16:30	1
1,2-Dichloroethene, Total	ND		1.0	0.50	ug/L			01/29/22 16:30	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/29/22 16:30	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/29/22 16:30	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/29/22 16:30	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/29/22 16:30	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/29/22 16:30	1
1,4-Dioxane	ND		400	200	ug/L			01/29/22 16:30	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/29/22 16:30	1
2-Butanone	ND		25	2.6	ug/L			01/29/22 16:30	1
2-Chlorotoluene	ND		1.0	0.57	ug/L			01/29/22 16:30	1
2-Hexanone	ND		25	1.4	ug/L			01/29/22 16:30	1
4-Chlorotoluene	ND		1.0	0.56	ug/L			01/29/22 16:30	1
4-Isopropyltoluene	ND		1.0	0.71	ug/L			01/29/22 16:30	1
4-Methyl-2-pentanone	ND		25	1.8	ug/L			01/29/22 16:30	1
Acetone	ND		25	10	ug/L			01/29/22 16:30	1
Benzene	ND		1.0	0.13	ug/L			01/29/22 16:30	1
Bromobenzene	ND		1.0	0.54	ug/L			01/29/22 16:30	1
Bromochloromethane	ND		1.0	0.21	ug/L			01/29/22 16:30	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/29/22 16:30	1
Bromoform	ND		5.0	0.25	ug/L			01/29/22 16:30	1
Bromomethane	ND		1.0	0.98	ug/L			01/29/22 16:30	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/29/22 16:30	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/29/22 16:30	1
Chlorobenzene	ND		1.0	0.15	ug/L			01/29/22 16:30	1
Chloroethane	ND		1.0	0.76	ug/L			01/29/22 16:30	1
Chloroform	ND		1.0	0.60	ug/L			01/29/22 16:30	1
Chloromethane	ND		1.0	0.32	ug/L			01/29/22 16:30	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/29/22 16:30	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/29/22 16:30	1
Cyclohexane	ND		1.0	0.50	ug/L			01/29/22 16:30	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/29/22 16:30	1
Dibromomethane	ND		5.0	0.22	ug/L			01/29/22 16:30	1
Dichlorodifluoromethane	**4.4**		1.0	0.85	ug/L			01/30/22 11:23	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

Client Sample ID: MW-2

Date Collected: 01/21/22 09:00
Date Received: 01/26/22 10:08

Lab Sample ID: 400-214561-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diisopropyl ether	ND		1.0	0.20	ug/L			01/29/22 16:30	1
Ethyl tert-butyl ether	ND		1.0	0.28	ug/L			01/29/22 16:30	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/29/22 16:30	1
Freon TF	ND		1.0	0.50	ug/L			01/29/22 16:30	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/29/22 16:30	1
Isobutyl alcohol	ND		25	10	ug/L			01/29/22 16:30	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/29/22 16:30	1
m&p-Xylene	ND		5.0	0.63	ug/L			01/29/22 16:30	1
Methyl acetate	ND		5.0	0.61	ug/L			01/29/22 16:30	1
Methyl iodide	ND		1.0	0.90	ug/L			01/29/22 16:30	1
Methyl t-butyl ether	ND		1.0	0.22	ug/L			01/29/22 16:30	1
Methylcyclohexane	ND		1.0	0.50	ug/L			01/29/22 16:30	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/29/22 16:30	1
Naphthalene	ND		1.0	1.0	ug/L			01/29/22 16:30	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/29/22 16:30	1
n-Propylbenzene	ND		1.0	0.69	ug/L			01/29/22 16:30	1
o-Xylene	ND		5.0	0.60	ug/L			01/29/22 16:30	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/29/22 16:30	1
Styrene	ND		1.0	1.0	ug/L			01/29/22 16:30	1
Tert-amyl methyl ether	ND		1.0	0.23	ug/L			01/29/22 16:30	1
tert-Butyl alcohol (TBA)	ND		10	4.9	ug/L			01/29/22 16:30	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/29/22 16:30	1
Tetrachloroethene	ND		1.0	0.12	ug/L			01/29/22 16:30	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			01/29/22 16:30	1
Toluene	ND		1.0	0.41	ug/L			01/29/22 16:30	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/29/22 16:30	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/29/22 16:30	1
Trichloroethene	ND		1.0	0.15	ug/L			01/29/22 16:30	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			01/29/22 16:30	1
Vinyl acetate	ND		25	0.93	ug/L			01/29/22 16:30	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/29/22 16:30	1
Xylenes, Total	ND		10	1.6	ug/L			01/29/22 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*72 - 119*		*01/29/22 16:30*	*1*
4-Bromofluorobenzene	*92*		*72 - 119*		*01/30/22 11:23*	*1*
Toluene-d8	*82*		*64 - 132*		*01/29/22 16:30*	*1*
Toluene-d8	*101*		*64 - 132*		*01/30/22 11:23*	*1*
Dibromofluoromethane	*106*		*75 - 126*		*01/29/22 16:30*	*1*
Dibromofluoromethane	*99*		*75 - 126*		*01/30/22 11:23*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		11	4.3	ug/L		01/27/22 13:29	01/28/22 15:32	1
1,4-Dichlorobenzene	ND		11	2.1	ug/L		01/27/22 13:29	01/28/22 15:32	1
1-Methylnaphthalene	ND		11	4.2	ug/L		01/27/22 13:29	01/28/22 15:32	1
2,3,4,6-Tetrachlorophenol	ND		11	5.5	ug/L		01/27/22 13:29	01/28/22 15:32	1
2,4,5-Trichlorophenol	ND		11	4.4	ug/L		01/27/22 13:29	01/28/22 15:32	1
2,4,6-Trichlorophenol	ND		11	3.9	ug/L		01/27/22 13:29	01/28/22 15:32	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

Client Sample ID: MW-2

Date Collected: 01/21/22 09:00
Date Received: 01/26/22 10:08

Lab Sample ID: 400-214561-2

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		11	4.7	ug/L		01/27/22 13:29	01/28/22 15:32	1
2,4-Dimethylphenol	ND		11	5.7	ug/L		01/27/22 13:29	01/28/22 15:32	1
2,4-Dinitrophenol	ND		33	5.1	ug/L		01/27/22 13:29	01/28/22 15:32	1
2-Chloronaphthalene	ND		11	4.2	ug/L		01/27/22 13:29	01/28/22 15:32	1
2-Chlorophenol	ND		11	4.5	ug/L		01/27/22 13:29	01/28/22 15:32	1
2-Methylnaphthalene	ND		11	5.1	ug/L		01/27/22 13:29	01/28/22 15:32	1
2-Methylphenol	ND		11	7.6	ug/L		01/27/22 13:29	01/28/22 15:32	1
2-Nitroaniline	ND		11	5.5	ug/L		01/27/22 13:29	01/28/22 15:32	1
2-Nitrophenol	ND		11	5.1	ug/L		01/27/22 13:29	01/28/22 15:32	1
3 & 4 Methylphenol	ND		22	5.1	ug/L		01/27/22 13:29	01/28/22 15:32	1
3,3'-Dichlorobenzidine	ND		12	12	ug/L		01/27/22 13:29	01/28/22 15:32	1
3-Nitroaniline	ND		11	5.2	ug/L		01/27/22 13:29	01/28/22 15:32	1
4,6-Dinitro-2-methylphenol	ND		11	11	ug/L		01/27/22 13:29	01/28/22 15:32	1
4-Bromophenyl phenyl ether	ND		11	4.1	ug/L		01/27/22 13:29	01/28/22 15:32	1
4-Chloro-3-methylphenol	ND		11	5.9	ug/L		01/27/22 13:29	01/28/22 15:32	1
4-Chloroaniline	ND		11	5.2	ug/L		01/27/22 13:29	01/28/22 15:32	1
4-Chlorophenyl phenyl ether	ND		11	4.3	ug/L		01/27/22 13:29	01/28/22 15:32	1
4-Nitroaniline	ND		11	4.5	ug/L		01/27/22 13:29	01/28/22 15:32	1
4-Nitrophenol	ND		11	3.6	ug/L		01/27/22 13:29	01/28/22 15:32	1
Acenaphthene	ND		11	4.9	ug/L		01/27/22 13:29	01/28/22 15:32	1
Acenaphthylene	ND		11	4.5	ug/L		01/27/22 13:29	01/28/22 15:32	1
Acetophenone	ND		11	5.6	ug/L		01/27/22 13:29	01/28/22 15:32	1
Aniline	ND		11	9.6	ug/L		01/27/22 13:29	01/28/22 15:32	1
Anthracene	ND		11	4.3	ug/L		01/27/22 13:29	01/28/22 15:32	1
Benzo[a]anthracene	ND		11	2.0	ug/L		01/27/22 13:29	01/28/22 15:32	1
Benzo[a]pyrene	ND		11	1.9	ug/L		01/27/22 13:29	01/28/22 15:32	1
Benzo[b]fluoranthene	ND		11	1.9	ug/L		01/27/22 13:29	01/28/22 15:32	1
Benzo[g,h,i]perylene	ND		11	3.4	ug/L		01/27/22 13:29	01/28/22 15:32	1
Benzo[k]fluoranthene	ND		11	1.9	ug/L		01/27/22 13:29	01/28/22 15:32	1
Benzoic acid	ND		33	27	ug/L		01/27/22 13:29	01/28/22 15:32	1
Benzyl alcohol	ND		11	8.1	ug/L		01/27/22 13:29	01/28/22 15:32	1
Bis(2-chloroethoxy)methane	ND		11	5.1	ug/L		01/27/22 13:29	01/28/22 15:32	1
Bis(2-chloroethyl)ether	ND		11	4.3	ug/L		01/27/22 13:29	01/28/22 15:32	1
Bis(2-ethylhexyl) phthalate	ND		11	9.8	ug/L		01/27/22 13:29	01/28/22 15:32	1
Butyl benzyl phthalate	ND		11	6.4	ug/L		01/27/22 13:29	01/28/22 15:32	1
Carbazole	ND		11	2.1	ug/L		01/27/22 13:29	01/28/22 15:32	1
Chrysene	ND		11	2.0	ug/L		01/27/22 13:29	01/28/22 15:32	1
Di-n-butyl phthalate	ND		11	5.1	ug/L		01/27/22 13:29	01/28/22 15:32	1
Di-n-octyl phthalate	ND		11	6.6	ug/L		01/27/22 13:29	01/28/22 15:32	1
Dibenz(a,h)anthracene	ND		11	3.0	ug/L		01/27/22 13:29	01/28/22 15:32	1
Dibenzofuran	ND		11	4.4	ug/L		01/27/22 13:29	01/28/22 15:32	1
Diethyl phthalate	ND		11	4.9	ug/L		01/27/22 13:29	01/28/22 15:32	1
Dimethyl phthalate	ND		11	4.6	ug/L		01/27/22 13:29	01/28/22 15:32	1
Fluoranthene	ND		11	4.5	ug/L		01/27/22 13:29	01/28/22 15:32	1
Fluorene	ND		11	5.2	ug/L		01/27/22 13:29	01/28/22 15:32	1
Hexachlorobenzene	ND		11	4.6	ug/L		01/27/22 13:29	01/28/22 15:32	1
Hexachlorobutadiene	ND		11	1.9	ug/L		01/27/22 13:29	01/28/22 15:32	1
Hexachlorocyclopentadiene	ND		22	5.0	ug/L		01/27/22 13:29	01/28/22 15:32	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

Client Sample ID: MW-2

Date Collected: 01/21/22 09:00
Date Received: 01/26/22 10:08

Lab Sample ID: 400-214561-2

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	ND		11	2.7	ug/L		01/27/22 13:29	01/28/22 15:32	1
Indeno[1,2,3-cd]pyrene	ND		11	3.2	ug/L		01/27/22 13:29	01/28/22 15:32	1
Isophorone	ND		11	5.7	ug/L		01/27/22 13:29	01/28/22 15:32	1
N-Nitrosodi-n-propylamine	ND		11	6.2	ug/L		01/27/22 13:29	01/28/22 15:32	1
N-Nitrosodimethylamine	ND		11	2.4	ug/L		01/27/22 13:29	01/28/22 15:32	1
N-Nitrosodiphenylamine	ND		11	4.1	ug/L		01/27/22 13:29	01/28/22 15:32	1
Naphthalene	ND		11	4.4	ug/L		01/27/22 13:29	01/28/22 15:32	1
Nitrobenzene	ND		11	5.2	ug/L		01/27/22 13:29	01/28/22 15:32	1
Pentachlorophenol	ND		22	4.1	ug/L		01/27/22 13:29	01/28/22 15:32	1
Phenanthrene	ND		11	3.4	ug/L		01/27/22 13:29	01/28/22 15:32	1
Phenol	ND		11	4.6	ug/L		01/27/22 13:29	01/28/22 15:32	1
Pyrene	ND		11	4.3	ug/L		01/27/22 13:29	01/28/22 15:32	1
Pyridine	ND		11	11	ug/L		01/27/22 13:29	01/28/22 15:32	1
1,2,4,5-Tetrachlorobenzene	ND		11	3.5	ug/L		01/27/22 13:29	01/28/22 15:32	1
1,2,4-Trichlorobenzene	ND		11	4.0	ug/L		01/27/22 13:29	01/28/22 15:32	1
1,2-Dichlorobenzene	ND		11	2.0	ug/L		01/27/22 13:29	01/28/22 15:32	1
2,4-Dinitrotoluene	ND		11	5.6	ug/L		01/27/22 13:29	01/28/22 15:32	1
2,6-Dinitrotoluene	ND		11	4.3	ug/L		01/27/22 13:29	01/28/22 15:32	1
Benzaldehyde	ND		11	1.9	ug/L		01/27/22 13:29	01/28/22 15:32	1
Atrazine	ND		11	2.2	ug/L		01/27/22 13:29	01/28/22 15:32	1
1,1'-Biphenyl	ND		11	3.3	ug/L		01/27/22 13:29	01/28/22 15:32	1
Caprolactam	**30**		11	2.4	ug/L		01/27/22 13:29	01/28/22 15:32	1
2,2'-oxybis[1-chloropropane]	ND		11	5.4	ug/L		01/27/22 13:29	01/28/22 15:32	1
Azobenzene	ND		11	1.4	ug/L		01/27/22 13:29	01/28/22 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*43*		*10 - 150*	*01/27/22 13:29*	*01/28/22 15:32*	*1*
2-Fluorophenol (Surr)	*31*		*10 - 105*	*01/27/22 13:29*	*01/28/22 15:32*	*1*
Nitrobenzene-d5 (Surr)	*29*		*16 - 127*	*01/27/22 13:29*	*01/28/22 15:32*	*1*
Phenol-d5 (Surr)	*26*		*10 - 129*	*01/27/22 13:29*	*01/28/22 15:32*	*1*
Terphenyl-d14 (Surr)	*47*		*13 - 150*	*01/27/22 13:29*	*01/28/22 15:32*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.025	0.020	mg/L		01/26/22 17:55	01/31/22 19:41	1
Arsenic	**0.28**		0.050	0.015	mg/L		01/26/22 17:55	01/31/22 19:41	1
Barium	**4.9**		0.050	0.015	mg/L		01/26/22 17:55	01/31/22 19:41	1
Beryllium	ND		0.015	0.0050	mg/L		01/26/22 17:55	01/31/22 19:41	1
Cadmium	ND	^+	0.025	0.010	mg/L		01/26/22 17:55	01/28/22 20:06	1
Cobalt	**0.34**		0.050	0.015	mg/L		01/26/22 17:55	01/31/22 19:41	1
Chromium	**1.9**		0.050	0.025	mg/L		01/26/22 17:55	01/31/22 19:41	1
Copper	**0.76**		0.10	0.085	mg/L		01/26/22 17:55	01/31/22 19:41	1
Molybdenum	ND	^+	0.50	0.020	mg/L		01/26/22 17:55	01/28/22 20:06	1
Nickel	**2.3**		0.030	0.015	mg/L		01/26/22 17:55	01/31/22 19:41	1
Lead	**0.26**		0.050	0.010	mg/L		01/26/22 17:55	01/31/22 19:41	1
Antimony	ND		0.25	0.11	mg/L		01/26/22 17:55	01/31/22 19:41	1
Selenium	ND		0.10	0.040	mg/L		01/26/22 17:55	01/31/22 19:41	1
Thallium	ND		0.10	0.040	mg/L		01/26/22 17:55	01/31/22 19:41	1
Vanadium	**1.6**		0.10	0.035	mg/L		01/26/22 17:55	02/01/22 14:29	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

Client Sample ID: MW-2

Lab Sample ID: 400-214561-2

Date Collected: 01/21/22 09:00
Date Received: 01/26/22 10:08

Matrix: Water

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	2.0		0.10	0.040	mg/L		01/26/22 17:55	01/31/22 19:41	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5.1		0.80	0.60	ug/L		01/28/22 09:49	01/30/22 16:39	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

Client Sample ID: MW-3

Date Collected: 01/21/22 08:30
Date Received: 01/26/22 10:08

Lab Sample ID: 400-214561-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.16	ug/L			01/29/22 16:59	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/29/22 16:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/29/22 16:59	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/29/22 16:59	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/29/22 16:59	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/29/22 16:59	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			01/29/22 16:59	1
1,2,3-Trichlorobenzene	ND		1.0	0.19	ug/L			01/29/22 16:59	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/29/22 16:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/29/22 16:59	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/29/22 16:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			01/29/22 16:59	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			01/29/22 16:59	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/29/22 16:59	1
1,2-Dichloroethane	ND		1.0	0.19	ug/L			01/29/22 16:59	1
1,2-Dichloroethene, Total	ND		1.0	0.50	ug/L			01/29/22 16:59	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/29/22 16:59	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/29/22 16:59	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/29/22 16:59	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/29/22 16:59	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/29/22 16:59	1
1,4-Dioxane	ND		400	200	ug/L			01/29/22 16:59	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/29/22 16:59	1
2-Butanone	ND		25	2.6	ug/L			01/29/22 16:59	1
2-Chlorotoluene	ND		1.0	0.57	ug/L			01/29/22 16:59	1
2-Hexanone	ND		25	1.4	ug/L			01/29/22 16:59	1
4-Chlorotoluene	ND		1.0	0.56	ug/L			01/29/22 16:59	1
4-Isopropyltoluene	ND		1.0	0.71	ug/L			01/29/22 16:59	1
4-Methyl-2-pentanone	ND		25	1.8	ug/L			01/29/22 16:59	1
Acetone	ND		25	10	ug/L			01/29/22 16:59	1
Benzene	ND		1.0	0.13	ug/L			01/29/22 16:59	1
Bromobenzene	ND		1.0	0.54	ug/L			01/29/22 16:59	1
Bromochloromethane	ND		1.0	0.21	ug/L			01/29/22 16:59	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/29/22 16:59	1
Bromoform	ND		5.0	0.25	ug/L			01/29/22 16:59	1
Bromomethane	ND		1.0	0.98	ug/L			01/29/22 16:59	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/29/22 16:59	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/29/22 16:59	1
Chlorobenzene	ND		1.0	0.15	ug/L			01/29/22 16:59	1
Chloroethane	ND		1.0	0.76	ug/L			01/29/22 16:59	1
Chloroform	ND		1.0	0.60	ug/L			01/29/22 16:59	1
Chloromethane	ND		1.0	0.32	ug/L			01/29/22 16:59	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/29/22 16:59	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/29/22 16:59	1
Cyclohexane	ND		1.0	0.50	ug/L			01/29/22 16:59	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/29/22 16:59	1
Dibromomethane	ND		5.0	0.22	ug/L			01/29/22 16:59	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/31/22 15:54	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

Client Sample ID: MW-3

Date Collected: 01/21/22 08:30
Date Received: 01/26/22 10:08

Lab Sample ID: 400-214561-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diisopropyl ether	ND		1.0	0.20	ug/L			01/29/22 16:59	1
Ethyl tert-butyl ether	ND		1.0	0.28	ug/L			01/29/22 16:59	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/29/22 16:59	1
Freon TF	ND		1.0	0.50	ug/L			01/29/22 16:59	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/29/22 16:59	1
Isobutyl alcohol	ND		25	10	ug/L			01/29/22 16:59	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/29/22 16:59	1
m&p-Xylene	ND		5.0	0.63	ug/L			01/29/22 16:59	1
Methyl acetate	ND		5.0	0.61	ug/L			01/29/22 16:59	1
Methyl iodide	ND		1.0	0.90	ug/L			01/29/22 16:59	1
Methyl t-butyl ether	ND		1.0	0.22	ug/L			01/29/22 16:59	1
Methylcyclohexane	ND		1.0	0.50	ug/L			01/29/22 16:59	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/29/22 16:59	1
Naphthalene	ND		1.0	1.0	ug/L			01/29/22 16:59	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/29/22 16:59	1
n-Propylbenzene	ND		1.0	0.69	ug/L			01/29/22 16:59	1
o-Xylene	ND		5.0	0.60	ug/L			01/29/22 16:59	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/29/22 16:59	1
Styrene	ND		1.0	1.0	ug/L			01/29/22 16:59	1
Tert-amyl methyl ether	ND		1.0	0.23	ug/L			01/29/22 16:59	1
tert-Butyl alcohol (TBA)	ND		10	4.9	ug/L			01/29/22 16:59	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/29/22 16:59	1
Tetrachloroethene	ND		1.0	0.12	ug/L			01/29/22 16:59	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			01/29/22 16:59	1
Toluene	ND		1.0	0.41	ug/L			01/29/22 16:59	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/29/22 16:59	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/29/22 16:59	1
Trichloroethene	ND		1.0	0.15	ug/L			01/29/22 16:59	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			01/29/22 16:59	1
Vinyl acetate	ND		25	0.93	ug/L			01/29/22 16:59	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/29/22 16:59	1
Xylenes, Total	ND		10	1.6	ug/L			01/29/22 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*72 - 119*		*01/29/22 16:59*	*1*
4-Bromofluorobenzene	*89*		*72 - 119*		*01/31/22 15:54*	*1*
Toluene-d8	*82*		*64 - 132*		*01/29/22 16:59*	*1*
Toluene-d8	*86*		*64 - 132*		*01/31/22 15:54*	*1*
Dibromofluoromethane	*106*		*75 - 126*		*01/29/22 16:59*	*1*
Dibromofluoromethane	*108*		*75 - 126*		*01/31/22 15:54*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		11	4.3	ug/L		01/27/22 13:29	01/28/22 15:53	1
1,4-Dichlorobenzene	ND		11	2.1	ug/L		01/27/22 13:29	01/28/22 15:53	1
1-Methylnaphthalene	ND		11	4.2	ug/L		01/27/22 13:29	01/28/22 15:53	1
2,3,4,6-Tetrachlorophenol	ND		11	5.5	ug/L		01/27/22 13:29	01/28/22 15:53	1
2,4,5-Trichlorophenol	ND		11	4.4	ug/L		01/27/22 13:29	01/28/22 15:53	1
2,4,6-Trichlorophenol	ND		11	3.8	ug/L		01/27/22 13:29	01/28/22 15:53	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

Client Sample ID: MW-3

Date Collected: 01/21/22 08:30
Date Received: 01/26/22 10:08

Lab Sample ID: 400-214561-3

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		11	4.7	ug/L		01/27/22 13:29	01/28/22 15:53	1
2,4-Dimethylphenol	ND		11	5.7	ug/L		01/27/22 13:29	01/28/22 15:53	1
2,4-Dinitrophenol	ND		33	5.0	ug/L		01/27/22 13:29	01/28/22 15:53	1
2-Chloronaphthalene	ND		11	4.2	ug/L		01/27/22 13:29	01/28/22 15:53	1
2-Chlorophenol	ND		11	4.5	ug/L		01/27/22 13:29	01/28/22 15:53	1
2-Methylnaphthalene	ND		11	5.0	ug/L		01/27/22 13:29	01/28/22 15:53	1
2-Methylphenol	ND		11	7.5	ug/L		01/27/22 13:29	01/28/22 15:53	1
2-Nitroaniline	ND		11	5.5	ug/L		01/27/22 13:29	01/28/22 15:53	1
2-Nitrophenol	ND		11	5.0	ug/L		01/27/22 13:29	01/28/22 15:53	1
3 & 4 Methylphenol	ND		22	5.0	ug/L		01/27/22 13:29	01/28/22 15:53	1
3,3'-Dichlorobenzidine	ND		12	12	ug/L		01/27/22 13:29	01/28/22 15:53	1
3-Nitroaniline	ND		11	5.1	ug/L		01/27/22 13:29	01/28/22 15:53	1
4,6-Dinitro-2-methylphenol	ND		11	11	ug/L		01/27/22 13:29	01/28/22 15:53	1
4-Bromophenyl phenyl ether	ND		11	4.0	ug/L		01/27/22 13:29	01/28/22 15:53	1
4-Chloro-3-methylphenol	ND		11	5.8	ug/L		01/27/22 13:29	01/28/22 15:53	1
4-Chloroaniline	ND		11	5.1	ug/L		01/27/22 13:29	01/28/22 15:53	1
4-Chlorophenyl phenyl ether	ND		11	4.3	ug/L		01/27/22 13:29	01/28/22 15:53	1
4-Nitroaniline	ND		11	4.5	ug/L		01/27/22 13:29	01/28/22 15:53	1
4-Nitrophenol	ND		11	3.6	ug/L		01/27/22 13:29	01/28/22 15:53	1
Acenaphthene	ND		11	4.8	ug/L		01/27/22 13:29	01/28/22 15:53	1
Acenaphthylene	ND		11	4.5	ug/L		01/27/22 13:29	01/28/22 15:53	1
Acetophenone	ND		11	5.6	ug/L		01/27/22 13:29	01/28/22 15:53	1
Aniline	ND		11	9.5	ug/L		01/27/22 13:29	01/28/22 15:53	1
Anthracene	ND		11	4.3	ug/L		01/27/22 13:29	01/28/22 15:53	1
Benzo[a]anthracene	ND		11	2.0	ug/L		01/27/22 13:29	01/28/22 15:53	1
Benzo[a]pyrene	ND		11	1.9	ug/L		01/27/22 13:29	01/28/22 15:53	1
Benzo[b]fluoranthene	ND		11	1.9	ug/L		01/27/22 13:29	01/28/22 15:53	1
Benzo[g,h,i]perylene	ND		11	3.4	ug/L		01/27/22 13:29	01/28/22 15:53	1
Benzo[k]fluoranthene	ND		11	1.9	ug/L		01/27/22 13:29	01/28/22 15:53	1
Benzoic acid	ND		33	26	ug/L		01/27/22 13:29	01/28/22 15:53	1
Benzyl alcohol	ND		11	8.0	ug/L		01/27/22 13:29	01/28/22 15:53	1
Bis(2-chloroethoxy)methane	ND		11	5.0	ug/L		01/27/22 13:29	01/28/22 15:53	1
Bis(2-chloroethyl)ether	ND		11	4.3	ug/L		01/27/22 13:29	01/28/22 15:53	1
Bis(2-ethylhexyl) phthalate	ND		11	9.7	ug/L		01/27/22 13:29	01/28/22 15:53	1
Butyl benzyl phthalate	ND		11	6.3	ug/L		01/27/22 13:29	01/28/22 15:53	1
Carbazole	ND		11	2.1	ug/L		01/27/22 13:29	01/28/22 15:53	1
Chrysene	ND		11	2.0	ug/L		01/27/22 13:29	01/28/22 15:53	1
Di-n-butyl phthalate	ND		11	5.0	ug/L		01/27/22 13:29	01/28/22 15:53	1
Di-n-octyl phthalate	ND		11	6.6	ug/L		01/27/22 13:29	01/28/22 15:53	1
Dibenz(a,h)anthracene	ND		11	3.0	ug/L		01/27/22 13:29	01/28/22 15:53	1
Dibenzofuran	ND		11	4.4	ug/L		01/27/22 13:29	01/28/22 15:53	1
Diethyl phthalate	ND		11	4.8	ug/L		01/27/22 13:29	01/28/22 15:53	1
Dimethyl phthalate	ND		11	4.6	ug/L		01/27/22 13:29	01/28/22 15:53	1
Fluoranthene	ND		11	4.5	ug/L		01/27/22 13:29	01/28/22 15:53	1
Fluorene	ND		11	5.1	ug/L		01/27/22 13:29	01/28/22 15:53	1
Hexachlorobenzene	ND		11	4.6	ug/L		01/27/22 13:29	01/28/22 15:53	1
Hexachlorobutadiene	ND		11	1.9	ug/L		01/27/22 13:29	01/28/22 15:53	1
Hexachlorocyclopentadiene	ND		22	4.9	ug/L		01/27/22 13:29	01/28/22 15:53	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

Client Sample ID: MW-3

Date Collected: 01/21/22 08:30
Date Received: 01/26/22 10:08

Lab Sample ID: 400-214561-3

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	ND		11	2.6	ug/L		01/27/22 13:29	01/28/22 15:53	1
Indeno[1,2,3-cd]pyrene	ND		11	3.2	ug/L		01/27/22 13:29	01/28/22 15:53	1
Isophorone	ND		11	5.7	ug/L		01/27/22 13:29	01/28/22 15:53	1
N-Nitrosodi-n-propylamine	ND		11	6.1	ug/L		01/27/22 13:29	01/28/22 15:53	1
N-Nitrosodimethylamine	ND		11	2.4	ug/L		01/27/22 13:29	01/28/22 15:53	1
N-Nitrosodiphenylamine	ND		11	4.0	ug/L		01/27/22 13:29	01/28/22 15:53	1
Naphthalene	ND		11	4.4	ug/L		01/27/22 13:29	01/28/22 15:53	1
Nitrobenzene	ND		11	5.1	ug/L		01/27/22 13:29	01/28/22 15:53	1
Pentachlorophenol	ND		22	4.0	ug/L		01/27/22 13:29	01/28/22 15:53	1
Phenanthrene	ND		11	3.4	ug/L		01/27/22 13:29	01/28/22 15:53	1
Phenol	ND		11	4.6	ug/L		01/27/22 13:29	01/28/22 15:53	1
Pyrene	ND		11	4.3	ug/L		01/27/22 13:29	01/28/22 15:53	1
Pyridine	ND		11	11	ug/L		01/27/22 13:29	01/28/22 15:53	1
1,2,4,5-Tetrachlorobenzene	ND		11	3.5	ug/L		01/27/22 13:29	01/28/22 15:53	1
1,2,4-Trichlorobenzene	ND		11	3.9	ug/L		01/27/22 13:29	01/28/22 15:53	1
1,2-Dichlorobenzene	ND		11	2.0	ug/L		01/27/22 13:29	01/28/22 15:53	1
2,4-Dinitrotoluene	ND		11	5.6	ug/L		01/27/22 13:29	01/28/22 15:53	1
2,6-Dinitrotoluene	ND		11	4.3	ug/L		01/27/22 13:29	01/28/22 15:53	1
Benzaldehyde	ND		11	1.9	ug/L		01/27/22 13:29	01/28/22 15:53	1
Atrazine	ND		11	2.2	ug/L		01/27/22 13:29	01/28/22 15:53	1
1,1'-Biphenyl	ND		11	3.3	ug/L		01/27/22 13:29	01/28/22 15:53	1
Caprolactam	**420**		11	2.4	ug/L		01/27/22 13:29	01/28/22 15:53	1
2,2'-oxybis[1-chloropropane]	ND		11	5.4	ug/L		01/27/22 13:29	01/28/22 15:53	1
Azobenzene	ND		11	1.4	ug/L		01/27/22 13:29	01/28/22 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*44*		*10 - 150*	*01/27/22 13:29*	*01/28/22 15:53*	*1*
2-Fluorophenol (Surr)	*30*		*10 - 105*	*01/27/22 13:29*	*01/28/22 15:53*	*1*
Nitrobenzene-d5 (Surr)	*30*		*16 - 127*	*01/27/22 13:29*	*01/28/22 15:53*	*1*
Phenol-d5 (Surr)	*23*		*10 - 129*	*01/27/22 13:29*	*01/28/22 15:53*	*1*
Terphenyl-d14 (Surr)	*49*		*13 - 150*	*01/27/22 13:29*	*01/28/22 15:53*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.025	0.020	mg/L		01/26/22 17:55	01/31/22 20:01	1
Arsenic	**0.12**		0.050	0.015	mg/L		01/26/22 17:55	01/31/22 20:01	1
Barium	**2.6**		0.050	0.015	mg/L		01/26/22 17:55	01/31/22 20:01	1
Beryllium	ND		0.015	0.0050	mg/L		01/26/22 17:55	01/31/22 20:01	1
Cadmium	ND	^+	0.025	0.010	mg/L		01/26/22 17:55	01/28/22 20:21	1
Cobalt	**0.26**		0.050	0.015	mg/L		01/26/22 17:55	01/31/22 20:01	1
Chromium	**1.1**		0.050	0.025	mg/L		01/26/22 17:55	01/31/22 20:01	1
Copper	**0.36**		0.10	0.085	mg/L		01/26/22 17:55	01/31/22 20:01	1
Molybdenum	ND		0.50	0.020	mg/L		01/26/22 17:55	01/31/22 20:01	1
Nickel	**2.3**		0.030	0.015	mg/L		01/26/22 17:55	01/31/22 20:01	1
Lead	**0.12**		0.050	0.010	mg/L		01/26/22 17:55	01/31/22 20:01	1
Antimony	ND		0.25	0.11	mg/L		01/26/22 17:55	01/31/22 20:01	1
Selenium	ND		0.10	0.040	mg/L		01/26/22 17:55	01/31/22 20:01	1
Thallium	ND		0.10	0.040	mg/L		01/26/22 17:55	01/31/22 20:01	1
Vanadium	**0.74**		0.10	0.035	mg/L		01/26/22 17:55	02/01/22 14:32	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

Client Sample ID: MW-3

Lab Sample ID: 400-214561-3

Date Collected: 01/21/22 08:30
Matrix: Water
Date Received: 01/26/22 10:08

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.91		0.10	0.040	mg/L		01/26/22 17:55	01/31/22 20:01	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.84		0.80	0.60	ug/L		01/28/22 09:49	01/30/22 16:40	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

Client Sample ID: TB-1

Date Collected: 01/21/22 07:30
Date Received: 01/26/22 10:08

Lab Sample ID: 400-214561-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.16	ug/L			01/29/22 15:32	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/29/22 15:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/29/22 15:32	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/29/22 15:32	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/29/22 15:32	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/29/22 15:32	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			01/29/22 15:32	1
1,2,3-Trichlorobenzene	ND		1.0	0.19	ug/L			01/29/22 15:32	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/29/22 15:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/30/22 11:00	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/29/22 15:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			01/29/22 15:32	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			01/29/22 15:32	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/29/22 15:32	1
1,2-Dichloroethane	ND		1.0	0.19	ug/L			01/29/22 15:32	1
1,2-Dichloroethene, Total	ND		1.0	0.50	ug/L			01/29/22 15:32	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/29/22 15:32	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/29/22 15:32	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/29/22 15:32	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/29/22 15:32	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/29/22 15:32	1
1,4-Dioxane	ND		400	200	ug/L			01/29/22 15:32	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/29/22 15:32	1
2-Butanone	ND		25	2.6	ug/L			01/29/22 15:32	1
2-Chlorotoluene	ND		1.0	0.57	ug/L			01/29/22 15:32	1
2-Hexanone	ND		25	1.4	ug/L			01/29/22 15:32	1
4-Chlorotoluene	ND		1.0	0.56	ug/L			01/29/22 15:32	1
4-Isopropyltoluene	ND		1.0	0.71	ug/L			01/29/22 15:32	1
4-Methyl-2-pentanone	ND		25	1.8	ug/L			01/29/22 15:32	1
Acetone	ND		25	10	ug/L			01/29/22 15:32	1
Benzene	ND		1.0	0.13	ug/L			01/29/22 15:32	1
Bromobenzene	ND		1.0	0.54	ug/L			01/29/22 15:32	1
Bromochloromethane	ND		1.0	0.21	ug/L			01/29/22 15:32	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/29/22 15:32	1
Bromoform	ND		5.0	0.25	ug/L			01/29/22 15:32	1
Bromomethane	ND		1.0	0.98	ug/L			01/29/22 15:32	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/29/22 15:32	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/29/22 15:32	1
Chlorobenzene	ND		1.0	0.15	ug/L			01/29/22 15:32	1
Chloroethane	ND		1.0	0.76	ug/L			01/29/22 15:32	1
Chloroform	ND		1.0	0.60	ug/L			01/29/22 15:32	1
Chloromethane	ND		1.0	0.32	ug/L			01/29/22 15:32	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/29/22 15:32	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/29/22 15:32	1
Cyclohexane	ND		1.0	0.50	ug/L			01/29/22 15:32	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/29/22 15:32	1
Dibromomethane	ND		5.0	0.22	ug/L			01/29/22 15:32	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/30/22 11:00	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

Client Sample ID: TB-1

Date Collected: 01/21/22 07:30
Date Received: 01/26/22 10:08

Lab Sample ID: 400-214561-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diisopropyl ether	ND		1.0	0.20	ug/L			01/29/22 15:32	1
Ethyl tert-butyl ether	ND		1.0	0.28	ug/L			01/29/22 15:32	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/29/22 15:32	1
Freon TF	ND		1.0	0.50	ug/L			01/29/22 15:32	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/29/22 15:32	1
Isobutyl alcohol	ND		25	10	ug/L			01/29/22 15:32	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/29/22 15:32	1
m&p-Xylene	ND		5.0	0.63	ug/L			01/29/22 15:32	1
Methyl acetate	ND		5.0	0.61	ug/L			01/29/22 15:32	1
Methyl iodide	ND		1.0	0.90	ug/L			01/29/22 15:32	1
Methyl t-butyl ether	ND		1.0	0.22	ug/L			01/29/22 15:32	1
Methylcyclohexane	ND		1.0	0.50	ug/L			01/29/22 15:32	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/29/22 15:32	1
Naphthalene	ND		1.0	1.0	ug/L			01/29/22 15:32	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/29/22 15:32	1
n-Propylbenzene	ND		1.0	0.69	ug/L			01/29/22 15:32	1
o-Xylene	ND		5.0	0.60	ug/L			01/29/22 15:32	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/29/22 15:32	1
Styrene	ND		1.0	1.0	ug/L			01/29/22 15:32	1
Tert-amyl methyl ether	ND		1.0	0.23	ug/L			01/29/22 15:32	1
tert-Butyl alcohol (TBA)	ND		10	4.9	ug/L			01/29/22 15:32	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/29/22 15:32	1
Tetrachloroethene	ND		1.0	0.12	ug/L			01/29/22 15:32	1
Tetrahydrofuran	**6.0**		5.0	1.5	ug/L			01/29/22 15:32	1
Toluene	ND		1.0	0.41	ug/L			01/29/22 15:32	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/29/22 15:32	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/29/22 15:32	1
Trichloroethene	ND		1.0	0.15	ug/L			01/29/22 15:32	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			01/29/22 15:32	1
Vinyl acetate	ND		25	0.93	ug/L			01/29/22 15:32	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/29/22 15:32	1
Xylenes, Total	ND		10	1.6	ug/L			01/29/22 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*72 - 119*		*01/29/22 15:32*	*1*
4-Bromofluorobenzene	*93*		*72 - 119*		*01/30/22 11:00*	*1*
Toluene-d8	*84*		*64 - 132*		*01/29/22 15:32*	*1*
Toluene-d8	*101*		*64 - 132*		*01/30/22 11:00*	*1*
Dibromofluoromethane	*103*		*75 - 126*		*01/29/22 15:32*	*1*
Dibromofluoromethane	*100*		*75 - 126*		*01/30/22 11:00*	*1*

Surrogate Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(72-119)	(64-132)	(75-126)
400-214561-1	MW-1	88	87	104
400-214561-1	MW-1	90	84	106
400-214561-1 MS	MW-1	94	89	104
400-214561-1 MSD	MW-1	94	89	106
400-214561-2	MW-2	88	82	106
400-214561-2	MW-2	92	101	99
400-214561-3	MW-3	89	82	106
400-214561-3	MW-3	89	86	108
400-214561-4	TB-1	89	84	103
400-214561-4	TB-1	93	101	100
LCS 400-564775/1002	Lab Control Sample	95	91	101
LCS 400-564811/1002	Lab Control Sample	94	100	92
LCS 400-564866/1002	Lab Control Sample	95	94	102
MB 400-564775/22	Method Blank	88	83	104
MB 400-564811/5	Method Blank	90	98	100
MB 400-564866/21	Method Blank	87	87	101

Surrogate Legend

BFB = 4-Bromofluorobenzene
TOL = Toluene-d8
DBFM = Dibromofluoromethane

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)				
		TBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(10-150)	(10-105)	(16-127)	(10-129)	(13-150)
400-214561-1	MW-1	52	32	35	27	58
400-214561-2	MW-2	43	31	29	26	47
400-214561-3	MW-3	44	30	30	23	49
LCS 400-564565/2-A	Lab Control Sample	62	48	59	41	60
LCSD 400-564565/3-A	Lab Control Sample Dup	59	48	56	42	56
MB 400-564565/1-A	Method Blank	52	43	46	34	58

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

QC Association Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

GC/MS VOA

Analysis Batch: 564775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214561-1	MW-1	Total/NA	Water	8260B	
400-214561-2	MW-2	Total/NA	Water	8260B	
400-214561-3	MW-3	Total/NA	Water	8260B	
400-214561-4	TB-1	Total/NA	Water	8260B	
MB 400-564775/22	Method Blank	Total/NA	Water	8260B	
LCS 400-564775/1002	Lab Control Sample	Total/NA	Water	8260B	
400-214561-1 MS	MW-1	Total/NA	Water	8260B	
400-214561-1 MSD	MW-1	Total/NA	Water	8260B	

Analysis Batch: 564811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214561-2	MW-2	Total/NA	Water	8260B	
400-214561-4	TB-1	Total/NA	Water	8260B	
MB 400-564811/5	Method Blank	Total/NA	Water	8260B	
LCS 400-564811/1002	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 564866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214561-1	MW-1	Total/NA	Water	8260B	
400-214561-3	MW-3	Total/NA	Water	8260B	
MB 400-564866/21	Method Blank	Total/NA	Water	8260B	
LCS 400-564866/1002	Lab Control Sample	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 564565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214561-1	MW-1	Total/NA	Water	3510C	
400-214561-2	MW-2	Total/NA	Water	3510C	
400-214561-3	MW-3	Total/NA	Water	3510C	
MB 400-564565/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-564565/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 400-564565/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 564672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214561-1	MW-1	Total/NA	Water	8270C	564565
400-214561-2	MW-2	Total/NA	Water	8270C	564565
400-214561-3	MW-3	Total/NA	Water	8270C	564565

Analysis Batch: 564711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-564565/1-A	Method Blank	Total/NA	Water	8270C	564565
LCS 400-564565/2-A	Lab Control Sample	Total/NA	Water	8270C	564565
LCSD 400-564565/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	564565

Metals

Prep Batch: 564446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214561-1	MW-1	Total/NA	Water	3010A	

Metals (Continued)

Prep Batch: 564446 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214561-2	MW-2	Total/NA	Water	3010A	
400-214561-3	MW-3	Total/NA	Water	3010A	
MB 400-564446/1-A	Method Blank	Total/NA	Water	3010A	
LCS 400-564446/2-A	Lab Control Sample	Total/NA	Water	3010A	

Prep Batch: 564653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214561-1	MW-1	Total/NA	Water	7470A	
400-214561-2	MW-2	Total/NA	Water	7470A	
400-214561-3	MW-3	Total/NA	Water	7470A	
MB 400-564653/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-564653/15-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 564832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214561-1	MW-1	Total/NA	Water	7470A	564653
400-214561-2	MW-2	Total/NA	Water	7470A	564653
400-214561-3	MW-3	Total/NA	Water	7470A	564653
MB 400-564653/14-A	Method Blank	Total/NA	Water	7470A	564653
LCS 400-564653/15-A	Lab Control Sample	Total/NA	Water	7470A	564653

Analysis Batch: 564858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214561-2	MW-2	Total/NA	Water	6010B	564446
400-214561-3	MW-3	Total/NA	Water	6010B	564446

Analysis Batch: 565009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214561-1	MW-1	Total/NA	Water	6010B	564446
400-214561-2	MW-2	Total/NA	Water	6010B	564446
400-214561-3	MW-3	Total/NA	Water	6010B	564446
MB 400-564446/1-A	Method Blank	Total/NA	Water	6010B	564446
LCS 400-564446/2-A	Lab Control Sample	Total/NA	Water	6010B	564446

Analysis Batch: 565108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214561-1	MW-1	Total/NA	Water	6010B	564446
400-214561-2	MW-2	Total/NA	Water	6010B	564446
400-214561-3	MW-3	Total/NA	Water	6010B	564446
MB 400-564446/1-A	Method Blank	Total/NA	Water	6010B	564446
LCS 400-564446/2-A	Lab Control Sample	Total/NA	Water	6010B	564446

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-564775/22
Matrix: Water
Analysis Batch: 564775

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.16	ug/L			01/29/22 11:41	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/29/22 11:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/29/22 11:41	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/29/22 11:41	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/29/22 11:41	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/29/22 11:41	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			01/29/22 11:41	1
1,2,3-Trichlorobenzene	ND		1.0	0.19	ug/L			01/29/22 11:41	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/29/22 11:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/29/22 11:41	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/29/22 11:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			01/29/22 11:41	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			01/29/22 11:41	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/29/22 11:41	1
1,2-Dichloroethane	ND		1.0	0.19	ug/L			01/29/22 11:41	1
1,2-Dichloroethene, Total	ND		1.0	0.50	ug/L			01/29/22 11:41	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/29/22 11:41	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/29/22 11:41	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/29/22 11:41	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/29/22 11:41	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/29/22 11:41	1
1,4-Dioxane	ND		400	200	ug/L			01/29/22 11:41	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/29/22 11:41	1
2-Butanone	ND		25	2.6	ug/L			01/29/22 11:41	1
2-Chlorotoluene	ND		1.0	0.57	ug/L			01/29/22 11:41	1
2-Hexanone	ND		25	1.4	ug/L			01/29/22 11:41	1
4-Chlorotoluene	ND		1.0	0.56	ug/L			01/29/22 11:41	1
4-Isopropyltoluene	ND		1.0	0.71	ug/L			01/29/22 11:41	1
4-Methyl-2-pentanone	ND		25	1.8	ug/L			01/29/22 11:41	1
Acetone	ND		25	10	ug/L			01/29/22 11:41	1
Benzene	ND		1.0	0.13	ug/L			01/29/22 11:41	1
Bromobenzene	ND		1.0	0.54	ug/L			01/29/22 11:41	1
Bromochloromethane	ND		1.0	0.21	ug/L			01/29/22 11:41	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/29/22 11:41	1
Bromoform	ND		5.0	0.25	ug/L			01/29/22 11:41	1
Bromomethane	ND		1.0	0.98	ug/L			01/29/22 11:41	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/29/22 11:41	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/29/22 11:41	1
Chlorobenzene	ND		1.0	0.15	ug/L			01/29/22 11:41	1
Chloroethane	ND		1.0	0.76	ug/L			01/29/22 11:41	1
Chloroform	ND		1.0	0.60	ug/L			01/29/22 11:41	1
Chloromethane	ND		1.0	0.32	ug/L			01/29/22 11:41	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/29/22 11:41	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/29/22 11:41	1
Cyclohexane	ND		1.0	0.50	ug/L			01/29/22 11:41	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/29/22 11:41	1
Dibromomethane	ND		5.0	0.22	ug/L			01/29/22 11:41	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-564775/22
Matrix: Water
Analysis Batch: 564775

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diisopropyl ether	ND		1.0	0.20	ug/L			01/29/22 11:41	1
Ethyl tert-butyl ether	ND		1.0	0.28	ug/L			01/29/22 11:41	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/29/22 11:41	1
Freon TF	ND		1.0	0.50	ug/L			01/29/22 11:41	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/29/22 11:41	1
Isobutyl alcohol	ND		25	10	ug/L			01/29/22 11:41	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/29/22 11:41	1
m&p-Xylene	ND		5.0	0.63	ug/L			01/29/22 11:41	1
Methyl acetate	ND		5.0	0.61	ug/L			01/29/22 11:41	1
Methyl iodide	ND		1.0	0.90	ug/L			01/29/22 11:41	1
Methyl t-butyl ether	ND		1.0	0.22	ug/L			01/29/22 11:41	1
Methylcyclohexane	ND		1.0	0.50	ug/L			01/29/22 11:41	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/29/22 11:41	1
Naphthalene	ND		1.0	1.0	ug/L			01/29/22 11:41	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/29/22 11:41	1
n-Propylbenzene	ND		1.0	0.69	ug/L			01/29/22 11:41	1
o-Xylene	ND		5.0	0.60	ug/L			01/29/22 11:41	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/29/22 11:41	1
Styrene	ND		1.0	1.0	ug/L			01/29/22 11:41	1
Tert-amyl methyl ether	ND		1.0	0.23	ug/L			01/29/22 11:41	1
tert-Butyl alcohol (TBA)	ND		10	4.9	ug/L			01/29/22 11:41	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/29/22 11:41	1
Tetrachloroethene	ND		1.0	0.12	ug/L			01/29/22 11:41	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			01/29/22 11:41	1
Toluene	ND		1.0	0.41	ug/L			01/29/22 11:41	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/29/22 11:41	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/29/22 11:41	1
Trichloroethene	ND		1.0	0.15	ug/L			01/29/22 11:41	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			01/29/22 11:41	1
Vinyl acetate	ND		25	0.93	ug/L			01/29/22 11:41	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/29/22 11:41	1
Xylenes, Total	ND		10	1.6	ug/L			01/29/22 11:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*72 - 119*		*01/29/22 11:41*	*1*
Toluene-d8	*83*		*64 - 132*		*01/29/22 11:41*	*1*
Dibromofluoromethane	*104*		*75 - 126*		*01/29/22 11:41*	*1*

Lab Sample ID: LCS 400-564775/1002
Matrix: Water
Analysis Batch: 564775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	49.2		ug/L		98	67 - 131
1,1,1-Trichloroethane	50.0	48.3		ug/L		97	68 - 130
1,1,2,2-Tetrachloroethane	50.0	39.7		ug/L		79	70 - 131
1,1,2-Trichloroethane	50.0	41.3		ug/L		83	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-564775/1002
Matrix: Water
Analysis Batch: 564775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	50.0	44.9		ug/L		90	70 - 130
1,1-Dichloroethene	50.0	47.9		ug/L		96	63 - 134
1,1-Dichloropropene	50.0	46.6		ug/L		93	70 - 130
1,2,3-Trichlorobenzene	50.0	43.9		ug/L		88	60 - 138
1,2,3-Trichloropropane	50.0	39.0		ug/L		78	70 - 130
1,2,4-Trichlorobenzene	50.0	45.1		ug/L		90	60 - 140
1,2,4-Trimethylbenzene	50.0	42.0		ug/L		84	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	43.2		ug/L		86	54 - 135
1,2-Dibromoethane	50.0	42.6		ug/L		85	70 - 130
1,2-Dichlorobenzene	50.0	43.4		ug/L		87	67 - 130
1,2-Dichloroethane	50.0	42.6		ug/L		85	69 - 130
1,2-Dichloropropane	50.0	46.6		ug/L		93	70 - 130
1,3,5-Trimethylbenzene	50.0	42.1		ug/L		84	69 - 130
1,3-Dichlorobenzene	50.0	44.1		ug/L		88	70 - 130
1,3-Dichloropropane	50.0	41.5		ug/L		83	70 - 130
1,4-Dichlorobenzene	50.0	44.8		ug/L		90	70 - 130
1,4-Dioxane	1000	873		ug/L		87	50 - 160
2,2-Dichloropropane	50.0	45.9		ug/L		92	52 - 135
2-Butanone	200	161		ug/L		80	61 - 145
2-Chlorotoluene	50.0	41.0		ug/L		82	70 - 130
2-Hexanone	200	132		ug/L		66	65 - 137
4-Chlorotoluene	50.0	41.6		ug/L		83	70 - 130
4-Isopropyltoluene	50.0	43.0		ug/L		86	65 - 130
4-Methyl-2-pentanone	200	156		ug/L		78	69 - 138
Acetone	200	122		ug/L		61	43 - 160
Benzene	50.0	46.8		ug/L		94	70 - 130
Bromobenzene	50.0	45.1		ug/L		90	70 - 132
Bromochloromethane	50.0	47.8		ug/L		96	70 - 130
Bromodichloromethane	50.0	46.7		ug/L		93	67 - 133
Bromoform	50.0	48.2		ug/L		96	57 - 140
Bromomethane	50.0	58.8		ug/L		118	10 - 160
Carbon disulfide	50.0	44.5		ug/L		89	61 - 137
Carbon tetrachloride	50.0	46.8		ug/L		94	61 - 137
Chlorobenzene	50.0	45.2		ug/L		90	70 - 130
Chloroethane	50.0	53.3		ug/L		107	55 - 141
Chloroform	50.0	46.2		ug/L		92	69 - 130
Chloromethane	50.0	36.5		ug/L		73	58 - 137
cis-1,2-Dichloroethene	50.0	45.0		ug/L		90	68 - 130
cis-1,3-Dichloropropene	50.0	45.8		ug/L		92	69 - 132
Cyclohexane	50.0	45.6		ug/L		91	70 - 130
Dibromochloromethane	50.0	47.9		ug/L		96	67 - 135
Dibromomethane	50.0	47.9		ug/L		96	70 - 130
Diisopropyl ether	50.0	50.8		ug/L		102	64 - 132
Ethyl tert-butyl ether	50.0	55.5		ug/L		111	55 - 133
Ethylbenzene	50.0	44.1		ug/L		88	70 - 130
Freon TF	50.0	45.8		ug/L		92	60 - 139
Hexachlorobutadiene	50.0	44.9		ug/L		90	53 - 140
Isobutyl alcohol	1250	1110		ug/L		89	52 - 148

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-564775/1002
Matrix: Water
Analysis Batch: 564775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	50.0	45.4		ug/L		91	70 - 130
m&p-Xylene	50.0	42.8		ug/L		86	70 - 130
Methyl acetate	100	83.1		ug/L		83	45 - 159
Methyl iodide	50.0	57.8		ug/L		116	27 - 159
Methyl t-butyl ether	50.0	43.9		ug/L		88	66 - 130
Methylcyclohexane	50.0	49.0		ug/L		98	70 - 130
Methylene Chloride	50.0	48.6		ug/L		97	66 - 135
Naphthalene	50.0	39.7		ug/L		79	47 - 149
n-Butylbenzene	50.0	43.3		ug/L		87	67 - 130
n-Propylbenzene	50.0	45.5		ug/L		91	70 - 130
o-Xylene	50.0	42.4		ug/L		85	70 - 130
sec-Butylbenzene	50.0	42.8		ug/L		86	66 - 130
Styrene	50.0	45.3		ug/L		91	70 - 130
Tert-amyl methyl ether	50.0	51.2		ug/L		102	52 - 132
tert-Butyl alcohol (TBA)	500	436		ug/L		87	46 - 143
tert-Butylbenzene	50.0	40.0		ug/L		80	64 - 139
Tetrachloroethene	50.0	45.1		ug/L		90	65 - 130
Tetrahydrofuran	100	85.2		ug/L		85	59 - 145
Toluene	50.0	42.2		ug/L		84	70 - 130
trans-1,2-Dichloroethene	50.0	49.3		ug/L		99	70 - 130
trans-1,3-Dichloropropene	50.0	41.4		ug/L		83	63 - 130
Trichloroethene	50.0	51.2		ug/L		102	70 - 130
Trichlorofluoromethane	50.0	48.4		ug/L		97	65 - 138
Vinyl acetate	100	126		ug/L		126	26 - 160
Vinyl chloride	50.0	40.5		ug/L		81	59 - 136

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*72 - 119*
Toluene-d8	*91*		*64 - 132*
Dibromofluoromethane	*101*		*75 - 126*

Lab Sample ID: 400-214561-1 MS
Matrix: Water
Analysis Batch: 564775

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		50.0	50.4		ug/L		101	59 - 137
1,1,1-Trichloroethane	ND		50.0	49.5		ug/L		99	57 - 142
1,1,2,2-Tetrachloroethane	ND		50.0	42.6		ug/L		85	66 - 135
1,1,2-Trichloroethane	ND		50.0	43.9		ug/L		88	66 - 131
1,1-Dichloroethane	ND		50.0	47.6		ug/L		95	61 - 144
1,1-Dichloroethene	ND		50.0	50.1		ug/L		100	54 - 147
1,1-Dichloropropene	ND		50.0	48.5		ug/L		97	65 - 136
1,2,3-Trichlorobenzene	ND		50.0	44.7		ug/L		89	43 - 145
1,2,3-Trichloropropane	ND		50.0	44.1		ug/L		88	65 - 133
1,2,4-Trichlorobenzene	ND		50.0	52.1		ug/L		104	39 - 148
1,2,4-Trimethylbenzene	ND		50.0	41.8		ug/L		84	50 - 139

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-214561-1 MS
Matrix: Water
Analysis Batch: 564775

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND		50.0	47.4		ug/L		95	45 - 135
1,2-Dibromoethane	ND		50.0	46.6		ug/L		93	64 - 132
1,2-Dichlorobenzene	ND		50.0	43.7		ug/L		87	52 - 137
1,2-Dichloroethane	ND		50.0	47.0		ug/L		94	60 - 141
1,2-Dichloropropane	ND		50.0	49.9		ug/L		100	66 - 137
1,3,5-Trimethylbenzene	ND		50.0	41.6		ug/L		83	52 - 135
1,3-Dichlorobenzene	ND		50.0	44.0		ug/L		88	54 - 135
1,3-Dichloropropane	ND		50.0	45.2		ug/L		90	66 - 133
1,4-Dichlorobenzene	ND		50.0	44.9		ug/L		90	53 - 135
1,4-Dioxane	ND		1000	881		ug/L		88	10 - 150
2,2-Dichloropropane	ND		50.0	47.8		ug/L		96	42 - 144
2-Butanone	ND		200	181		ug/L		91	55 - 150
2-Chlorotoluene	ND		50.0	40.7		ug/L		81	53 - 134
2-Hexanone	ND		200	146		ug/L		73	65 - 140
4-Chlorotoluene	ND		50.0	41.0		ug/L		82	54 - 133
4-Isopropyltoluene	ND		50.0	41.8		ug/L		84	48 - 139
4-Methyl-2-pentanone	ND		200	179		ug/L		90	63 - 146
Acetone	ND		200	135		ug/L		68	43 - 150
Benzene	ND		50.0	49.3		ug/L		99	56 - 142
Bromobenzene	ND		50.0	44.6		ug/L		89	59 - 136
Bromochloromethane	ND		50.0	51.3		ug/L		103	64 - 140
Bromodichloromethane	ND		50.0	50.6		ug/L		101	59 - 143
Bromoform	ND		50.0	51.7		ug/L		103	50 - 140
Bromomethane	ND		50.0	49.4		ug/L		99	10 - 150
Carbon disulfide	ND		50.0	46.3		ug/L		93	48 - 150
Carbon tetrachloride	ND		50.0	49.1		ug/L		98	55 - 145
Chlorobenzene	ND		50.0	46.8		ug/L		94	64 - 130
Chloroethane	ND		50.0	43.0		ug/L		86	50 - 150
Chloroform	ND		50.0	48.4		ug/L		97	60 - 141
Chloromethane	ND		50.0	28.7		ug/L		57	49 - 148
cis-1,2-Dichloroethene	ND		50.0	47.8		ug/L		96	59 - 143
cis-1,3-Dichloropropene	ND		50.0	52.6		ug/L		105	57 - 140
Cyclohexane	ND		50.0	47.1		ug/L		94	58 - 141
Dibromochloromethane	ND		50.0	50.8		ug/L		102	56 - 143
Dibromomethane	ND		50.0	52.9		ug/L		106	63 - 138
Diisopropyl ether	ND		50.0	54.2		ug/L		108	60 - 144
Ethyl tert-butyl ether	ND		50.0	56.9		ug/L		114	49 - 137
Ethylbenzene	ND		50.0	44.6		ug/L		89	58 - 131
Freon TF	ND		50.0	46.6		ug/L		93	55 - 150
Hexachlorobutadiene	ND		50.0	41.5		ug/L		83	31 - 149
Isobutyl alcohol	ND		1250	1250		ug/L		100	41 - 150
Isopropylbenzene	ND		50.0	45.2		ug/L		90	56 - 133
m&p-Xylene	ND		50.0	43.9		ug/L		88	57 - 130
Methyl acetate	ND		100	96.2		ug/L		96	21 - 150
Methyl iodide	ND		50.0	58.1		ug/L		116	20 - 150
Methyl t-butyl ether	ND		50.0	47.4		ug/L		95	59 - 137
Methylcyclohexane	ND		50.0	49.7		ug/L		99	62 - 141
Methylene Chloride	ND		50.0	51.3		ug/L		103	60 - 146

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-214561-1 MS
Matrix: Water
Analysis Batch: 564775

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	ND		50.0	45.0		ug/L		90	25 - 150
n-Butylbenzene	ND		50.0	41.4		ug/L		83	41 - 142
n-Propylbenzene	ND		50.0	43.4		ug/L		87	51 - 138
o-Xylene	ND		50.0	43.3		ug/L		87	61 - 130
sec-Butylbenzene	ND		50.0	41.4		ug/L		83	50 - 138
Styrene	ND		50.0	52.3		ug/L		105	58 - 131
Tert-amyl methyl ether	ND		50.0	53.7		ug/L		107	43 - 140
tert-Butyl alcohol (TBA)	ND		500	487		ug/L		97	31 - 150
tert-Butylbenzene	ND		50.0	39.6		ug/L		79	54 - 146
Tetrachloroethene	ND		50.0	44.2		ug/L		88	52 - 133
Tetrahydrofuran	ND		100	98.4		ug/L		98	56 - 145
Toluene	ND		50.0	43.0		ug/L		86	65 - 130
trans-1,2-Dichloroethene	ND		50.0	51.5		ug/L		103	61 - 143
trans-1,3-Dichloropropene	ND		50.0	43.9		ug/L		88	53 - 133
Trichloroethene	ND		50.0	54.0		ug/L		108	64 - 136
Trichlorofluoromethane	ND		50.0	38.3		ug/L		77	54 - 150
Vinyl acetate	ND		100	111		ug/L		111	26 - 150
Vinyl chloride	ND		50.0	32.6		ug/L		65	46 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*72 - 119*
Toluene-d8	*89*		*64 - 132*
Dibromofluoromethane	*104*		*75 - 126*

Lab Sample ID: 400-214561-1 MSD
Matrix: Water
Analysis Batch: 564775

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		50.0	57.5		ug/L		115	59 - 137	13	30
1,1,1-Trichloroethane	ND		50.0	58.8		ug/L		118	57 - 142	17	30
1,1,2,2-Tetrachloroethane	ND		50.0	50.4		ug/L		101	66 - 135	17	30
1,1,2-Trichloroethane	ND		50.0	51.3		ug/L		103	66 - 131	15	30
1,1-Dichloroethane	ND		50.0	55.9		ug/L		112	61 - 144	16	30
1,1-Dichloroethene	ND		50.0	58.7		ug/L		117	54 - 147	16	30
1,1-Dichloropropene	ND		50.0	56.9		ug/L		114	65 - 136	16	30
1,2,3-Trichlorobenzene	ND		50.0	50.5		ug/L		101	43 - 145	12	30
1,2,3-Trichloropropane	ND		50.0	49.6		ug/L		99	65 - 133	12	30
1,2,4-Trichlorobenzene	ND		50.0	50.8		ug/L		102	39 - 148	3	30
1,2,4-Trimethylbenzene	ND		50.0	45.3		ug/L		91	50 - 139	8	30
1,2-Dibromo-3-Chloropropane	ND		50.0	56.0		ug/L		112	45 - 135	17	30
1,2-Dibromoethane	ND		50.0	53.4		ug/L		107	64 - 132	14	30
1,2-Dichlorobenzene	ND		50.0	48.4		ug/L		97	52 - 137	10	30
1,2-Dichloroethane	ND		50.0	56.2		ug/L		112	60 - 141	18	30
1,2-Dichloropropane	ND		50.0	58.1		ug/L		116	66 - 137	15	30
1,3,5-Trimethylbenzene	ND		50.0	45.3		ug/L		91	52 - 135	9	30
1,3-Dichlorobenzene	ND		50.0	47.9		ug/L		96	54 - 135	8	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-214561-1 MSD
Matrix: Water
Analysis Batch: 564775

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3-Dichloropropane	ND		50.0	52.2		ug/L		104	66 - 133	14	30
1,4-Dichlorobenzene	ND		50.0	49.2		ug/L		98	53 - 135	9	30
1,4-Dioxane	ND		1000	968		ug/L		97	10 - 150	9	50
2,2-Dichloropropane	ND		50.0	56.3		ug/L		113	42 - 144	16	31
2-Butanone	ND		200	219		ug/L		109	55 - 150	19	30
2-Chlorotoluene	ND		50.0	42.9		ug/L		86	53 - 134	5	30
2-Hexanone	ND		200	175		ug/L		87	65 - 140	18	30
4-Chlorotoluene	ND		50.0	45.3		ug/L		91	54 - 133	10	30
4-Isopropyltoluene	ND		50.0	45.0		ug/L		90	48 - 139	7	30
4-Methyl-2-pentanone	ND		200	232		ug/L		116	63 - 146	26	30
Acetone	ND		200	162		ug/L		81	43 - 150	18	30
Benzene	ND		50.0	58.4		ug/L		117	56 - 142	17	30
Bromobenzene	ND		50.0	50.0		ug/L		100	59 - 136	11	30
Bromochloromethane	ND		50.0	60.5		ug/L		121	64 - 140	16	30
Bromodichloromethane	ND		50.0	59.5		ug/L		119	59 - 143	16	30
Bromoform	ND		50.0	60.5		ug/L		121	50 - 140	16	30
Bromomethane	ND		50.0	52.7		ug/L		105	10 - 150	6	50
Carbon disulfide	ND		50.0	55.2		ug/L		110	48 - 150	17	30
Carbon tetrachloride	ND		50.0	57.7		ug/L		115	55 - 145	16	30
Chlorobenzene	ND		50.0	52.8		ug/L		106	64 - 130	12	30
Chloroethane	ND		50.0	44.0		ug/L		88	50 - 150	2	30
Chloroform	ND		50.0	56.3		ug/L		113	60 - 141	15	30
Chloromethane	ND		50.0	29.5		ug/L		59	49 - 148	3	31
cis-1,2-Dichloroethene	ND		50.0	56.3		ug/L		113	59 - 143	16	30
cis-1,3-Dichloropropene	ND		50.0	62.3		ug/L		125	57 - 140	17	30
Cyclohexane	ND		50.0	54.3		ug/L		109	58 - 141	14	30
Dibromochloromethane	ND		50.0	59.2		ug/L		118	56 - 143	15	30
Dibromomethane	ND		50.0	62.3		ug/L		125	63 - 138	16	30
Diisopropyl ether	ND		50.0	50.1		ug/L		100	60 - 144	8	30
Ethyl tert-butyl ether	ND		50.0	53.0		ug/L		106	49 - 137	7	30
Ethylbenzene	ND		50.0	49.2		ug/L		98	58 - 131	10	30
Freon TF	ND		50.0	56.7		ug/L		113	55 - 150	20	30
Hexachlorobutadiene	ND		50.0	44.5		ug/L		89	31 - 149	7	36
Isobutyl alcohol	ND		1250	1420		ug/L		113	41 - 150	13	40
Isopropylbenzene	ND		50.0	49.9		ug/L		100	56 - 133	10	30
m&p-Xylene	ND		50.0	47.5		ug/L		95	57 - 130	8	30
Methyl acetate	ND		100	113		ug/L		113	21 - 150	16	30
Methyl iodide	ND		50.0	69.7		ug/L		139	20 - 150	18	44
Methyl t-butyl ether	ND		50.0	55.6		ug/L		111	59 - 137	16	30
Methylcyclohexane	ND		50.0	57.5		ug/L		115	62 - 141	15	30
Methylene Chloride	ND		50.0	62.0		ug/L		124	60 - 146	19	32
Naphthalene	ND		50.0	50.6		ug/L		101	25 - 150	12	30
n-Butylbenzene	ND		50.0	42.6		ug/L		85	41 - 142	3	31
n-Propylbenzene	ND		50.0	47.7		ug/L		95	51 - 138	9	30
o-Xylene	ND		50.0	47.9		ug/L		96	61 - 130	10	30
sec-Butylbenzene	ND		50.0	44.9		ug/L		90	50 - 138	8	30
Styrene	ND		50.0	52.7		ug/L		105	58 - 131	1	30
Tert-amyl methyl ether	ND		50.0	50.0		ug/L		100	43 - 140	7	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-214561-1 MSD
Matrix: Water
Analysis Batch: 564775

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
tert-Butyl alcohol (TBA)	ND		500	508		ug/L		102	31 - 150	4	42
tert-Butylbenzene	ND		50.0	42.4		ug/L		85	54 - 146	7	30
Tetrachloroethene	ND		50.0	50.3		ug/L		101	52 - 133	13	30
Tetrahydrofuran	ND		100	119		ug/L		119	56 - 145	19	34
Toluene	ND		50.0	49.3		ug/L		99	65 - 130	14	30
trans-1,2-Dichloroethene	ND		50.0	61.0		ug/L		122	61 - 143	17	30
trans-1,3-Dichloropropene	ND		50.0	51.5		ug/L		103	53 - 133	16	30
Trichloroethene	ND		50.0	63.1		ug/L		126	64 - 136	15	30
Trichlorofluoromethane	ND		50.0	39.3		ug/L		79	54 - 150	3	30
Vinyl acetate	ND		100	112		ug/L		112	26 - 150	1	33
Vinyl chloride	ND		50.0	33.2		ug/L		66	46 - 150	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*72 - 119*
Toluene-d8	*89*		*64 - 132*
Dibromofluoromethane	*106*		*75 - 126*

Lab Sample ID: MB 400-564811/5
Matrix: Water
Analysis Batch: 564811

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/30/22 10:38	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/30/22 10:38	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			01/30/22 10:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*72 - 119*		*01/30/22 10:38*	*1*
Toluene-d8	*98*		*64 - 132*		*01/30/22 10:38*	*1*
Dibromofluoromethane	*100*		*75 - 126*		*01/30/22 10:38*	*1*

Lab Sample ID: LCS 400-564811/1002
Matrix: Water
Analysis Batch: 564811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	50.0	47.1		ug/L		94	60 - 140
Dichlorodifluoromethane	50.0	51.1		ug/L		102	41 - 146

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*72 - 119*
Toluene-d8	*100*		*64 - 132*
Dibromofluoromethane	*92*		*75 - 126*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-564866/21
Matrix: Water
Analysis Batch: 564866

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/31/22 11:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*87*		*72 - 119*		*01/31/22 11:34*	*1*
Toluene-d8	*87*		*64 - 132*		*01/31/22 11:34*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*01/31/22 11:34*	*1*

Lab Sample ID: LCS 400-564866/1002
Matrix: Water
Analysis Batch: 564866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	50.0	49.2		ug/L		98	41 - 146

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*72 - 119*
Toluene-d8	*94*		*64 - 132*
Dibromofluoromethane	*102*		*75 - 126*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-564565/1-A
Matrix: Water
Analysis Batch: 564711

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564565

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		10	3.9	ug/L		01/27/22 13:28	01/28/22 16:28	1
1,4-Dichlorobenzene	ND		10	1.9	ug/L		01/27/22 13:28	01/28/22 16:28	1
1-Methylnaphthalene	ND		10	3.8	ug/L		01/27/22 13:28	01/28/22 16:28	1
2,3,4,6-Tetrachlorophenol	ND		10	5.0	ug/L		01/27/22 13:28	01/28/22 16:28	1
2,4,5-Trichlorophenol	ND		10	4.0	ug/L		01/27/22 13:28	01/28/22 16:28	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		01/27/22 13:28	01/28/22 16:28	1
2,4-Dichlorophenol	ND		10	4.3	ug/L		01/27/22 13:28	01/28/22 16:28	1
2,4-Dimethylphenol	ND		10	5.2	ug/L		01/27/22 13:28	01/28/22 16:28	1
2,4-Dinitrophenol	ND		30	4.6	ug/L		01/27/22 13:28	01/28/22 16:28	1
2-Chloronaphthalene	ND		10	3.8	ug/L		01/27/22 13:28	01/28/22 16:28	1
2-Chlorophenol	ND		10	4.1	ug/L		01/27/22 13:28	01/28/22 16:28	1
2-Methylnaphthalene	ND		10	4.6	ug/L		01/27/22 13:28	01/28/22 16:28	1
2-Methylphenol	ND		10	6.9	ug/L		01/27/22 13:28	01/28/22 16:28	1
2-Nitroaniline	ND		10	5.0	ug/L		01/27/22 13:28	01/28/22 16:28	1
2-Nitrophenol	ND		10	4.6	ug/L		01/27/22 13:28	01/28/22 16:28	1
3 & 4 Methylphenol	ND		20	4.6	ug/L		01/27/22 13:28	01/28/22 16:28	1
3,3'-Dichlorobenzidine	ND		11	11	ug/L		01/27/22 13:28	01/28/22 16:28	1
3-Nitroaniline	ND		10	4.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
4,6-Dinitro-2-methylphenol	ND		10	10	ug/L		01/27/22 13:28	01/28/22 16:28	1
4-Bromophenyl phenyl ether	ND		10	3.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
4-Chloro-3-methylphenol	ND		10	5.3	ug/L		01/27/22 13:28	01/28/22 16:28	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-564565/1-A
Matrix: Water
Analysis Batch: 564711

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564565

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		10	4.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
4-Chlorophenyl phenyl ether	ND		10	3.9	ug/L		01/27/22 13:28	01/28/22 16:28	1
4-Nitroaniline	ND		10	4.1	ug/L		01/27/22 13:28	01/28/22 16:28	1
4-Nitrophenol	ND		10	3.3	ug/L		01/27/22 13:28	01/28/22 16:28	1
Acenaphthene	ND		10	4.4	ug/L		01/27/22 13:28	01/28/22 16:28	1
Acenaphthylene	ND		10	4.1	ug/L		01/27/22 13:28	01/28/22 16:28	1
Acetophenone	ND		10	5.1	ug/L		01/27/22 13:28	01/28/22 16:28	1
Aniline	ND		10	8.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
Anthracene	ND		10	3.9	ug/L		01/27/22 13:28	01/28/22 16:28	1
Benzo[a]anthracene	ND		10	1.8	ug/L		01/27/22 13:28	01/28/22 16:28	1
Benzo[a]pyrene	ND		10	1.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
Benzo[b]fluoranthene	ND		10	1.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
Benzo[g,h,i]perylene	ND		10	3.1	ug/L		01/27/22 13:28	01/28/22 16:28	1
Benzo[k]fluoranthene	ND		10	1.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
Benzoic acid	ND		30	24	ug/L		01/27/22 13:28	01/28/22 16:28	1
Benzyl alcohol	ND		10	7.3	ug/L		01/27/22 13:28	01/28/22 16:28	1
Bis(2-chloroethoxy)methane	ND		10	4.6	ug/L		01/27/22 13:28	01/28/22 16:28	1
Bis(2-chloroethyl)ether	ND		10	3.9	ug/L		01/27/22 13:28	01/28/22 16:28	1
Bis(2-ethylhexyl) phthalate	ND		10	8.9	ug/L		01/27/22 13:28	01/28/22 16:28	1
Butyl benzyl phthalate	ND		10	5.8	ug/L		01/27/22 13:28	01/28/22 16:28	1
Carbazole	ND		10	1.9	ug/L		01/27/22 13:28	01/28/22 16:28	1
Chrysene	ND		10	1.8	ug/L		01/27/22 13:28	01/28/22 16:28	1
Di-n-butyl phthalate	ND		10	4.6	ug/L		01/27/22 13:28	01/28/22 16:28	1
Di-n-octyl phthalate	ND		10	6.0	ug/L		01/27/22 13:28	01/28/22 16:28	1
Dibenz(a,h)anthracene	ND		10	2.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
Dibenzofuran	ND		10	4.0	ug/L		01/27/22 13:28	01/28/22 16:28	1
Diethyl phthalate	ND		10	4.4	ug/L		01/27/22 13:28	01/28/22 16:28	1
Dimethyl phthalate	ND		10	4.2	ug/L		01/27/22 13:28	01/28/22 16:28	1
Fluoranthene	ND		10	4.1	ug/L		01/27/22 13:28	01/28/22 16:28	1
Fluorene	ND		10	4.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
Hexachlorobenzene	ND		10	4.2	ug/L		01/27/22 13:28	01/28/22 16:28	1
Hexachlorobutadiene	ND		10	1.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
Hexachlorocyclopentadiene	ND		20	4.5	ug/L		01/27/22 13:28	01/28/22 16:28	1
Hexachloroethane	ND		10	2.4	ug/L		01/27/22 13:28	01/28/22 16:28	1
Indeno[1,2,3-cd]pyrene	ND		10	2.9	ug/L		01/27/22 13:28	01/28/22 16:28	1
Isophorone	ND		10	5.2	ug/L		01/27/22 13:28	01/28/22 16:28	1
N-Nitrosodi-n-propylamine	ND		10	5.6	ug/L		01/27/22 13:28	01/28/22 16:28	1
N-Nitrosodimethylamine	ND		10	2.2	ug/L		01/27/22 13:28	01/28/22 16:28	1
N-Nitrosodiphenylamine	ND		10	3.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
Naphthalene	ND		10	4.0	ug/L		01/27/22 13:28	01/28/22 16:28	1
Nitrobenzene	ND		10	4.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
Pentachlorophenol	ND		20	3.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
Phenanthrene	ND		10	3.1	ug/L		01/27/22 13:28	01/28/22 16:28	1
Phenol	ND		10	4.2	ug/L		01/27/22 13:28	01/28/22 16:28	1
Pyrene	ND		10	3.9	ug/L		01/27/22 13:28	01/28/22 16:28	1
Pyridine	ND		10	10	ug/L		01/27/22 13:28	01/28/22 16:28	1
1,2,4,5-Tetrachlorobenzene	ND		10	3.2	ug/L		01/27/22 13:28	01/28/22 16:28	1
1,2,4-Trichlorobenzene	ND		10	3.6	ug/L		01/27/22 13:28	01/28/22 16:28	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-564565/1-A
Matrix: Water
Analysis Batch: 564711

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564565

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		10	1.8	ug/L		01/27/22 13:28	01/28/22 16:28	1
2,4-Dinitrotoluene	ND		10	5.1	ug/L		01/27/22 13:28	01/28/22 16:28	1
2,6-Dinitrotoluene	ND		10	3.9	ug/L		01/27/22 13:28	01/28/22 16:28	1
Benzaldehyde	ND		10	1.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
Atrazine	ND		10	2.0	ug/L		01/27/22 13:28	01/28/22 16:28	1
1,1'-Biphenyl	ND		10	3.0	ug/L		01/27/22 13:28	01/28/22 16:28	1
Caprolactam	ND		10	2.2	ug/L		01/27/22 13:28	01/28/22 16:28	1
2,2'-oxybis[1-chloropropane]	ND		10	4.9	ug/L		01/27/22 13:28	01/28/22 16:28	1
Azobenzene	ND		10	1.3	ug/L		01/27/22 13:28	01/28/22 16:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*52*		*10 - 150*	*01/27/22 13:28*	*01/28/22 16:28*	*1*
2-Fluorophenol (Surr)	*43*		*10 - 105*	*01/27/22 13:28*	*01/28/22 16:28*	*1*
Nitrobenzene-d5 (Surr)	*46*		*16 - 127*	*01/27/22 13:28*	*01/28/22 16:28*	*1*
Phenol-d5 (Surr)	*34*		*10 - 129*	*01/27/22 13:28*	*01/28/22 16:28*	*1*
Terphenyl-d14 (Surr)	*58*		*13 - 150*	*01/27/22 13:28*	*01/28/22 16:28*	*1*

Lab Sample ID: LCS 400-564565/2-A
Matrix: Water
Analysis Batch: 564711

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564565

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	120	62.9		ug/L		52	18 - 118
1,4-Dichlorobenzene	120	62.3		ug/L		52	16 - 125
1-Methylnaphthalene	120	74.1		ug/L		62	28 - 129
2,3,4,6-Tetrachlorophenol	120	79.8		ug/L		66	27 - 150
2,4,5-Trichlorophenol	120	81.4		ug/L		68	30 - 144
2,4,6-Trichlorophenol	120	76.6		ug/L		64	27 - 147
2,4-Dichlorophenol	120	77.2		ug/L		64	33 - 132
2,4-Dimethylphenol	120	72.2		ug/L		60	38 - 132
2,4-Dinitrophenol	240	191		ug/L		80	15 - 150
2-Chloronaphthalene	120	72.8		ug/L		61	24 - 132
2-Chlorophenol	120	71.4		ug/L		59	27 - 124
2-Methylnaphthalene	120	73.3		ug/L		61	28 - 129
2-Methylphenol	120	74.3		ug/L		62	34 - 124
2-Nitroaniline	120	79.3		ug/L		66	24 - 139
2-Nitrophenol	120	76.5		ug/L		64	25 - 148
3 & 4 Methylphenol	120	72.1		ug/L		60	32 - 122
3,3'-Dichlorobenzidine	240	109		ug/L		46	10 - 150
3-Nitroaniline	120	49.4		ug/L		41	10 - 128
4,6-Dinitro-2-methylphenol	240	181		ug/L		76	14 - 150
4-Bromophenyl phenyl ether	120	72.7		ug/L		61	17 - 150
4-Chloro-3-methylphenol	120	79.4		ug/L		66	37 - 131
4-Chloroaniline	120	51.8		ug/L		43	10 - 124
4-Chlorophenyl phenyl ether	120	76.8		ug/L		64	27 - 147
4-Nitroaniline	120	66.6		ug/L		56	28 - 118
4-Nitrophenol	240	163		ug/L		68	12 - 129

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-564565/2-A
Matrix: Water
Analysis Batch: 564711

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564565

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	120	74.7		ug/L		62	23 - 140
Acenaphthylene	120	81.9		ug/L		68	31 - 133
Acetophenone	120	72.2		ug/L		60	28 - 126
Aniline	120	77.7		ug/L		65	10 - 127
Anthracene	120	80.9		ug/L		67	31 - 146
Benzo[a]anthracene	120	80.4		ug/L		67	25 - 148
Benzo[a]pyrene	120	82.3		ug/L		69	16 - 150
Benzo[b]fluoranthene	120	76.6		ug/L		64	15 - 150
Benzo[g,h,i]perylene	120	67.9		ug/L		57	10 - 150
Benzo[k]fluoranthene	120	80.9		ug/L		67	15 - 150
Benzoic acid	498	269		ug/L		54	19 - 126
Benzyl alcohol	120	66.0		ug/L		55	17 - 109
Bis(2-chloroethoxy)methane	120	72.1		ug/L		60	24 - 125
Bis(2-chloroethyl)ether	120	58.1		ug/L		48	10 - 121
Bis(2-ethylhexyl) phthalate	120	81.9		ug/L		68	16 - 150
Butyl benzyl phthalate	120	84.2		ug/L		70	21 - 150
Carbazole	120	74.0		ug/L		62	37 - 145
Chrysene	120	81.2		ug/L		68	23 - 150
Di-n-butyl phthalate	120	85.2		ug/L		71	27 - 150
Di-n-octyl phthalate	120	83.2		ug/L		69	26 - 150
Dibenz(a,h)anthracene	120	68.3		ug/L		57	10 - 150
Dibenzofuran	120	79.3		ug/L		66	30 - 135
Diethyl phthalate	120	81.8		ug/L		68	37 - 145
Dimethyl phthalate	120	78.4		ug/L		65	32 - 137
Fluoranthene	120	84.3		ug/L		70	27 - 150
Fluorene	120	80.0		ug/L		67	29 - 143
Hexachlorobenzene	120	71.7		ug/L		60	10 - 150
Hexachlorobutadiene	120	65.7		ug/L		55	10 - 150
Hexachlorocyclopentadiene	120	64.6		ug/L		54	10 - 124
Hexachloroethane	120	59.6		ug/L		50	10 - 127
Indeno[1,2,3-cd]pyrene	120	70.2		ug/L		58	10 - 150
Isophorone	120	72.9		ug/L		61	28 - 127
N-Nitrosodi-n-propylamine	120	74.4		ug/L		62	24 - 142
N-Nitrosodimethylamine	120	58.5		ug/L		49	10 - 115
N-Nitrosodiphenylamine	119	68.1		ug/L		57	29 - 138
Naphthalene	120	70.7		ug/L		59	24 - 128
Nitrobenzene	120	69.4		ug/L		58	29 - 120
Pentachlorophenol	240	145		ug/L		60	19 - 150
Phenanthrene	120	78.7		ug/L		66	30 - 143
Phenol	120	53.2		ug/L		44	11 - 95
Pyrene	120	76.7		ug/L		64	21 - 149
Pyridine	240	94.2		ug/L		39	10 - 82
1,2,4,5-Tetrachlorobenzene	120	71.0		ug/L		59	15 - 149
1,2,4-Trichlorobenzene	120	66.7		ug/L		56	18 - 130
1,2-Dichlorobenzene	120	64.6		ug/L		54	19 - 124
2,4-Dinitrotoluene	120	84.7		ug/L		71	35 - 136
2,6-Dinitrotoluene	120	79.3		ug/L		66	29 - 140
Benzaldehyde	120	45.4		ug/L		38	10 - 150

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-564565/2-A
Matrix: Water
Analysis Batch: 564711

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564565

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	120	70.5		ug/L		59	10 - 150
1,1'-Biphenyl	120	74.5		ug/L		62	24 - 130
Caprolactam	120	34.6		ug/L		29	10 - 143
2,2'-oxybis[1-chloropropane]	120	64.6		ug/L		54	14 - 123
Azobenzene	120	72.8		ug/L		61	23 - 138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*62*		*10 - 150*
2-Fluorophenol (Surr)	*48*		*10 - 105*
Nitrobenzene-d5 (Surr)	*59*		*16 - 127*
Phenol-d5 (Surr)	*41*		*10 - 129*
Terphenyl-d14 (Surr)	*60*		*13 - 150*

Lab Sample ID: LCSD 400-564565/3-A
Matrix: Water
Analysis Batch: 564711

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 564565

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3-Dichlorobenzene	120	59.4		ug/L		49	18 - 118	6	40
1,4-Dichlorobenzene	120	58.1		ug/L		48	16 - 125	7	40
1-Methylnaphthalene	120	69.5		ug/L		58	28 - 129	6	40
2,3,4,6-Tetrachlorophenol	120	74.5		ug/L		62	27 - 150	7	40
2,4,5-Trichlorophenol	120	77.5		ug/L		65	30 - 144	5	40
2,4,6-Trichlorophenol	120	72.3		ug/L		60	27 - 147	6	40
2,4-Dichlorophenol	120	74.0		ug/L		62	33 - 132	4	40
2,4-Dimethylphenol	120	71.4		ug/L		59	38 - 132	1	40
2,4-Dinitrophenol	240	179		ug/L		75	15 - 150	6	40
2-Chloronaphthalene	120	68.6		ug/L		57	24 - 132	6	40
2-Chlorophenol	120	69.0		ug/L		58	27 - 124	3	40
2-Methylnaphthalene	120	69.6		ug/L		58	28 - 129	5	40
2-Methylphenol	120	73.2		ug/L		61	34 - 124	2	40
2-Nitroaniline	120	77.3		ug/L		64	24 - 139	3	40
2-Nitrophenol	120	73.4		ug/L		61	25 - 148	4	40
3 & 4 Methylphenol	120	71.3		ug/L		59	32 - 122	1	40
3,3'-Dichlorobenzidine	240	115		ug/L		48	10 - 150	5	40
3-Nitroaniline	120	53.4		ug/L		44	10 - 128	8	40
4,6-Dinitro-2-methylphenol	240	173		ug/L		72	14 - 150	5	40
4-Bromophenyl phenyl ether	120	69.9		ug/L		58	17 - 150	4	40
4-Chloro-3-methylphenol	120	76.9		ug/L		64	37 - 131	3	40
4-Chloroaniline	120	52.4		ug/L		44	10 - 124	1	40
4-Chlorophenyl phenyl ether	120	74.4		ug/L		62	27 - 147	3	40
4-Nitroaniline	120	66.8		ug/L		56	28 - 118	0	40
4-Nitrophenol	240	156		ug/L		65	12 - 129	4	40
Acenaphthene	120	71.7		ug/L		60	23 - 140	4	40
Acenaphthylene	120	78.1		ug/L		65	31 - 133	5	40
Acetophenone	120	69.0		ug/L		57	28 - 126	4	40
Aniline	120	77.5		ug/L		65	10 - 127	0	40

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-564565/3-A
Matrix: Water
Analysis Batch: 564711

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 564565

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	120	77.4		ug/L		65	31 - 146	4	40
Benzo[a]anthracene	120	75.7		ug/L		63	25 - 148	6	40
Benzo[a]pyrene	120	77.4		ug/L		64	16 - 150	6	40
Benzo[b]fluoranthene	120	71.1		ug/L		59	15 - 150	7	40
Benzo[g,h,i]perylene	120	62.2		ug/L		52	10 - 150	9	40
Benzo[k]fluoranthene	120	78.7		ug/L		66	15 - 150	3	40
Benzoic acid	498	271		ug/L		54	19 - 126	1	40
Benzyl alcohol	120	64.0		ug/L		53	17 - 109	3	40
Bis(2-chloroethoxy)methane	120	70.4		ug/L		59	24 - 125	2	40
Bis(2-chloroethyl)ether	120	56.4		ug/L		47	10 - 121	3	40
Bis(2-ethylhexyl) phthalate	120	77.8		ug/L		65	16 - 150	5	40
Butyl benzyl phthalate	120	79.1		ug/L		66	21 - 150	6	40
Carbazole	120	70.7		ug/L		59	37 - 145	4	40
Chrysene	120	76.3		ug/L		64	23 - 150	6	40
Di-n-butyl phthalate	120	81.7		ug/L		68	27 - 150	4	40
Di-n-octyl phthalate	120	78.7		ug/L		66	26 - 150	6	40
Dibenz(a,h)anthracene	120	62.8		ug/L		52	10 - 150	8	40
Dibenzofuran	120	75.9		ug/L		63	30 - 135	4	40
Diethyl phthalate	120	78.8		ug/L		66	37 - 145	4	40
Dimethyl phthalate	120	75.5		ug/L		63	32 - 137	4	40
Fluoranthene	120	80.8		ug/L		67	27 - 150	4	40
Fluorene	120	76.6		ug/L		64	29 - 143	4	40
Hexachlorobenzene	120	69.5		ug/L		58	10 - 150	3	40
Hexachlorobutadiene	120	61.4		ug/L		51	10 - 150	7	40
Hexachlorocyclopentadiene	120	59.6		ug/L		50	10 - 124	8	40
Hexachloroethane	120	56.7		ug/L		47	10 - 127	5	40
Indeno[1,2,3-cd]pyrene	120	64.2		ug/L		54	10 - 150	9	40
Isophorone	120	71.0		ug/L		59	28 - 127	3	40
N-Nitrosodi-n-propylamine	120	71.4		ug/L		59	24 - 142	4	40
N-Nitrosodimethylamine	120	57.4		ug/L		48	10 - 115	2	40
N-Nitrosodiphenylamine	119	66.6		ug/L		56	29 - 138	2	40
Naphthalene	120	67.3		ug/L		56	24 - 128	5	40
Nitrobenzene	120	65.7		ug/L		55	29 - 120	5	40
Pentachlorophenol	240	137		ug/L		57	19 - 150	5	40
Phenanthrene	120	74.9		ug/L		62	30 - 143	5	40
Phenol	120	54.1		ug/L		45	11 - 95	2	40
Pyrene	120	73.4		ug/L		61	21 - 149	4	40
Pyridine	240	94.4		ug/L		39	10 - 82	0	40
1,2,4,5-Tetrachlorobenzene	120	66.9		ug/L		56	15 - 149	6	40
1,2,4-Trichlorobenzene	120	62.7		ug/L		52	18 - 130	6	40
1,2-Dichlorobenzene	120	60.9		ug/L		51	19 - 124	6	40
2,4-Dinitrotoluene	120	80.5		ug/L		67	35 - 136	5	40
2,6-Dinitrotoluene	120	76.6		ug/L		64	29 - 140	3	40
Benzaldehyde	120	45.6		ug/L		38	10 - 150	1	40
Atrazine	120	68.6		ug/L		57	10 - 150	3	40
1,1'-Biphenyl	120	70.7		ug/L		59	24 - 130	5	40
Caprolactam	120	37.2		ug/L		31	10 - 143	7	40
2,2'-oxybis[1-chloropropane]	120	61.2		ug/L		51	14 - 123	5	40

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-564565/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 564711 — **Prep Batch: 564565**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Azobenzene			120	70.4		ug/L		59	23 - 138	3	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*59*		*10 - 150*
2-Fluorophenol (Surr)	*48*		*10 - 105*
Nitrobenzene-d5 (Surr)	*56*		*16 - 127*
Phenol-d5 (Surr)	*42*		*10 - 129*
Terphenyl-d14 (Surr)	*56*		*13 - 150*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 400-564446/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 565009 — **Prep Batch: 564446**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0050	0.0040	mg/L		01/26/22 17:55	01/31/22 17:45	1
Arsenic	ND		0.010	0.0030	mg/L		01/26/22 17:55	01/31/22 17:45	1
Barium	ND		0.010	0.0030	mg/L		01/26/22 17:55	01/31/22 17:45	1
Beryllium	ND		0.0030	0.0010	mg/L		01/26/22 17:55	01/31/22 17:45	1
Cadmium	ND		0.0050	0.0020	mg/L		01/26/22 17:55	01/31/22 17:45	1
Cobalt	ND		0.010	0.0030	mg/L		01/26/22 17:55	01/31/22 17:45	1
Chromium	ND		0.010	0.0050	mg/L		01/26/22 17:55	01/31/22 17:45	1
Molybdenum	ND		0.10	0.0040	mg/L		01/26/22 17:55	01/31/22 17:45	1
Nickel	ND		0.0060	0.0030	mg/L		01/26/22 17:55	01/31/22 17:45	1
Lead	ND		0.010	0.0020	mg/L		01/26/22 17:55	01/31/22 17:45	1
Antimony	ND		0.050	0.022	mg/L		01/26/22 17:55	01/31/22 17:45	1
Selenium	ND		0.020	0.0080	mg/L		01/26/22 17:55	01/31/22 17:45	1
Thallium	ND		0.020	0.0080	mg/L		01/26/22 17:55	01/31/22 17:45	1
Zinc	ND		0.020	0.0080	mg/L		01/26/22 17:55	01/31/22 17:45	1

Lab Sample ID: MB 400-564446/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 565108 — **Prep Batch: 564446**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.020	0.017	mg/L		01/26/22 17:55	02/01/22 14:02	1
Vanadium	ND		0.020	0.0070	mg/L		01/26/22 17:55	02/01/22 14:02	1

Lab Sample ID: LCS 400-564446/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 565009 — **Prep Batch: 564446**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Silver			0.500	0.463		mg/L		93	80 - 120		
Arsenic			1.00	0.899		mg/L		90	80 - 120		
Barium			1.00	0.909		mg/L		91	80 - 120		
Beryllium			0.500	0.461		mg/L		92	80 - 120		

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 400-564446/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 565009 — **Prep Batch: 564446**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.500	0.460		mg/L		92	80 - 120
Cobalt	1.00	0.907		mg/L		91	80 - 120
Chromium	1.00	0.900		mg/L		90	80 - 120
Copper	1.00	0.880		mg/L		88	80 - 120
Molybdenum	1.00	0.944		mg/L		94	80 - 120
Nickel	1.00	0.881		mg/L		88	80 - 120
Lead	1.00	0.899		mg/L		90	80 - 120
Antimony	1.00	0.887		mg/L		89	80 - 120
Selenium	1.00	0.882		mg/L		88	80 - 120
Thallium	1.00	0.894		mg/L		89	80 - 120
Zinc	1.00	0.908		mg/L		91	80 - 120

Lab Sample ID: LCS 400-564446/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 565108 — **Prep Batch: 564446**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	1.00	1.03		mg/L		103	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-564653/14-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 564832 — **Prep Batch: 564653**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.15	ug/L		01/28/22 09:49	01/30/22 16:01	1

Lab Sample ID: LCS 400-564653/15-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 564832 — **Prep Batch: 564653**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.01	0.910		ug/L		90	80 - 120

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

Client Sample ID: MW-1

Lab Sample ID: 400-214561-1
Date Collected: 01/21/22 08:00
Matrix: Water
Date Received: 01/26/22 10:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	564775	01/29/22 16:01	BPO	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	564866	01/31/22 15:25	BPO	TAL PEN
Total/NA	Prep	3510C			240.4 mL	1 mL	564565	01/27/22 13:29	BKL	TAL PEN
Total/NA	Analysis	8270C		1			564672	01/28/22 15:12	VC1	TAL PEN
Total/NA	Prep	3010A			10 mL	50 mL	564446	01/26/22 17:55	KWN	TAL PEN
Total/NA	Analysis	6010B		1			565009	01/31/22 19:36	LDC	TAL PEN
Total/NA	Prep	3010A			10 mL	50 mL	564446	01/26/22 17:55	KWN	TAL PEN
Total/NA	Analysis	6010B		1			565108	02/01/22 14:25	LDC	TAL PEN
Total/NA	Prep	7470A			10 mL	40 mL	564653	01/28/22 09:49	NET	TAL PEN
Total/NA	Analysis	7470A		1			564832	01/30/22 16:37	NET	TAL PEN

Client Sample ID: MW-2

Lab Sample ID: 400-214561-2
Date Collected: 01/21/22 09:00
Matrix: Water
Date Received: 01/26/22 10:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	564775	01/29/22 16:30	BPO	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	564811	01/30/22 11:23	WPD	TAL PEN
Total/NA	Prep	3510C			226.4 mL	1 mL	564565	01/27/22 13:29	BKL	TAL PEN
Total/NA	Analysis	8270C		1			564672	01/28/22 15:32	VC1	TAL PEN
Total/NA	Prep	3010A			10 mL	50 mL	564446	01/26/22 17:55	KWN	TAL PEN
Total/NA	Analysis	6010B		1			565009	01/31/22 19:41	LDC	TAL PEN
Total/NA	Prep	3010A			10 mL	50 mL	564446	01/26/22 17:55	KWN	TAL PEN
Total/NA	Analysis	6010B		1			564858	01/28/22 20:06	LDC	TAL PEN
Total/NA	Prep	3010A			10 mL	50 mL	564446	01/26/22 17:55	KWN	TAL PEN
Total/NA	Analysis	6010B		1			565108	02/01/22 14:29	LDC	TAL PEN
Total/NA	Prep	7470A			10 mL	40 mL	564653	01/28/22 09:49	NET	TAL PEN
Total/NA	Analysis	7470A		1			564832	01/30/22 16:39	NET	TAL PEN

Client Sample ID: MW-3

Lab Sample ID: 400-214561-3
Date Collected: 01/21/22 08:30
Matrix: Water
Date Received: 01/26/22 10:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	564775	01/29/22 16:59	BPO	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	564866	01/31/22 15:54	BPO	TAL PEN
Total/NA	Prep	3510C			228.8 mL	1 mL	564565	01/27/22 13:29	BKL	TAL PEN
Total/NA	Analysis	8270C		1			564672	01/28/22 15:53	VC1	TAL PEN
Total/NA	Prep	3010A			10 mL	50 mL	564446	01/26/22 17:55	KWN	TAL PEN
Total/NA	Analysis	6010B		1			565009	01/31/22 20:01	LDC	TAL PEN
Total/NA	Prep	3010A			10 mL	50 mL	564446	01/26/22 17:55	KWN	TAL PEN
Total/NA	Analysis	6010B		1			564858	01/28/22 20:21	LDC	TAL PEN

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

Client Sample ID: MW-3
Lab Sample ID: 400-214561-3
Date Collected: 01/21/22 08:30
Matrix: Water
Date Received: 01/26/22 10:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			10 mL	50 mL	564446	01/26/22 17:55	KWN	TAL PEN
Total/NA	Analysis	6010B		1			565108	02/01/22 14:32	LDC	TAL PEN
Total/NA	Prep	7470A			10 mL	40 mL	564653	01/28/22 09:49	NET	TAL PEN
Total/NA	Analysis	7470A		1			564832	01/30/22 16:40	NET	TAL PEN

Client Sample ID: TB-1
Lab Sample ID: 400-214561-4
Date Collected: 01/21/22 07:30
Matrix: Water
Date Received: 01/26/22 10:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	564775	01/29/22 15:32	BPO	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	564811	01/30/22 11:00	WPD	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-564446/1-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	564446	01/26/22 17:55	KWN	TAL PEN
Total/NA	Analysis	6010B		1			565009	01/31/22 17:45	LDC	TAL PEN
Total/NA	Prep	3010A			50 mL	50 mL	564446	01/26/22 17:55	KWN	TAL PEN
Total/NA	Analysis	6010B		1			565108	02/01/22 14:02	LDC	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-564565/1-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	564565	01/27/22 13:28	BKL	TAL PEN
Total/NA	Analysis	8270C		1			564711	01/28/22 16:28	S1B	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-564653/14-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			40 mL	40 mL	564653	01/28/22 09:49	NET	TAL PEN
Total/NA	Analysis	7470A		1			564832	01/30/22 16:01	NET	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-564775/22
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	564775	01/29/22 11:41	BPO	TAL PEN

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

Client Sample ID: Method Blank — Lab Sample ID: MB 400-564811/5

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	564811	01/30/22 10:38	WPD	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-564866/21

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	564866	01/31/22 11:34	BPO	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-564446/2-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	564446	01/26/22 17:55	KWN	TAL PEN
Total/NA	Analysis	6010B		1			565009	01/31/22 17:50	LDC	TAL PEN
Total/NA	Prep	3010A			50 mL	50 mL	564446	01/26/22 17:55	KWN	TAL PEN
Total/NA	Analysis	6010B		1			565108	02/01/22 14:17	LDC	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-564565/2-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	564565	01/27/22 13:28	BKL	TAL PEN
Total/NA	Analysis	8270C		1			564711	01/28/22 16:53	S1B	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-564653/15-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			40 mL	40 mL	564653	01/28/22 09:49	NET	TAL PEN
Total/NA	Analysis	7470A		1			564832	01/30/22 16:03	NET	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-564775/1002

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	564775	01/29/22 09:33	BPO	TAL PEN

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-564811/1002

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	564811	01/30/22 09:44	WPD	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-564866/1002

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	564866	01/31/22 09:54	BPO	TAL PEN

Client Sample ID: Lab Control Sample Dup — Lab Sample ID: LCSD 400-564565/3-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	564565	01/27/22 13:28	BKL	TAL PEN
Total/NA	Analysis	8270C		1			564711	01/28/22 17:18	S1B	TAL PEN

Client Sample ID: MW-1 — Lab Sample ID: 400-214561-1 MS

Date Collected: 01/21/22 08:00
Date Received: 01/26/22 10:08
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	564775	01/29/22 14:06	BPO	TAL PEN

Client Sample ID: MW-1 — Lab Sample ID: 400-214561-1 MSD

Date Collected: 01/21/22 08:00
Date Received: 01/26/22 10:08
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	564775	01/29/22 14:34	BPO	TAL PEN

Laboratory References:
TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214561-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
6010B	Metals (ICP)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
3010A	Preparation, Total Metals	SW846	TAL PEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL PEN
5030B	Purge and Trap	SW846	TAL PEN
7470A	Preparation, Mercury	SW846	TAL PEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Phone (850) 478-2671

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: C. Shirey	Lab PM: McKinney, Jamie A	Carrier Tracking No(s):	COC No: 400-107122-38074.1
Client Contact: Mr. Mike Pisarik	Phone:	E-Mail: Jamie.McKinney@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: Giles Engineering Associates	PWSID:			Job #: 220118TS-1
Address: 2626 Lombardy Lane Suite 105	Due Date Requested:			
City: Dallas	TAT Requested (days): STAT			
State, Zip: TX, 75220	Compliance Project: Δ Yes Δ No			
Phone: 214-358-5885(Tel) 214-358-5884(Fax)	PO #: 2E-2110007			
Email: mpisarik@gilesengr.com	WO #:			
Project Name: CFA 4434/Silver Creek & Capital FSU	Project #: 40011728			
Site: 3155 Silver Creek Rd. San Jose, CA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270C - (MOD) Routine List (Lab Defined)	6010B (CA 22), 7470A	8260B - (MOD) Routine 8260 + oxygenates	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	D	A	X	
MW-1	1/21/22	0800	G	Water	N	N	X	X	X	5	
MW-2		0900	G	Water	N	N	X	X	X	5	
MW-3		0830	G	Water	N	N	X	X	X	5	
TB-1		0730	G	Water	N	N			X	2	
				Water							

400-214561 COC

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
CS	1/21/2022 @ 1200	BTS	CS (SC)	1/21/2022 @ 1200	BTS
[illegible]	01/24/2022 @ 1500	BTS			

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2-28C (R8

Shipped via FedEx: 1482 3811 8160

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Giles Engineering Associates

Job Number: 400-214561-1

Login Number: 214561
List Number: 1
Creator: Whitley, Adrian

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX E

Soil Gas Analytical Laboratory Report and Chain-of-Custody

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
Tel: (865)291-3000

Laboratory Job ID: 140-26197-1
Client Project/Site: CFA 4434/SILVER CREEK & CAPITAL FSU

For:
Giles Engineering Associates
2626 Lombardy Lane
Suite 105
Dallas, Texas 75220

Attn: Mr. Mike Pisarik

Authorized for release by:
1/29/2022 2:22:40 PM

Jamie McKinney, Senior Project Manager
(865)291-3000
Jamie.McKinney@Eurofinset.com

Table of Contents

Definitions/Glossary

Client: Giles Engineering Associates
Project/Site: CFA 4434/SILVER CREEK & CAPITAL FSU

Job ID: 140-26197-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 140-26197-1

Laboratory: Eurofins Knoxville

Narrative

Job Narrative
140-26197-1

Comments
No additional comments.

Receipt
The samples were received on 1/24/2022 3:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

Receipt Exceptions
The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Sample VP-2 canister ID listed as 1080C should be 34000226. Sample VP-4 canister ID listed as C8518 should be 34000856.

Air - GC/MS VOA
Methods TO 15 LL, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

Methods TO 15 LL, TO-15: The continuing calibration verification (CCV) associated with batch 140-58178 exhibited % difference of > 30% for the following analyte(s) 1,2,4-Trichlorobenzene, Acrolein, Dodecane, Hexachlorobutadiene and Naphthalene; however, the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/SILVER CREEK & CAPITAL FSU

Job ID: 140-26197-1

Client Sample ID: VP-1 — Lab Sample ID: 140-26197-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.55	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.4		0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.60	J	0.98	0.32	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.39	J	1.2	0.38	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	2.6	J	2.9	0.53	ug/m3	1		TO-15	Total/NA
2-Hexanone	0.32	J	1.6	0.24	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.85	J	4.1	0.82	ug/m3	1		TO-15	Total/NA
Acetone	25		18	3.3	ug/m3	1		TO-15	Total/NA
Benzene	2.9		0.64	0.18	ug/m3	1		TO-15	Total/NA
Bromodichloromethane	1.3		1.3	0.29	ug/m3	1		TO-15	Total/NA
Bromoform	2.3		2.1	0.50	ug/m3	1		TO-15	Total/NA
Butane	31		2.4	0.17	ug/m3	1		TO-15	Total/NA
Carbon disulfide	8.2		1.2	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.55	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chlorodifluoromethane	0.71		0.71	0.13	ug/m3	1		TO-15	Total/NA
Chloroform	2.7		0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.4	J	2.1	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	2.0		1.4	0.14	ug/m3	1		TO-15	Total/NA
Dibromochloromethane	1.9		1.7	0.36	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.6		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.8		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	3.3		1.6	0.19	ug/m3	1		TO-15	Total/NA
Hexane	3.5		1.4	0.11	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	6.0		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	2.1		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propylbenzene	0.28	J	2.0	0.28	ug/m3	1		TO-15	Total/NA
Styrene	0.29	J	0.85	0.25	ug/m3	1		TO-15	Total/NA
Toluene	5.7		3.8	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.3		1.1	0.14	ug/m3	1		TO-15	Total/NA

Client Sample ID: VP-2 — Lab Sample ID: 140-26197-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.87	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	2.6		0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	1.6		0.98	0.32	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	5.4		2.9	0.53	ug/m3	1		TO-15	Total/NA
2-Hexanone	0.31	J	1.6	0.24	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	2.0	J	4.1	0.82	ug/m3	1		TO-15	Total/NA
Acetone	13	J	18	3.3	ug/m3	1		TO-15	Total/NA
Benzene	4.7		0.64	0.18	ug/m3	1		TO-15	Total/NA
Bromodichloromethane	3.0		1.3	0.29	ug/m3	1		TO-15	Total/NA
Bromoform	1.3	J	2.1	0.50	ug/m3	1		TO-15	Total/NA
Butane	72		2.4	0.17	ug/m3	1		TO-15	Total/NA
Carbon disulfide	69		1.2	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.26	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chlorodifluoromethane	1.3		0.71	0.13	ug/m3	1		TO-15	Total/NA
Chloroethane	0.13	J	0.53	0.092	ug/m3	1		TO-15	Total/NA
Chloroform	4.5		0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	0.34	J	2.1	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	8.0		1.4	0.14	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/SILVER CREEK & CAPITAL FSU

Job ID: 140-26197-1

Client Sample ID: VP-2 (Continued) — Lab Sample ID: 140-26197-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibromochloromethane	1.9		1.7	0.36	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	100		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.8		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	10		1.6	0.19	ug/m3	1		TO-15	Total/NA
Hexane	13		1.4	0.11	ug/m3	1		TO-15	Total/NA
Isopropylbenzene	0.43	J	2.0	0.29	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	6.0		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	2.1		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propylbenzene	0.42	J	2.0	0.28	ug/m3	1		TO-15	Total/NA
Styrene	0.25	J	0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.77	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	8.3		3.8	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	0.77	J	1.1	0.14	ug/m3	1		TO-15	Total/NA

Client Sample ID: VP-3 — Lab Sample ID: 140-26197-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.74	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	2.0		0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.89	J	0.98	0.32	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	5.1		2.9	0.53	ug/m3	1		TO-15	Total/NA
2-Hexanone	0.26	J	1.6	0.24	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.88	J	4.1	0.82	ug/m3	1		TO-15	Total/NA
Acetone	32		18	3.3	ug/m3	1		TO-15	Total/NA
Benzene	4.1		0.64	0.18	ug/m3	1		TO-15	Total/NA
Bromodichloromethane	3.4		1.3	0.29	ug/m3	1		TO-15	Total/NA
Bromoform	1.6	J	2.1	0.50	ug/m3	1		TO-15	Total/NA
Butane	46		2.4	0.17	ug/m3	1		TO-15	Total/NA
Carbon disulfide	6.8		1.2	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.40	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chlorodifluoromethane	0.70	J	0.71	0.13	ug/m3	1		TO-15	Total/NA
Chloroform	5.6		0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	0.57	J	2.1	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	4.5		1.4	0.14	ug/m3	1		TO-15	Total/NA
Dibromochloromethane	1.9		1.7	0.36	ug/m3	1		TO-15	Total/NA
Dibromomethane	0.30	J	2.8	0.28	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	10		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.5		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	1.3	J	1.6	0.19	ug/m3	1		TO-15	Total/NA
Hexane	2.1		1.4	0.11	ug/m3	1		TO-15	Total/NA
Isopropylbenzene	0.43	J	2.0	0.29	ug/m3	1		TO-15	Total/NA
Methylene Chloride	5.7		3.5	3.4	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	5.5		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	2.1		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propylbenzene	0.42	J	2.0	0.28	ug/m3	1		TO-15	Total/NA
Styrene	0.30	J	0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.58	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	8.5		3.8	0.45	ug/m3	1		TO-15	Total/NA
Trichloroethene	0.18	J	1.1	0.17	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.4		1.1	0.14	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/SILVER CREEK & CAPITAL FSU

Job ID: 140-26197-1

Client Sample ID: VP-4

Lab Sample ID: 140-26197-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.69	J	1.5	0.24	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.2		0.98	0.31	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.53	J	0.98	0.32	ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	3.9		2.9	0.53	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone (MIBK)	0.86	J	4.1	0.82	ug/m3	1		TO-15	Total/NA
Acetone	28		18	3.3	ug/m3	1		TO-15	Total/NA
Benzene	3.4		0.64	0.18	ug/m3	1		TO-15	Total/NA
Bromodichloromethane	0.42	J	1.3	0.29	ug/m3	1		TO-15	Total/NA
Butane	30		2.4	0.17	ug/m3	1		TO-15	Total/NA
Carbon disulfide	3.6		1.2	0.097	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.66	J	1.3	0.24	ug/m3	1		TO-15	Total/NA
Chlorodifluoromethane	1.2		0.71	0.13	ug/m3	1		TO-15	Total/NA
Chloroform	1.0		0.98	0.19	ug/m3	1		TO-15	Total/NA
Chloromethane	1.6	J	2.1	0.33	ug/m3	1		TO-15	Total/NA
Cyclohexane	2.1		1.4	0.14	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	3.6		0.99	0.34	ug/m3	1		TO-15	Total/NA
Ethylbenzene	2.1		0.87	0.30	ug/m3	1		TO-15	Total/NA
Heptane	1.9		1.6	0.19	ug/m3	1		TO-15	Total/NA
Hexane	3.5		1.4	0.11	ug/m3	1		TO-15	Total/NA
m-Xylene & p-Xylene	7.3		0.87	0.52	ug/m3	1		TO-15	Total/NA
o-Xylene	2.6		0.87	0.26	ug/m3	1		TO-15	Total/NA
Propylbenzene	0.32	J	2.0	0.28	ug/m3	1		TO-15	Total/NA
Styrene	0.33	J	0.85	0.25	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.28	J	1.4	0.27	ug/m3	1		TO-15	Total/NA
Toluene	8.7		3.8	0.45	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.3		1.1	0.14	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/SILVER CREEK & CAPITAL FSU

Job ID: 140-26197-1

Client Sample ID: VP-1

Lab Sample ID: 140-26197-1

Date Collected: 01/18/22 10:24
Date Received: 01/24/22 15:45
Sample Container: Summa Canister 6L

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			01/26/22 18:18	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			01/26/22 18:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.55**	**J**	1.5	0.24	ug/m3			01/26/22 18:18	1
1,1,2-Trichloroethane	ND		1.1	0.28	ug/m3			01/26/22 18:18	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			01/26/22 18:18	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			01/26/22 18:18	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			01/26/22 18:18	1
1,2,4-Trimethylbenzene	**1.4**		0.98	0.31	ug/m3			01/26/22 18:18	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			01/26/22 18:18	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			01/26/22 18:18	1
1,2-Dichlorobenzene	ND		2.4	0.46	ug/m3			01/26/22 18:18	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			01/26/22 18:18	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			01/26/22 18:18	1
1,3,5-Trimethylbenzene	**0.60**	**J**	0.98	0.32	ug/m3			01/26/22 18:18	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			01/26/22 18:18	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			01/26/22 18:18	1
1,4-Dichlorobenzene	**0.39**	**J**	1.2	0.38	ug/m3			01/26/22 18:18	1
2-Butanone (MEK)	**2.6**	**J**	2.9	0.53	ug/m3			01/26/22 18:18	1
2-Hexanone	**0.32**	**J**	1.6	0.24	ug/m3			01/26/22 18:18	1
3-Chloropropene	ND		0.63	0.15	ug/m3			01/26/22 18:18	1
4-Methyl-2-pentanone (MIBK)	**0.85**	**J**	4.1	0.82	ug/m3			01/26/22 18:18	1
Acetone	**25**		18	3.3	ug/m3			01/26/22 18:18	1
Acrylonitrile	ND		4.3	0.43	ug/m3			01/26/22 18:18	1
Benzene	**2.9**		0.64	0.18	ug/m3			01/26/22 18:18	1
Benzyl chloride	ND		2.1	0.40	ug/m3			01/26/22 18:18	1
Bromodichloromethane	**1.3**		1.3	0.29	ug/m3			01/26/22 18:18	1
Bromoform	**2.3**		2.1	0.50	ug/m3			01/26/22 18:18	1
Bromomethane	ND		0.78	0.12	ug/m3			01/26/22 18:18	1
Butane	**31**		2.4	0.17	ug/m3			01/26/22 18:18	1
Carbon disulfide	**8.2**		1.2	0.097	ug/m3			01/26/22 18:18	1
Carbon tetrachloride	**0.55**	**J**	1.3	0.24	ug/m3			01/26/22 18:18	1
Chlorobenzene	ND		0.92	0.23	ug/m3			01/26/22 18:18	1
Chlorodifluoromethane	**0.71**		0.71	0.13	ug/m3			01/26/22 18:18	1
Chloroethane	ND		0.53	0.092	ug/m3			01/26/22 18:18	1
Chloroform	**2.7**		0.98	0.19	ug/m3			01/26/22 18:18	1
Chloromethane	**1.4**	**J**	2.1	0.33	ug/m3			01/26/22 18:18	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			01/26/22 18:18	1
cis-1,3-Dichloropropene	ND		1.8	0.34	ug/m3			01/26/22 18:18	1
Cyclohexane	**2.0**		1.4	0.14	ug/m3			01/26/22 18:18	1
Dibromochloromethane	**1.9**		1.7	0.36	ug/m3			01/26/22 18:18	1
Dibromomethane	ND		2.8	0.28	ug/m3			01/26/22 18:18	1
Dichlorodifluoromethane	**2.6**		0.99	0.34	ug/m3			01/26/22 18:18	1
Ethylbenzene	**1.8**		0.87	0.30	ug/m3			01/26/22 18:18	1
Heptane	**3.3**		1.6	0.19	ug/m3			01/26/22 18:18	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			01/26/22 18:18	1
Hexane	**3.5**		1.4	0.11	ug/m3			01/26/22 18:18	1
Isopropylbenzene	ND		2.0	0.29	ug/m3			01/26/22 18:18	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			01/26/22 18:18	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/SILVER CREEK & CAPITAL FSU

Job ID: 140-26197-1

Client Sample ID: VP-1

Lab Sample ID: 140-26197-1
Matrix: Air

Date Collected: 01/18/22 10:24
Date Received: 01/24/22 15:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		3.5	3.4	ug/m3			01/26/22 18:18	1
m-Xylene & p-Xylene	**6.0**		0.87	0.52	ug/m3			01/26/22 18:18	1
Naphthalene	ND		2.1	0.47	ug/m3			01/26/22 18:18	1
o-Xylene	**2.1**		0.87	0.26	ug/m3			01/26/22 18:18	1
Propylbenzene	**0.28**	**J**	2.0	0.28	ug/m3			01/26/22 18:18	1
Styrene	**0.29**	**J**	0.85	0.25	ug/m3			01/26/22 18:18	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			01/26/22 18:18	1
Toluene	**5.7**		3.8	0.45	ug/m3			01/26/22 18:18	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			01/26/22 18:18	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			01/26/22 18:18	1
Trichloroethene	ND		1.1	0.17	ug/m3			01/26/22 18:18	1
Trichlorofluoromethane	**1.3**		1.1	0.14	ug/m3			01/26/22 18:18	1
Vinyl chloride	ND		1.0	0.18	ug/m3			01/26/22 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*60 - 140*		*01/26/22 18:18*	*1*

Client Sample ID: VP-2

Lab Sample ID: 140-26197-2
Matrix: Air

Date Collected: 01/18/22 10:39
Date Received: 01/24/22 15:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			01/26/22 19:03	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			01/26/22 19:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.87**	**J**	1.5	0.24	ug/m3			01/26/22 19:03	1
1,1,2-Trichloroethane	ND		1.1	0.28	ug/m3			01/26/22 19:03	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			01/26/22 19:03	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			01/26/22 19:03	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			01/26/22 19:03	1
1,2,4-Trimethylbenzene	**2.6**		0.98	0.31	ug/m3			01/26/22 19:03	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			01/26/22 19:03	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			01/26/22 19:03	1
1,2-Dichlorobenzene	ND		2.4	0.46	ug/m3			01/26/22 19:03	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			01/26/22 19:03	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			01/26/22 19:03	1
1,3,5-Trimethylbenzene	**1.6**		0.98	0.32	ug/m3			01/26/22 19:03	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			01/26/22 19:03	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			01/26/22 19:03	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			01/26/22 19:03	1
2-Butanone (MEK)	**5.4**		2.9	0.53	ug/m3			01/26/22 19:03	1
2-Hexanone	**0.31**	**J**	1.6	0.24	ug/m3			01/26/22 19:03	1
3-Chloropropene	ND		0.63	0.15	ug/m3			01/26/22 19:03	1
4-Methyl-2-pentanone (MIBK)	**2.0**	**J**	4.1	0.82	ug/m3			01/26/22 19:03	1
Acetone	**13**	**J**	18	3.3	ug/m3			01/26/22 19:03	1
Acrylonitrile	ND		4.3	0.43	ug/m3			01/26/22 19:03	1
Benzene	**4.7**		0.64	0.18	ug/m3			01/26/22 19:03	1

Client Sample ID: VP-2

Lab Sample ID: 140-26197-2

Date Collected: 01/18/22 10:39
Matrix: Air
Date Received: 01/24/22 15:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl chloride	ND		2.1	0.40	ug/m3			01/26/22 19:03	1
Bromodichloromethane	**3.0**		1.3	0.29	ug/m3			01/26/22 19:03	1
Bromoform	**1.3**	**J**	2.1	0.50	ug/m3			01/26/22 19:03	1
Bromomethane	ND		0.78	0.12	ug/m3			01/26/22 19:03	1
Butane	**72**		2.4	0.17	ug/m3			01/26/22 19:03	1
Carbon disulfide	**69**		1.2	0.097	ug/m3			01/26/22 19:03	1
Carbon tetrachloride	**0.26**	**J**	1.3	0.24	ug/m3			01/26/22 19:03	1
Chlorobenzene	ND		0.92	0.23	ug/m3			01/26/22 19:03	1
Chlorodifluoromethane	**1.3**		0.71	0.13	ug/m3			01/26/22 19:03	1
Chloroethane	**0.13**	**J**	0.53	0.092	ug/m3			01/26/22 19:03	1
Chloroform	**4.5**		0.98	0.19	ug/m3			01/26/22 19:03	1
Chloromethane	**0.34**	**J**	2.1	0.33	ug/m3			01/26/22 19:03	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			01/26/22 19:03	1
cis-1,3-Dichloropropene	ND		1.8	0.34	ug/m3			01/26/22 19:03	1
Cyclohexane	**8.0**		1.4	0.14	ug/m3			01/26/22 19:03	1
Dibromochloromethane	**1.9**		1.7	0.36	ug/m3			01/26/22 19:03	1
Dibromomethane	ND		2.8	0.28	ug/m3			01/26/22 19:03	1
Dichlorodifluoromethane	**100**		0.99	0.34	ug/m3			01/26/22 19:03	1
Ethylbenzene	**1.8**		0.87	0.30	ug/m3			01/26/22 19:03	1
Heptane	**10**		1.6	0.19	ug/m3			01/26/22 19:03	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			01/26/22 19:03	1
Hexane	**13**		1.4	0.11	ug/m3			01/26/22 19:03	1
Isopropylbenzene	**0.43**	**J**	2.0	0.29	ug/m3			01/26/22 19:03	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			01/26/22 19:03	1
Methylene Chloride	ND		3.5	3.4	ug/m3			01/26/22 19:03	1
m-Xylene & p-Xylene	**6.0**		0.87	0.52	ug/m3			01/26/22 19:03	1
Naphthalene	ND		2.1	0.47	ug/m3			01/26/22 19:03	1
o-Xylene	**2.1**		0.87	0.26	ug/m3			01/26/22 19:03	1
Propylbenzene	**0.42**	**J**	2.0	0.28	ug/m3			01/26/22 19:03	1
Styrene	**0.25**	**J**	0.85	0.25	ug/m3			01/26/22 19:03	1
Tetrachloroethene	**0.77**	**J**	1.4	0.27	ug/m3			01/26/22 19:03	1
Toluene	**8.3**		3.8	0.45	ug/m3			01/26/22 19:03	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			01/26/22 19:03	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			01/26/22 19:03	1
Trichloroethene	ND		1.1	0.17	ug/m3			01/26/22 19:03	1
Trichlorofluoromethane	**0.77**	**J**	1.1	0.14	ug/m3			01/26/22 19:03	1
Vinyl chloride	ND		1.0	0.18	ug/m3			01/26/22 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*60 - 140*		*01/26/22 19:03*	*1*

Client Sample ID: VP-3

Lab Sample ID: 140-26197-3

Date Collected: 01/18/22 10:52
Matrix: Air
Date Received: 01/24/22 15:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			01/26/22 19:48	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/SILVER CREEK & CAPITAL FSU

Job ID: 140-26197-1

Client Sample ID: VP-3

Lab Sample ID: 140-26197-3

Date Collected: 01/18/22 10:52
Date Received: 01/24/22 15:45
Sample Container: Summa Canister 6L

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			01/26/22 19:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.74**	**J**	1.5	0.24	ug/m3			01/26/22 19:48	1
1,1,2-Trichloroethane	ND		1.1	0.28	ug/m3			01/26/22 19:48	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			01/26/22 19:48	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			01/26/22 19:48	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			01/26/22 19:48	1
1,2,4-Trimethylbenzene	**2.0**		0.98	0.31	ug/m3			01/26/22 19:48	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			01/26/22 19:48	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			01/26/22 19:48	1
1,2-Dichlorobenzene	ND		2.4	0.46	ug/m3			01/26/22 19:48	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			01/26/22 19:48	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			01/26/22 19:48	1
1,3,5-Trimethylbenzene	**0.89**	**J**	0.98	0.32	ug/m3			01/26/22 19:48	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			01/26/22 19:48	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			01/26/22 19:48	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			01/26/22 19:48	1
2-Butanone (MEK)	**5.1**		2.9	0.53	ug/m3			01/26/22 19:48	1
2-Hexanone	**0.26**	**J**	1.6	0.24	ug/m3			01/26/22 19:48	1
3-Chloropropene	ND		0.63	0.15	ug/m3			01/26/22 19:48	1
4-Methyl-2-pentanone (MIBK)	**0.88**	**J**	4.1	0.82	ug/m3			01/26/22 19:48	1
Acetone	**32**		18	3.3	ug/m3			01/26/22 19:48	1
Acrylonitrile	ND		4.3	0.43	ug/m3			01/26/22 19:48	1
Benzene	**4.1**		0.64	0.18	ug/m3			01/26/22 19:48	1
Benzyl chloride	ND		2.1	0.40	ug/m3			01/26/22 19:48	1
Bromodichloromethane	**3.4**		1.3	0.29	ug/m3			01/26/22 19:48	1
Bromoform	**1.6**	**J**	2.1	0.50	ug/m3			01/26/22 19:48	1
Bromomethane	ND		0.78	0.12	ug/m3			01/26/22 19:48	1
Butane	**46**		2.4	0.17	ug/m3			01/26/22 19:48	1
Carbon disulfide	**6.8**		1.2	0.097	ug/m3			01/26/22 19:48	1
Carbon tetrachloride	**0.40**	**J**	1.3	0.24	ug/m3			01/26/22 19:48	1
Chlorobenzene	ND		0.92	0.23	ug/m3			01/26/22 19:48	1
Chlorodifluoromethane	**0.70**	**J**	0.71	0.13	ug/m3			01/26/22 19:48	1
Chloroethane	ND		0.53	0.092	ug/m3			01/26/22 19:48	1
Chloroform	**5.6**		0.98	0.19	ug/m3			01/26/22 19:48	1
Chloromethane	**0.57**	**J**	2.1	0.33	ug/m3			01/26/22 19:48	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			01/26/22 19:48	1
cis-1,3-Dichloropropene	ND		1.8	0.34	ug/m3			01/26/22 19:48	1
Cyclohexane	**4.5**		1.4	0.14	ug/m3			01/26/22 19:48	1
Dibromochloromethane	**1.9**		1.7	0.36	ug/m3			01/26/22 19:48	1
Dibromomethane	**0.30**	**J**	2.8	0.28	ug/m3			01/26/22 19:48	1
Dichlorodifluoromethane	**10**		0.99	0.34	ug/m3			01/26/22 19:48	1
Ethylbenzene	**1.5**		0.87	0.30	ug/m3			01/26/22 19:48	1
Heptane	**1.3**	**J**	1.6	0.19	ug/m3			01/26/22 19:48	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			01/26/22 19:48	1
Hexane	**2.1**		1.4	0.11	ug/m3			01/26/22 19:48	1
Isopropylbenzene	**0.43**	**J**	2.0	0.29	ug/m3			01/26/22 19:48	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			01/26/22 19:48	1
Methylene Chloride	**5.7**		3.5	3.4	ug/m3			01/26/22 19:48	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/SILVER CREEK & CAPITAL FSU

Job ID: 140-26197-1

Client Sample ID: VP-3

Lab Sample ID: 140-26197-3
Matrix: Air

Date Collected: 01/18/22 10:52
Date Received: 01/24/22 15:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	**5.5**		0.87	0.52	ug/m3			01/26/22 19:48	1
Naphthalene	ND		2.1	0.47	ug/m3			01/26/22 19:48	1
o-Xylene	**2.1**		0.87	0.26	ug/m3			01/26/22 19:48	1
Propylbenzene	**0.42**	**J**	2.0	0.28	ug/m3			01/26/22 19:48	1
Styrene	**0.30**	**J**	0.85	0.25	ug/m3			01/26/22 19:48	1
Tetrachloroethene	**0.58**	**J**	1.4	0.27	ug/m3			01/26/22 19:48	1
Toluene	**8.5**		3.8	0.45	ug/m3			01/26/22 19:48	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			01/26/22 19:48	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			01/26/22 19:48	1
Trichloroethene	**0.18**	**J**	1.1	0.17	ug/m3			01/26/22 19:48	1
Trichlorofluoromethane	**1.4**		1.1	0.14	ug/m3			01/26/22 19:48	1
Vinyl chloride	ND		1.0	0.18	ug/m3			01/26/22 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*		*01/26/22 19:48*	*1*

Client Sample ID: VP-4

Lab Sample ID: 140-26197-4
Matrix: Air

Date Collected: 01/18/22 10:48
Date Received: 01/24/22 15:45
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			01/26/22 20:32	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			01/26/22 20:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.69**	**J**	1.5	0.24	ug/m3			01/26/22 20:32	1
1,1,2-Trichloroethane	ND		1.1	0.28	ug/m3			01/26/22 20:32	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			01/26/22 20:32	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			01/26/22 20:32	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			01/26/22 20:32	1
1,2,4-Trimethylbenzene	**1.2**		0.98	0.31	ug/m3			01/26/22 20:32	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			01/26/22 20:32	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			01/26/22 20:32	1
1,2-Dichlorobenzene	ND		2.4	0.46	ug/m3			01/26/22 20:32	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			01/26/22 20:32	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			01/26/22 20:32	1
1,3,5-Trimethylbenzene	**0.53**	**J**	0.98	0.32	ug/m3			01/26/22 20:32	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			01/26/22 20:32	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			01/26/22 20:32	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			01/26/22 20:32	1
2-Butanone (MEK)	**3.9**		2.9	0.53	ug/m3			01/26/22 20:32	1
2-Hexanone	ND		1.6	0.24	ug/m3			01/26/22 20:32	1
3-Chloropropene	ND		0.63	0.15	ug/m3			01/26/22 20:32	1
4-Methyl-2-pentanone (MIBK)	**0.86**	**J**	4.1	0.82	ug/m3			01/26/22 20:32	1
Acetone	**28**		18	3.3	ug/m3			01/26/22 20:32	1
Acrylonitrile	ND		4.3	0.43	ug/m3			01/26/22 20:32	1
Benzene	**3.4**		0.64	0.18	ug/m3			01/26/22 20:32	1
Benzyl chloride	ND		2.1	0.40	ug/m3			01/26/22 20:32	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/SILVER CREEK & CAPITAL FSU

Job ID: 140-26197-1

Client Sample ID: VP-4

Lab Sample ID: 140-26197-4

Date Collected: 01/18/22 10:48
Date Received: 01/24/22 15:45
Sample Container: Summa Canister 6L

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	**0.42**	**J**	1.3	0.29	ug/m3			01/26/22 20:32	1
Bromoform	ND		2.1	0.50	ug/m3			01/26/22 20:32	1
Bromomethane	ND		0.78	0.12	ug/m3			01/26/22 20:32	1
Butane	**30**		2.4	0.17	ug/m3			01/26/22 20:32	1
Carbon disulfide	**3.6**		1.2	0.097	ug/m3			01/26/22 20:32	1
Carbon tetrachloride	**0.66**	**J**	1.3	0.24	ug/m3			01/26/22 20:32	1
Chlorobenzene	ND		0.92	0.23	ug/m3			01/26/22 20:32	1
Chlorodifluoromethane	**1.2**		0.71	0.13	ug/m3			01/26/22 20:32	1
Chloroethane	ND		0.53	0.092	ug/m3			01/26/22 20:32	1
Chloroform	**1.0**		0.98	0.19	ug/m3			01/26/22 20:32	1
Chloromethane	**1.6**	**J**	2.1	0.33	ug/m3			01/26/22 20:32	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			01/26/22 20:32	1
cis-1,3-Dichloropropene	ND		1.8	0.34	ug/m3			01/26/22 20:32	1
Cyclohexane	**2.1**		1.4	0.14	ug/m3			01/26/22 20:32	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			01/26/22 20:32	1
Dibromomethane	ND		2.8	0.28	ug/m3			01/26/22 20:32	1
Dichlorodifluoromethane	**3.6**		0.99	0.34	ug/m3			01/26/22 20:32	1
Ethylbenzene	**2.1**		0.87	0.30	ug/m3			01/26/22 20:32	1
Heptane	**1.9**		1.6	0.19	ug/m3			01/26/22 20:32	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			01/26/22 20:32	1
Hexane	**3.5**		1.4	0.11	ug/m3			01/26/22 20:32	1
Isopropylbenzene	ND		2.0	0.29	ug/m3			01/26/22 20:32	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			01/26/22 20:32	1
Methylene Chloride	ND		3.5	3.4	ug/m3			01/26/22 20:32	1
m-Xylene & p-Xylene	**7.3**		0.87	0.52	ug/m3			01/26/22 20:32	1
Naphthalene	ND		2.1	0.47	ug/m3			01/26/22 20:32	1
o-Xylene	**2.6**		0.87	0.26	ug/m3			01/26/22 20:32	1
Propylbenzene	**0.32**	**J**	2.0	0.28	ug/m3			01/26/22 20:32	1
Styrene	**0.33**	**J**	0.85	0.25	ug/m3			01/26/22 20:32	1
Tetrachloroethene	**0.28**	**J**	1.4	0.27	ug/m3			01/26/22 20:32	1
Toluene	**8.7**		3.8	0.45	ug/m3			01/26/22 20:32	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			01/26/22 20:32	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			01/26/22 20:32	1
Trichloroethene	ND		1.1	0.17	ug/m3			01/26/22 20:32	1
Trichlorofluoromethane	**1.3**		1.1	0.14	ug/m3			01/26/22 20:32	1
Vinyl chloride	ND		1.0	0.18	ug/m3			01/26/22 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*01/26/22 20:32*	*1*

Default Detection Limits

Client: Giles Engineering Associates
Project/Site: CFA 4434/SILVER CREEK & CAPITAL FSU

Job ID: 140-26197-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	RL	MDL	Units
1,1,1-Trichloroethane	1.1	0.16	ug/m3
1,1,2,2-Tetrachloroethane	1.4	0.42	ug/m3
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5	0.24	ug/m3
1,1,2-Trichloroethane	1.1	0.28	ug/m3
1,1-Dichloroethane	0.81	0.11	ug/m3
1,1-Dichloroethene	0.79	0.13	ug/m3
1,2,4-Trichlorobenzene	7.4	0.73	ug/m3
1,2,4-Trimethylbenzene	0.98	0.31	ug/m3
1,2-Dibromoethane (EDB)	1.5	0.34	ug/m3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1.4	0.22	ug/m3
1,2-Dichlorobenzene	2.4	0.46	ug/m3
1,2-Dichloroethane	0.81	0.19	ug/m3
1,2-Dichloropropane	0.92	0.24	ug/m3
1,3,5-Trimethylbenzene	0.98	0.32	ug/m3
1,3-Butadiene	0.88	0.14	ug/m3
1,3-Dichlorobenzene	1.2	0.39	ug/m3
1,4-Dichlorobenzene	1.2	0.38	ug/m3
2-Butanone (MEK)	2.9	0.53	ug/m3
2-Hexanone	1.6	0.24	ug/m3
3-Chloropropene	0.63	0.15	ug/m3
4-Methyl-2-pentanone (MIBK)	4.1	0.82	ug/m3
Acetone	18	3.3	ug/m3
Acrylonitrile	4.3	0.43	ug/m3
Benzene	0.64	0.18	ug/m3
Benzyl chloride	2.1	0.40	ug/m3
Bromodichloromethane	1.3	0.29	ug/m3
Bromoform	2.1	0.50	ug/m3
Bromomethane	0.78	0.12	ug/m3
Butane	2.4	0.17	ug/m3
Carbon disulfide	1.2	0.097	ug/m3
Carbon tetrachloride	1.3	0.24	ug/m3
Chlorobenzene	0.92	0.23	ug/m3
Chlorodifluoromethane	0.71	0.13	ug/m3
Chloroethane	0.53	0.092	ug/m3
Chloroform	0.98	0.19	ug/m3
Chloromethane	2.1	0.33	ug/m3
cis-1,2-Dichloroethene	0.79	0.24	ug/m3
cis-1,3-Dichloropropene	1.8	0.34	ug/m3
Cyclohexane	1.4	0.14	ug/m3
Dibromochloromethane	1.7	0.36	ug/m3
Dibromomethane	2.8	0.28	ug/m3
Dichlorodifluoromethane	0.99	0.34	ug/m3
Ethylbenzene	0.87	0.30	ug/m3
Heptane	1.6	0.19	ug/m3
Hexachlorobutadiene	11	0.83	ug/m3
Hexane	1.4	0.11	ug/m3
Isopropylbenzene	2.0	0.29	ug/m3
Methyl tert-butyl ether	3.6	0.61	ug/m3
Methylene Chloride	3.5	3.4	ug/m3
m-Xylene & p-Xylene	0.87	0.52	ug/m3
Naphthalene	2.1	0.47	ug/m3
o-Xylene	0.87	0.26	ug/m3
Propylbenzene	2.0	0.28	ug/m3

Default Detection Limits

Client: Giles Engineering Associates
Job ID: 140-26197-1
Project/Site: CFA 4434/SILVER CREEK & CAPITAL FSU

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	RL	MDL	Units
Styrene	0.85	0.25	ug/m3
Tetrachloroethene	1.4	0.27	ug/m3
Toluene	3.8	0.45	ug/m3
trans-1,2-Dichloroethene	0.79	0.20	ug/m3
trans-1,3-Dichloropropene	0.91	0.22	ug/m3
Trichloroethene	1.1	0.17	ug/m3
Trichlorofluoromethane	1.1	0.14	ug/m3
Vinyl chloride	1.0	0.18	ug/m3

Surrogate Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/SILVER CREEK & CAPITAL FSU

Job ID: 140-26197-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Matrix: Air **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	**Client Sample ID**	**BFB (60-140)**							
140-26197-1	VP-1	102							
140-26197-2	VP-2	102							
140-26197-3	VP-3	96							
140-26197-4	VP-4	94							
LCS 140-58178/1002	Lab Control Sample	97							
MB 140-58178/5	Method Blank	92							

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 140-58178/5
Matrix: Air
Analysis Batch: 58178

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.16	ug/m3			01/26/22 16:49	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.42	ug/m3			01/26/22 16:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	0.24	ug/m3			01/26/22 16:49	1
1,1,2-Trichloroethane	ND		1.1	0.28	ug/m3			01/26/22 16:49	1
1,1-Dichloroethane	ND		0.81	0.11	ug/m3			01/26/22 16:49	1
1,1-Dichloroethene	ND		0.79	0.13	ug/m3			01/26/22 16:49	1
1,2,4-Trichlorobenzene	ND		7.4	0.73	ug/m3			01/26/22 16:49	1
1,2,4-Trimethylbenzene	ND		0.98	0.31	ug/m3			01/26/22 16:49	1
1,2-Dibromoethane (EDB)	ND		1.5	0.34	ug/m3			01/26/22 16:49	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		1.4	0.22	ug/m3			01/26/22 16:49	1
1,2-Dichlorobenzene	ND		2.4	0.46	ug/m3			01/26/22 16:49	1
1,2-Dichloroethane	ND		0.81	0.19	ug/m3			01/26/22 16:49	1
1,2-Dichloropropane	ND		0.92	0.24	ug/m3			01/26/22 16:49	1
1,3,5-Trimethylbenzene	ND		0.98	0.32	ug/m3			01/26/22 16:49	1
1,3-Butadiene	ND		0.88	0.14	ug/m3			01/26/22 16:49	1
1,3-Dichlorobenzene	ND		1.2	0.39	ug/m3			01/26/22 16:49	1
1,4-Dichlorobenzene	ND		1.2	0.38	ug/m3			01/26/22 16:49	1
2-Butanone (MEK)	ND		2.9	0.53	ug/m3			01/26/22 16:49	1
2-Hexanone	ND		1.6	0.24	ug/m3			01/26/22 16:49	1
3-Chloropropene	ND		0.63	0.15	ug/m3			01/26/22 16:49	1
4-Methyl-2-pentanone (MIBK)	ND		4.1	0.82	ug/m3			01/26/22 16:49	1
Acetone	ND		18	3.3	ug/m3			01/26/22 16:49	1
Acrylonitrile	ND		4.3	0.43	ug/m3			01/26/22 16:49	1
Benzene	ND		0.64	0.18	ug/m3			01/26/22 16:49	1
Benzyl chloride	ND		2.1	0.40	ug/m3			01/26/22 16:49	1
Bromodichloromethane	ND		1.3	0.29	ug/m3			01/26/22 16:49	1
Bromoform	ND		2.1	0.50	ug/m3			01/26/22 16:49	1
Bromomethane	ND		0.78	0.12	ug/m3			01/26/22 16:49	1
Butane	ND		2.4	0.17	ug/m3			01/26/22 16:49	1
Carbon disulfide	ND		1.2	0.097	ug/m3			01/26/22 16:49	1
Carbon tetrachloride	ND		1.3	0.24	ug/m3			01/26/22 16:49	1
Chlorobenzene	ND		0.92	0.23	ug/m3			01/26/22 16:49	1
Chlorodifluoromethane	ND		0.71	0.13	ug/m3			01/26/22 16:49	1
Chloroethane	ND		0.53	0.092	ug/m3			01/26/22 16:49	1
Chloroform	ND		0.98	0.19	ug/m3			01/26/22 16:49	1
Chloromethane	ND		2.1	0.33	ug/m3			01/26/22 16:49	1
cis-1,2-Dichloroethene	ND		0.79	0.24	ug/m3			01/26/22 16:49	1
cis-1,3-Dichloropropene	ND		1.8	0.34	ug/m3			01/26/22 16:49	1
Cyclohexane	ND		1.4	0.14	ug/m3			01/26/22 16:49	1
Dibromochloromethane	ND		1.7	0.36	ug/m3			01/26/22 16:49	1
Dibromomethane	ND		2.8	0.28	ug/m3			01/26/22 16:49	1
Dichlorodifluoromethane	ND		0.99	0.34	ug/m3			01/26/22 16:49	1
Ethylbenzene	ND		0.87	0.30	ug/m3			01/26/22 16:49	1
Heptane	ND		1.6	0.19	ug/m3			01/26/22 16:49	1
Hexachlorobutadiene	ND		11	0.83	ug/m3			01/26/22 16:49	1
Hexane	ND		1.4	0.11	ug/m3			01/26/22 16:49	1
Isopropylbenzene	ND		2.0	0.29	ug/m3			01/26/22 16:49	1
Methyl tert-butyl ether	ND		3.6	0.61	ug/m3			01/26/22 16:49	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-58178/5
Matrix: Air
Analysis Batch: 58178

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		3.5	3.4	ug/m3			01/26/22 16:49	1
m-Xylene & p-Xylene	ND		0.87	0.52	ug/m3			01/26/22 16:49	1
Naphthalene	ND		2.1	0.47	ug/m3			01/26/22 16:49	1
o-Xylene	ND		0.87	0.26	ug/m3			01/26/22 16:49	1
Propylbenzene	ND		2.0	0.28	ug/m3			01/26/22 16:49	1
Styrene	ND		0.85	0.25	ug/m3			01/26/22 16:49	1
Tetrachloroethene	ND		1.4	0.27	ug/m3			01/26/22 16:49	1
Toluene	ND		3.8	0.45	ug/m3			01/26/22 16:49	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/m3			01/26/22 16:49	1
trans-1,3-Dichloropropene	ND		0.91	0.22	ug/m3			01/26/22 16:49	1
Trichloroethene	ND		1.1	0.17	ug/m3			01/26/22 16:49	1
Trichlorofluoromethane	ND		1.1	0.14	ug/m3			01/26/22 16:49	1
Vinyl chloride	ND		1.0	0.18	ug/m3			01/26/22 16:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*60 - 140*		*01/26/22 16:49*	*1*

Lab Sample ID: LCS 140-58178/1002
Matrix: Air
Analysis Batch: 58178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.9	10.6		ug/m3		97	70 - 130
1,1,2,2-Tetrachloroethane	13.7	11.8		ug/m3		86	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	15.3	15.6		ug/m3		101	70 - 130
1,1,2-Trichloroethane	10.9	9.83		ug/m3		90	70 - 130
1,1-Dichloroethane	8.09	7.83		ug/m3		97	70 - 130
1,1-Dichloroethene	7.93	7.68		ug/m3		97	70 - 130
1,2,4-Trichlorobenzene	14.8	9.72		ug/m3		65	60 - 140
1,2,4-Trimethylbenzene	9.83	8.92		ug/m3		91	70 - 130
1,2-Dibromoethane (EDB)	15.4	14.0		ug/m3		91	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	14.0	14.0		ug/m3		100	60 - 140
1,2-Dichlorobenzene	12.0	11.2		ug/m3		93	70 - 130
1,2-Dichloroethane	8.09	8.28		ug/m3		102	70 - 130
1,2-Dichloropropane	9.24	9.12		ug/m3		99	70 - 130
1,3,5-Trimethylbenzene	9.83	10.7		ug/m3		109	70 - 130
1,3-Butadiene	4.42	4.20		ug/m3		95	60 - 140
1,3-Dichlorobenzene	12.0	10.9		ug/m3		90	70 - 130
1,4-Dichlorobenzene	12.0	10.6		ug/m3		88	70 - 130
2-Butanone (MEK)	5.90	4.75		ug/m3		81	60 - 140
2-Hexanone	8.20	7.04		ug/m3		86	60 - 140
3-Chloropropene	6.26	5.04		ug/m3		81	60 - 140
4-Methyl-2-pentanone (MIBK)	8.19	7.88		ug/m3		96	60 - 140
Acetone	4.75	3.94	J	ug/m3		83	60 - 140
Acrylonitrile	4.34	4.49		ug/m3		103	60 - 140
Benzene	6.39	6.28		ug/m3		98	70 - 130
Benzyl chloride	10.4	8.21		ug/m3		79	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 140-58178/1002
Matrix: Air
Analysis Batch: 58178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	13.4	12.5		ug/m3		93	70 - 130
Bromoform	20.7	21.2		ug/m3		103	60 - 140
Bromomethane	7.77	5.99		ug/m3		77	70 - 130
Butane	4.75	4.36		ug/m3		92	60 - 140
Carbon disulfide	6.23	5.03		ug/m3		81	70 - 130
Carbon tetrachloride	12.6	14.0		ug/m3		111	70 - 130
Chlorobenzene	9.21	9.15		ug/m3		99	70 - 130
Chlorodifluoromethane	7.07	7.36		ug/m3		104	60 - 140
Chloroethane	5.28	3.71		ug/m3		70	70 - 130
Chloroform	9.77	8.55		ug/m3		88	70 - 130
Chloromethane	4.13	3.79		ug/m3		92	60 - 140
cis-1,2-Dichloroethene	7.93	7.91		ug/m3		100	70 - 130
cis-1,3-Dichloropropene	9.08	8.45		ug/m3		93	70 - 130
Cyclohexane	6.88	6.89		ug/m3		100	70 - 130
Dibromochloromethane	17.0	17.7		ug/m3		104	70 - 130
Dibromomethane	14.2	13.7		ug/m3		96	70 - 130
Dichlorodifluoromethane	9.89	9.97		ug/m3		101	60 - 140
Ethylbenzene	8.68	8.03		ug/m3		93	70 - 130
Heptane	8.20	7.68		ug/m3		94	70 - 130
Hexachlorobutadiene	21.3	14.7		ug/m3		69	60 - 140
Hexane	7.05	6.26		ug/m3		89	70 - 130
Isopropylbenzene	9.83	9.35		ug/m3		95	70 - 130
Methyl tert-butyl ether	7.21	6.75		ug/m3		94	60 - 140
Methylene Chloride	6.95	5.59		ug/m3		80	70 - 130
m-Xylene & p-Xylene	17.4	16.7		ug/m3		96	70 - 130
Naphthalene	10.5	6.45		ug/m3		62	60 - 140
o-Xylene	8.68	8.33		ug/m3		96	70 - 130
Propylbenzene	9.83	9.80		ug/m3		100	70 - 130
Styrene	8.52	7.81		ug/m3		92	70 - 130
Tetrachloroethene	13.6	13.3		ug/m3		98	70 - 130
Toluene	7.54	7.38		ug/m3		98	70 - 130
trans-1,2-Dichloroethene	7.93	8.08		ug/m3		102	70 - 130
trans-1,3-Dichloropropene	9.08	7.41		ug/m3		82	70 - 130
Trichloroethene	10.7	11.6		ug/m3		108	70 - 130
Trichlorofluoromethane	11.2	10.5		ug/m3		94	60 - 140
Vinyl chloride	5.11	4.48		ug/m3		88	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*

QC Association Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/SILVER CREEK & CAPITAL FSU

Job ID: 140-26197-1

Air - GC/MS VOA

Analysis Batch: 58178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26197-1	VP-1	Total/NA	Air	TO-15	
140-26197-2	VP-2	Total/NA	Air	TO-15	
140-26197-3	VP-3	Total/NA	Air	TO-15	
140-26197-4	VP-4	Total/NA	Air	TO-15	
MB 140-58178/5	Method Blank	Total/NA	Air	TO-15	
LCS 140-58178/1002	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 4434/SILVER CREEK & CAPITAL FSU

Job ID: 140-26197-1

Client Sample ID: VP-1
Date Collected: 01/18/22 10:24
Date Received: 01/24/22 15:45

Lab Sample ID: 140-26197-1
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	58178	01/26/22 18:18	S1K	TAL KNX
	Instrument ID: MR									

Client Sample ID: VP-2
Date Collected: 01/18/22 10:39
Date Received: 01/24/22 15:45

Lab Sample ID: 140-26197-2
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	58178	01/26/22 19:03	S1K	TAL KNX
	Instrument ID: MR									

Client Sample ID: VP-3
Date Collected: 01/18/22 10:52
Date Received: 01/24/22 15:45

Lab Sample ID: 140-26197-3
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	58178	01/26/22 19:48	S1K	TAL KNX
	Instrument ID: MR									

Client Sample ID: VP-4
Date Collected: 01/18/22 10:48
Date Received: 01/24/22 15:45

Lab Sample ID: 140-26197-4
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	58178	01/26/22 20:32	S1K	TAL KNX
	Instrument ID: MR									

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 140-58178/5
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	200 mL	500 mL	58178	01/26/22 16:49	S1K	TAL KNX
	Instrument ID: MR									

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 140-58178/1002
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	500 mL	500 mL	58178	01/26/22 13:42	S1K	TAL KNX
	Instrument ID: MR									

Laboratory References:
TAL KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Method Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/SILVER CREEK & CAPITAL FSU

Job ID: 140-26197-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL KNX

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/SILVER CREEK & CAPITAL FSU

Job ID: 140-26197-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
140-26197-1	VP-1	Air	01/18/22 10:24	01/24/22 15:45	Air Canister (6-Liter) #12108
140-26197-2	VP-2	Air	01/18/22 10:39	01/24/22 15:45	Air Canister (6-Liter) #34000226
140-26197-3	VP-3	Air	01/18/22 10:52	01/24/22 15:45	Air Canister (6-Liter) #11962
140-26197-4	VP-4	Air	01/18/22 10:48	01/24/22 15:45	Air Canister (6-Liter) #34000856

Eurofins TestAmerica, Knoxville
5815 Middlebrook Pike

Knoxville, TN 37921-5947
phone 865.291.3000 fax 865.584.4315

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

eurofins | Environment Testing TestAmerica

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact Information	**Client Project Manager: Mike Pisarik**	**Samples Collected By: Bill Dugan – WellTest, Inc.** 408-460-1884	COC No: 1-18-2022 #1
Company Name: Giles	**Phone:**		1 of 1 COCs
Address:2626 Lombardy Lane, Suite 105	**Email:**		
City/State/Zip Dallas, TX 75220			**For Lab Use Only:**
Phone: (214)- 358-5885	**Site Contact:**		Walk-in Client:
FAX: (214)-358-5884	**Tel/Fax**		Lab Sampling:
Project Name: CFA 4434/Silver Creek & Capital FSU	**Analysis Turnaround Time**		
Site/Location; San Jose, CA	Standard (Specific):		Job / SDG No.:
P O: 2E-2110007	Rush (Specifiy):		(See below for Add'l Items)

Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-14/15 (Standard / Low Level)	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes section)	Sample Type Vapor well	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
VP-1	1/18/2022	9:00	10:24	10:24	-30	-3	11954	12108		X													
VP-2	1/18/2022	10:28	10:39	10:39	-30	-3	7333	10806		X													
VP-3	1/18/2022	10:10	10:52	10:52	-32	-3	9051	11962		X													
VP-4	1/18/2022	10:05	10:48	10:48	-33	-3	10904	C8518		X													

Rec @ ambient
custody Seal intact
1 box PO 01.24.22
Fed ex # 5406 5880 2644 9
4 cans 4 (x) flows

Temperature (Fahrenheit)			
Start	Interior	Ambient	
Stop			

Pressure (inches of Hg)			
Start	Interior	Ambient	
Stop			

140-26197 Chain of Custody

Special Instructions/QC Requirements & Comments:

All canisters sample rate ~~3~~ 200 mL/min.

Samples Shipped by:	**Date / Time:** 1-18/2022 12:35	**Samples Received by:** 01.24.22 15:45
Samples Relinquished by:	**Date / Time:**	**Received by:**
Relinquished by:	**Date / Time:**	**Received by:**
Lab Use Only: **Shipper Name:**	**Opened by:**	**Condition:**

Form No. CA-C-WI-003, Rev. 2.13, dated 4/10/2019

Loc: 140
26197

EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST **Log In Number:**

Review Items	Yes	No	NA	If No, what was the problem?
1. Are the shipping containers intact?	✓			☐ **Containers, Broken**
2. Were ambient air containers received intact?			✓	☑ Checked in lab
3. The coolers/containers custody seal if present, is it intact?	✓			☐ Yes ☐ NA
4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID :_____ Correction factor: _____			✓	☐ **Cooler Out of Temp, Client Contacted, Proceed/Cancel** ☐ **Cooler Out of Temp, Same Day Receipt**
5. Were all of the sample containers received intact?	✓			☐ **Containers, Broken**
6. Were samples received in appropriate containers?	✓			☐ **Containers, Improper; Client Contacted; Proceed/Cancel**
7. Do sample container labels match COC? (IDs, Dates, Times)		✓		☐ **COC & Samples Do Not Match** ☑ **COC Incorrect/Incomplete** ☐ **COC Not Received**
8. Were all of the samples listed on the COC received?	✓			☐ **Sample Received, Not on COC** ☐ **Sample on COC, Not Received**
9. Is the date/time of sample collection noted?	✓			☐ **COC; No Date/Time; Client Contacted**
10. Was the sampler identified on the COC?	✓			☐ **Sampler Not Listed on COC**
11. Is the client and project name/# identified?	✓			☐ **COC Incorrect/Incomplete**
12. Are tests/parameters listed for each sample?	✓			☐ **COC No tests on COC**
13. Is the matrix of the samples noted?	✓			☐ **COC Incorrect/Incomplete**
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ **COC Incorrect/Incomplete**
15. Were samples received within holding time?	✓			☐ **Holding Time - Receipt**
16. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **pH Adjusted, pH Included (See box 16A)** ☐ **Incorrect Preservative**
17. Were VOA samples received without headspace?			✓	☐ **Headspace (VOA only)**
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number:			✓	☐ **Residual Chlorine**
19. For 1613B water samples is pH<9?			✓	☐ If no, notify lab to adjust
20. For rad samples was sample activity info. Provided?			✓	☐ Project missing info

Comments/Actions Taken

7. Sample VP-2 canister ID listed as 1080 C should be 34000226. Sample VP-4 canister ID listed as C8518 should be 34000856

Labeling Verified by: **Date:**

pH test strip lot number:

Box 16A: pH Preservation	Box 18A: Residual Chlorine
Preservative:	
Lot Number:	
Exp Date:	
Analyst:	
Date:	
Time:	

Project #: 14002587 PM Instructions:

Sample Receiving Associate: [illegible] Date: 01.25.22

QA026R32.doc, (

TestAmerica Knoxville - Air Canister Initial Pressure Check

Gauge ID: G5
Date: 1/25/2022

Analyst	Sample ID	Asset #	Cleaning Job	Cert	Size (L)	Pressure @ Receipt (-in Hg or +psig)	Time	Comments
BRS	140-26197-a-1	12108	140-25685-a-12	B	6	-3.3	14:24	
BRS	140-26197-a-2	34000226	140-25685-a-9	B	6	-2.1	14:25	
BRS	140-26197-a-3	11962	140-25685-a-6	B	6	-1.2	14:26	
BRS	140-26197-a-4	34000856	140-25685-a-7	B	6	-2.2	14:27	

□ Receiving –Air Can –Calve Open (NCM #_____)
□ Air - Can P -24 to -25 " - Flow Contr. Works (NCM#_____)
□ Air - Can P -24 to -25 " - Flow Contr. Faulty (NCM#_____)
□ Air - Can P Out -26" - Flow Contr. Works (NCM#_____)
□ Air - Can P Out -26" - Flow Contr. Faulty (NCM#_____)
□ Air - Can P Low -24 to -25 " - Grab Sample (NCM#_____)
□ Air - Can P Low -26 "- Grab Sample (NCM#_____)

APPENDIX F

Soil and Groundwater Drum Profile Analytical Laboratory Report And Chain-of-Custody

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ANALYTICAL REPORT

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-214238-1
Client Project/Site: CFA 3798/Los Angeles, CA/2E-1608001

For:
Giles Engineering Associates
2626 Lombardy Lane
Suite 105
Dallas, Texas 75220

Attn: Mr. Mike Pisarik

Authorized for release by:
1/29/2022 12:51:03 PM

Jamie McKinney, Senior Project Manager
(865)291-3000
Jamie.McKinney@Eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Definitions/Glossary

Client: Giles Engineering Associates
Job ID: 400-214238-1
Project/Site: CFA 3798/Los Angeles, CA/2E-1608001

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 400-214238-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-214238-1

Comments
No additional comments.

Receipt
The sample was received on 1/19/2022 10:17 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.5º C.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 400-564154 recovered above the upper control limit for Bromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The laboratory control sample (LCS) for analytical batch 400-564154 recovered outside control limits for the following analytes: Bromomethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Giles Engineering Associates
Project/Site: CFA 3798/Los Angeles, CA/2E-1608001

Job ID: 400-214238-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-214238-1	D4W-D5W-20220116	Water	01/16/22 14:00	01/19/22 10:17

Detection Summary

Client: Giles Engineering Associates
Project/Site: CFA 3798/Los Angeles, CA/2E-1608001

Job ID: 400-214238-1

Client Sample ID: D4W-D5W-20220116 — Lab Sample ID: 400-214238-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	0.65	J	1.0	0.50	ug/L	1		8260B	Total/NA
Chloroform	0.83	J	1.0	0.60	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.65	J	1.0	0.20	ug/L	1		8260B	Total/NA
Tetrachloroethene	21		1.0	0.12	ug/L	1		8260B	Total/NA
Trichloroethene	1.1		1.0	0.15	ug/L	1		8260B	Total/NA
C6-C12	52	J	100	47	ug/L	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	100	J	130	100	ug/L	1		8015B	Total/NA
Arsenic	0.0094	J	0.010	0.0030	mg/L	1		6010B	Total/NA
Barium	0.21		0.010	0.0030	mg/L	1		6010B	Total/NA
Cobalt	0.015		0.010	0.0030	mg/L	1		6010B	Total/NA
Chromium	0.079		0.010	0.0050	mg/L	1		6010B	Total/NA
Copper	0.037		0.020	0.017	mg/L	1		6010B	Total/NA
Molybdenum	0.026	J	0.10	0.0040	mg/L	1		6010B	Total/NA
Nickel	0.059		0.0060	0.0030	mg/L	1		6010B	Total/NA
Lead	0.0073	J	0.010	0.0020	mg/L	1		6010B	Total/NA
Vanadium	0.12		0.020	0.0070	mg/L	1		6010B	Total/NA
Zinc	0.12		0.020	0.0080	mg/L	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 3798/Los Angeles, CA/2E-1608001

Job ID: 400-214238-1

Client Sample ID: D4W-D5W-20220116

Date Collected: 01/16/22 14:00
Date Received: 01/19/22 10:17

Lab Sample ID: 400-214238-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.16	ug/L			01/24/22 17:45	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/24/22 17:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/24/22 17:45	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/24/22 17:45	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/24/22 17:45	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/24/22 17:45	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			01/24/22 17:45	1
1,2,3-Trichlorobenzene	ND		1.0	0.19	ug/L			01/24/22 17:45	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/24/22 17:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/24/22 17:45	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/24/22 17:45	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			01/24/22 17:45	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			01/24/22 17:45	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/24/22 17:45	1
1,2-Dichloroethane	ND		1.0	0.19	ug/L			01/24/22 17:45	1
1,2-Dichloroethene, Total	**0.65**	**J**	1.0	0.50	ug/L			01/24/22 17:45	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/24/22 17:45	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/24/22 17:45	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/24/22 17:45	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/24/22 17:45	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/24/22 17:45	1
1,4-Dioxane	ND		400	200	ug/L			01/24/22 17:45	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/24/22 17:45	1
2-Butanone	ND		25	2.6	ug/L			01/24/22 17:45	1
2-Chlorotoluene	ND		1.0	0.57	ug/L			01/24/22 17:45	1
2-Hexanone	ND		25	1.4	ug/L			01/24/22 17:45	1
4-Chlorotoluene	ND		1.0	0.56	ug/L			01/24/22 17:45	1
4-Isopropyltoluene	ND		1.0	0.71	ug/L			01/24/22 17:45	1
4-Methyl-2-pentanone	ND		25	1.8	ug/L			01/24/22 17:45	1
Acetone	ND		25	10	ug/L			01/24/22 17:45	1
Benzene	ND		1.0	0.13	ug/L			01/24/22 17:45	1
Bromobenzene	ND		1.0	0.54	ug/L			01/24/22 17:45	1
Bromochloromethane	ND		1.0	0.21	ug/L			01/24/22 17:45	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/24/22 17:45	1
Bromoform	ND		5.0	0.25	ug/L			01/24/22 17:45	1
Bromomethane	ND	F1 *+	1.0	0.98	ug/L			01/24/22 17:45	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/24/22 17:45	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/24/22 17:45	1
Chlorobenzene	ND		1.0	0.15	ug/L			01/24/22 17:45	1
Chloroethane	ND		1.0	0.76	ug/L			01/24/22 17:45	1
Chloroform	**0.83**	**J**	1.0	0.60	ug/L			01/24/22 17:45	1
Chloromethane	ND		1.0	0.32	ug/L			01/24/22 17:45	1
cis-1,2-Dichloroethene	**0.65**	**J**	1.0	0.20	ug/L			01/24/22 17:45	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/24/22 17:45	1
Cyclohexane	ND		1.0	0.50	ug/L			01/24/22 17:45	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/24/22 17:45	1
Dibromomethane	ND		5.0	0.22	ug/L			01/24/22 17:45	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/24/22 17:45	1
Diisopropyl ether	ND		1.0	0.20	ug/L			01/24/22 17:45	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 3798/Los Angeles, CA/2E-1608001

Job ID: 400-214238-1

Client Sample ID: D4W-D5W-20220116

Date Collected: 01/16/22 14:00
Date Received: 01/19/22 10:17

Lab Sample ID: 400-214238-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	ND		1.0	0.28	ug/L			01/24/22 17:45	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/24/22 17:45	1
Freon TF	ND		1.0	0.50	ug/L			01/24/22 17:45	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/24/22 17:45	1
Isobutyl alcohol	ND		25	10	ug/L			01/24/22 17:45	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/24/22 17:45	1
m&p-Xylene	ND		5.0	0.63	ug/L			01/24/22 17:45	1
Methyl acetate	ND		5.0	0.61	ug/L			01/24/22 17:45	1
Methyl iodide	ND		1.0	0.90	ug/L			01/24/22 17:45	1
Methyl t-butyl ether	ND		1.0	0.22	ug/L			01/24/22 17:45	1
Methylcyclohexane	ND		1.0	0.50	ug/L			01/24/22 17:45	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/24/22 17:45	1
Naphthalene	ND		1.0	1.0	ug/L			01/24/22 17:45	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/24/22 17:45	1
n-Propylbenzene	ND		1.0	0.69	ug/L			01/24/22 17:45	1
o-Xylene	ND		5.0	0.60	ug/L			01/24/22 17:45	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/24/22 17:45	1
Styrene	ND		1.0	1.0	ug/L			01/24/22 17:45	1
Tert-amyl methyl ether	ND		1.0	0.23	ug/L			01/24/22 17:45	1
tert-Butyl alcohol (TBA)	ND		10	4.9	ug/L			01/24/22 17:45	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/24/22 17:45	1
Tetrachloroethene	**21**		1.0	0.12	ug/L			01/24/22 17:45	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			01/24/22 17:45	1
Toluene	ND		1.0	0.41	ug/L			01/24/22 17:45	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/24/22 17:45	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/24/22 17:45	1
Trichloroethene	**1.1**		1.0	0.15	ug/L			01/24/22 17:45	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			01/24/22 17:45	1
Vinyl acetate	ND		25	0.93	ug/L			01/24/22 17:45	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/24/22 17:45	1
Xylenes, Total	ND		10	1.6	ug/L			01/24/22 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*72 - 119*		*01/24/22 17:45*	*1*
Toluene-d8	*95*		*64 - 132*		*01/24/22 17:45*	*1*
Dibromofluoromethane	*106*		*75 - 126*		*01/24/22 17:45*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	**52**	**J**	100	47	ug/L			01/19/22 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*85*		*69 - 147*		*01/19/22 14:40*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**100**	**J**	130	100	ug/L		01/21/22 09:55	01/21/22 18:07	1
Oil Range Organics (C28-C35)	ND		130	100	ug/L		01/21/22 09:55	01/21/22 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*95*		*21 - 150*	*01/21/22 09:55*	*01/21/22 18:07*	*1*

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 3798/Los Angeles, CA/2E-1608001

Job ID: 400-214238-1

Client Sample ID: D4W-D5W-20220116

Lab Sample ID: 400-214238-1

Date Collected: 01/16/22 14:00
Date Received: 01/19/22 10:17

Matrix: Water

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0050	0.0040	mg/L		01/20/22 11:37	01/21/22 04:36	1
Arsenic	**0.0094**	**J**	0.010	0.0030	mg/L		01/20/22 11:37	01/21/22 04:36	1
Barium	**0.21**		0.010	0.0030	mg/L		01/20/22 11:37	01/21/22 04:36	1
Beryllium	ND		0.0030	0.0010	mg/L		01/20/22 11:37	01/21/22 04:36	1
Cadmium	ND		0.0050	0.0020	mg/L		01/20/22 11:37	01/21/22 04:36	1
Cobalt	**0.015**		0.010	0.0030	mg/L		01/20/22 11:37	01/21/22 04:36	1
Chromium	**0.079**		0.010	0.0050	mg/L		01/20/22 11:37	01/21/22 04:36	1
Copper	**0.037**		0.020	0.017	mg/L		01/20/22 11:37	01/21/22 04:36	1
Molybdenum	**0.026**	**J**	0.10	0.0040	mg/L		01/20/22 11:37	01/21/22 04:36	1
Nickel	**0.059**		0.0060	0.0030	mg/L		01/20/22 11:37	01/21/22 04:36	1
Lead	**0.0073**	**J**	0.010	0.0020	mg/L		01/20/22 11:37	01/21/22 04:36	1
Antimony	ND		0.050	0.022	mg/L		01/20/22 11:37	01/21/22 17:20	1
Selenium	ND		0.020	0.0080	mg/L		01/20/22 11:37	01/21/22 04:36	1
Thallium	ND		0.020	0.0080	mg/L		01/20/22 11:37	01/21/22 04:36	1
Vanadium	**0.12**		0.020	0.0070	mg/L		01/20/22 11:37	01/21/22 04:36	1
Zinc	**0.12**		0.020	0.0080	mg/L		01/20/22 11:37	01/21/22 04:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.15	ug/L		01/21/22 11:00	01/26/22 16:02	1

Surrogate Summary

Client: Giles Engineering Associates
Project/Site: CFA 3798/Los Angeles, CA/2E-1608001

Job ID: 400-214238-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(72-119)	(64-132)	(75-126)
400-214238-1	D4W-D5W-20220116	92	95	106
400-214238-1 MS	D4W-D5W-20220116	90	93	100
400-214238-1 MSD	D4W-D5W-20220116	91	94	101
LCS 400-564154/1002	Lab Control Sample	89	91	102
MB 400-564154/4	Method Blank	91	94	103

Surrogate Legend

BFB = 4-Bromofluorobenzene
TOL = Toluene-d8
DBFM = Dibromofluoromethane

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TFT-F2
Lab Sample ID	Client Sample ID	(69-147)
400-214238-1	D4W-D5W-20220116	85
400-214238-1 MS	D4W-D5W-20220116	85
400-214238-1 MSD	D4W-D5W-20220116	89
LCS 400-563712/1002	Lab Control Sample	97
MB 400-563712/3	Method Blank	96

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTPH1
Lab Sample ID	Client Sample ID	(21-150)
400-214238-1	D4W-D5W-20220116	95
LCS 400-563914/2-A	Lab Control Sample	90
LCSD 400-563914/3-A	Lab Control Sample Dup	95
MB 400-563914/1-A	Method Blank	95

Surrogate Legend

OTPH = o-Terphenyl

QC Association Summary

Client: Giles Engineering Associates
Project/Site: CFA 3798/Los Angeles, CA/2E-1608001

Job ID: 400-214238-1

GC/MS VOA

Analysis Batch: 564154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214238-1	D4W-D5W-20220116	Total/NA	Water	8260B	
MB 400-564154/4	Method Blank	Total/NA	Water	8260B	
LCS 400-564154/1002	Lab Control Sample	Total/NA	Water	8260B	
400-214238-1 MS	D4W-D5W-20220116	Total/NA	Water	8260B	
400-214238-1 MSD	D4W-D5W-20220116	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 563712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214238-1	D4W-D5W-20220116	Total/NA	Water	8015B	
MB 400-563712/3	Method Blank	Total/NA	Water	8015B	
LCS 400-563712/1002	Lab Control Sample	Total/NA	Water	8015B	
400-214238-1 MS	D4W-D5W-20220116	Total/NA	Water	8015B	
400-214238-1 MSD	D4W-D5W-20220116	Total/NA	Water	8015B	

GC Semi VOA

Prep Batch: 563914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214238-1	D4W-D5W-20220116	Total/NA	Water	3510C	
MB 400-563914/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-563914/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 400-563914/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 563989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214238-1	D4W-D5W-20220116	Total/NA	Water	8015B	563914
MB 400-563914/1-A	Method Blank	Total/NA	Water	8015B	563914
LCS 400-563914/2-A	Lab Control Sample	Total/NA	Water	8015B	563914
LCSD 400-563914/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	563914

Metals

Prep Batch: 563819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214238-1	D4W-D5W-20220116	Total/NA	Water	3010A	
MB 400-563819/1-A	Method Blank	Total/NA	Water	3010A	
LCS 400-563819/2-A	Lab Control Sample	Total/NA	Water	3010A	

Prep Batch: 563924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214238-1	D4W-D5W-20220116	Total/NA	Water	7470A	
MB 400-563924/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-563924/15-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 563927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214238-1	D4W-D5W-20220116	Total/NA	Water	6010B	563819
MB 400-563819/1-A	Method Blank	Total/NA	Water	6010B	563819
LCS 400-563819/2-A	Lab Control Sample	Total/NA	Water	6010B	563819

QC Association Summary

Client: Giles Engineering Associates
Project/Site: CFA 3798/Los Angeles, CA/2E-1608001

Job ID: 400-214238-1

Metals

Analysis Batch: 564115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214238-1	D4W-D5W-20220116	Total/NA	Water	6010B	563819
MB 400-563819/1-A	Method Blank	Total/NA	Water	6010B	563819
LCS 400-563819/2-A	Lab Control Sample	Total/NA	Water	6010B	563819

Analysis Batch: 564601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214238-1	D4W-D5W-20220116	Total/NA	Water	7470A	563924
MB 400-563924/14-A	Method Blank	Total/NA	Water	7470A	563924
LCS 400-563924/15-A	Lab Control Sample	Total/NA	Water	7470A	563924

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-564154/4
Matrix: Water
Analysis Batch: 564154

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.16	ug/L			01/24/22 17:19	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/24/22 17:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/24/22 17:19	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/24/22 17:19	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/24/22 17:19	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/24/22 17:19	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			01/24/22 17:19	1
1,2,3-Trichlorobenzene	ND		1.0	0.19	ug/L			01/24/22 17:19	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/24/22 17:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/24/22 17:19	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/24/22 17:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			01/24/22 17:19	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			01/24/22 17:19	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/24/22 17:19	1
1,2-Dichloroethane	ND		1.0	0.19	ug/L			01/24/22 17:19	1
1,2-Dichloroethene, Total	ND		1.0	0.50	ug/L			01/24/22 17:19	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/24/22 17:19	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/24/22 17:19	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/24/22 17:19	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/24/22 17:19	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/24/22 17:19	1
1,4-Dioxane	ND		400	200	ug/L			01/24/22 17:19	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/24/22 17:19	1
2-Butanone	ND		25	2.6	ug/L			01/24/22 17:19	1
2-Chlorotoluene	ND		1.0	0.57	ug/L			01/24/22 17:19	1
2-Hexanone	ND		25	1.4	ug/L			01/24/22 17:19	1
4-Chlorotoluene	ND		1.0	0.56	ug/L			01/24/22 17:19	1
4-Isopropyltoluene	ND		1.0	0.71	ug/L			01/24/22 17:19	1
4-Methyl-2-pentanone	ND		25	1.8	ug/L			01/24/22 17:19	1
Acetone	ND		25	10	ug/L			01/24/22 17:19	1
Benzene	ND		1.0	0.13	ug/L			01/24/22 17:19	1
Bromobenzene	ND		1.0	0.54	ug/L			01/24/22 17:19	1
Bromochloromethane	ND		1.0	0.21	ug/L			01/24/22 17:19	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/24/22 17:19	1
Bromoform	ND		5.0	0.25	ug/L			01/24/22 17:19	1
Bromomethane	ND		1.0	0.98	ug/L			01/24/22 17:19	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/24/22 17:19	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/24/22 17:19	1
Chlorobenzene	ND		1.0	0.15	ug/L			01/24/22 17:19	1
Chloroethane	ND		1.0	0.76	ug/L			01/24/22 17:19	1
Chloroform	ND		1.0	0.60	ug/L			01/24/22 17:19	1
Chloromethane	ND		1.0	0.32	ug/L			01/24/22 17:19	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/24/22 17:19	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/24/22 17:19	1
Cyclohexane	ND		1.0	0.50	ug/L			01/24/22 17:19	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/24/22 17:19	1
Dibromomethane	ND		5.0	0.22	ug/L			01/24/22 17:19	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/24/22 17:19	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-564154/4
Matrix: Water
Analysis Batch: 564154

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diisopropyl ether	ND		1.0	0.20	ug/L			01/24/22 17:19	1
Ethyl tert-butyl ether	ND		1.0	0.28	ug/L			01/24/22 17:19	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/24/22 17:19	1
Freon TF	ND		1.0	0.50	ug/L			01/24/22 17:19	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/24/22 17:19	1
Isobutyl alcohol	ND		25	10	ug/L			01/24/22 17:19	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/24/22 17:19	1
m&p-Xylene	ND		5.0	0.63	ug/L			01/24/22 17:19	1
Methyl acetate	ND		5.0	0.61	ug/L			01/24/22 17:19	1
Methyl iodide	ND		1.0	0.90	ug/L			01/24/22 17:19	1
Methyl t-butyl ether	ND		1.0	0.22	ug/L			01/24/22 17:19	1
Methylcyclohexane	ND		1.0	0.50	ug/L			01/24/22 17:19	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/24/22 17:19	1
Naphthalene	ND		1.0	1.0	ug/L			01/24/22 17:19	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/24/22 17:19	1
n-Propylbenzene	ND		1.0	0.69	ug/L			01/24/22 17:19	1
o-Xylene	ND		5.0	0.60	ug/L			01/24/22 17:19	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/24/22 17:19	1
Styrene	ND		1.0	1.0	ug/L			01/24/22 17:19	1
Tert-amyl methyl ether	ND		1.0	0.23	ug/L			01/24/22 17:19	1
tert-Butyl alcohol (TBA)	ND		10	4.9	ug/L			01/24/22 17:19	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/24/22 17:19	1
Tetrachloroethene	ND		1.0	0.12	ug/L			01/24/22 17:19	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			01/24/22 17:19	1
Toluene	ND		1.0	0.41	ug/L			01/24/22 17:19	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/24/22 17:19	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/24/22 17:19	1
Trichloroethene	ND		1.0	0.15	ug/L			01/24/22 17:19	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			01/24/22 17:19	1
Vinyl acetate	ND		25	0.93	ug/L			01/24/22 17:19	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/24/22 17:19	1
Xylenes, Total	ND		10	1.6	ug/L			01/24/22 17:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*72 - 119*		*01/24/22 17:19*	*1*
Toluene-d8	*94*		*64 - 132*		*01/24/22 17:19*	*1*
Dibromofluoromethane	*103*		*75 - 126*		*01/24/22 17:19*	*1*

Lab Sample ID: LCS 400-564154/1002
Matrix: Water
Analysis Batch: 564154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	47.5		ug/L		95	67 - 131
1,1,1-Trichloroethane	50.0	51.1		ug/L		102	68 - 130
1,1,2,2-Tetrachloroethane	50.0	41.9		ug/L		84	70 - 131
1,1,2-Trichloroethane	50.0	47.7		ug/L		95	70 - 130
1,1-Dichloroethane	50.0	50.6		ug/L		101	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-564154/1002
Matrix: Water
Analysis Batch: 564154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	50.0	48.9		ug/L		98	63 - 134
1,1-Dichloropropene	50.0	51.7		ug/L		103	70 - 130
1,2,3-Trichlorobenzene	50.0	45.4		ug/L		91	60 - 138
1,2,3-Trichloropropane	50.0	41.4		ug/L		83	70 - 130
1,2,4-Trichlorobenzene	50.0	46.2		ug/L		92	60 - 140
1,2,4-Trimethylbenzene	50.0	44.1		ug/L		88	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	39.2		ug/L		78	54 - 135
1,2-Dibromoethane	50.0	47.6		ug/L		95	70 - 130
1,2-Dichlorobenzene	50.0	45.1		ug/L		90	67 - 130
1,2-Dichloroethane	50.0	51.1		ug/L		102	69 - 130
1,2-Dichloropropane	50.0	52.3		ug/L		105	70 - 130
1,3,5-Trimethylbenzene	50.0	43.9		ug/L		88	69 - 130
1,3-Dichlorobenzene	50.0	45.0		ug/L		90	70 - 130
1,3-Dichloropropane	50.0	47.5		ug/L		95	70 - 130
1,4-Dichlorobenzene	50.0	45.0		ug/L		90	70 - 130
1,4-Dioxane	1000	1010		ug/L		101	50 - 160
2,2-Dichloropropane	50.0	47.7		ug/L		95	52 - 135
2-Butanone	200	203		ug/L		102	61 - 145
2-Chlorotoluene	50.0	43.9		ug/L		88	70 - 130
2-Hexanone	200	175		ug/L		88	65 - 137
4-Chlorotoluene	50.0	42.8		ug/L		86	70 - 130
4-Isopropyltoluene	50.0	44.6		ug/L		89	65 - 130
4-Methyl-2-pentanone	200	198		ug/L		99	69 - 138
Acetone	200	218		ug/L		109	43 - 160
Benzene	50.0	52.4		ug/L		105	70 - 130
Bromobenzene	50.0	43.3		ug/L		87	70 - 132
Bromochloromethane	50.0	53.1		ug/L		106	70 - 130
Bromodichloromethane	50.0	51.7		ug/L		103	67 - 133
Bromoform	50.0	39.8		ug/L		80	57 - 140
Bromomethane	50.0	92.0	*+	ug/L		184	10 - 160
Carbon disulfide	50.0	51.0		ug/L		102	61 - 137
Carbon tetrachloride	50.0	50.0		ug/L		100	61 - 137
Chlorobenzene	50.0	49.0		ug/L		98	70 - 130
Chloroethane	50.0	59.5		ug/L		119	55 - 141
Chloroform	50.0	51.9		ug/L		104	69 - 130
Chloromethane	50.0	54.7		ug/L		109	58 - 137
cis-1,2-Dichloroethene	50.0	50.7		ug/L		101	68 - 130
cis-1,3-Dichloropropene	50.0	50.7		ug/L		101	69 - 132
Cyclohexane	50.0	50.4		ug/L		101	70 - 130
Dibromochloromethane	50.0	45.9		ug/L		92	67 - 135
Dibromomethane	50.0	53.7		ug/L		107	70 - 130
Dichlorodifluoromethane	50.0	47.9		ug/L		96	41 - 146
Diisopropyl ether	50.0	45.9		ug/L		92	64 - 132
Ethyl tert-butyl ether	50.0	45.6		ug/L		91	55 - 133
Ethylbenzene	50.0	48.4		ug/L		97	70 - 130
Freon TF	50.0	46.3		ug/L		93	60 - 139
Hexachlorobutadiene	50.0	49.7		ug/L		99	53 - 140
Isobutyl alcohol	1250	1150		ug/L		92	52 - 148
Isopropylbenzene	50.0	49.8		ug/L		100	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-564154/1002
Matrix: Water
Analysis Batch: 564154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m&p-Xylene	50.0	46.3		ug/L		93	70 - 130
Methyl acetate	100	108		ug/L		108	45 - 159
Methyl iodide	50.0	58.3		ug/L		117	27 - 159
Methyl t-butyl ether	50.0	48.2		ug/L		96	66 - 130
Methylcyclohexane	50.0	51.5		ug/L		103	70 - 130
Methylene Chloride	50.0	50.2		ug/L		100	66 - 135
Naphthalene	50.0	41.8		ug/L		84	47 - 149
n-Butylbenzene	50.0	48.2		ug/L		96	67 - 130
n-Propylbenzene	50.0	45.1		ug/L		90	70 - 130
o-Xylene	50.0	47.6		ug/L		95	70 - 130
sec-Butylbenzene	50.0	45.6		ug/L		91	66 - 130
Styrene	50.0	48.5		ug/L		97	70 - 130
Tert-amyl methyl ether	50.0	46.6		ug/L		93	52 - 132
tert-Butyl alcohol (TBA)	500	442		ug/L		88	46 - 143
tert-Butylbenzene	50.0	42.8		ug/L		86	64 - 139
Tetrachloroethene	50.0	48.0		ug/L		96	65 - 130
Tetrahydrofuran	100	95.3		ug/L		95	59 - 145
Toluene	50.0	44.9		ug/L		90	70 - 130
trans-1,2-Dichloroethene	50.0	50.2		ug/L		100	70 - 130
trans-1,3-Dichloropropene	50.0	46.3		ug/L		93	63 - 130
Trichloroethene	50.0	53.0		ug/L		106	70 - 130
Trichlorofluoromethane	50.0	56.0		ug/L		112	65 - 138
Vinyl acetate	100	105		ug/L		105	26 - 160
Vinyl chloride	50.0	55.1		ug/L		110	59 - 136

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*89*		*72 - 119*
Toluene-d8	*91*		*64 - 132*
Dibromofluoromethane	*102*		*75 - 126*

Lab Sample ID: 400-214238-1 MS
Matrix: Water
Analysis Batch: 564154

Client Sample ID: D4W-D5W-20220116
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		50.0	47.1		ug/L		94	59 - 137
1,1,1-Trichloroethane	ND		50.0	48.9		ug/L		98	57 - 142
1,1,2,2-Tetrachloroethane	ND		50.0	44.2		ug/L		88	66 - 135
1,1,2-Trichloroethane	ND		50.0	47.4		ug/L		95	66 - 131
1,1-Dichloroethane	ND		50.0	48.8		ug/L		98	61 - 144
1,1-Dichloroethene	ND		50.0	45.3		ug/L		91	54 - 147
1,1-Dichloropropene	ND		50.0	49.8		ug/L		100	65 - 136
1,2,3-Trichlorobenzene	ND		50.0	46.8		ug/L		94	43 - 145
1,2,3-Trichloropropane	ND		50.0	43.6		ug/L		87	65 - 133
1,2,4-Trichlorobenzene	ND		50.0	47.7		ug/L		95	39 - 148
1,2,4-Trimethylbenzene	ND		50.0	47.5		ug/L		95	50 - 139
1,2-Dibromo-3-Chloropropane	ND		50.0	40.0		ug/L		80	45 - 135
1,2-Dibromoethane	ND		50.0	46.6		ug/L		93	64 - 132

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-214238-1 MS
Matrix: Water
Analysis Batch: 564154

Client Sample ID: D4W-D5W-20220116
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	ND		50.0	47.9		ug/L		96	52 - 137
1,2-Dichloroethane	ND		50.0	49.4		ug/L		99	60 - 141
1,2-Dichloropropane	ND		50.0	50.4		ug/L		101	66 - 137
1,3,5-Trimethylbenzene	ND		50.0	47.1		ug/L		94	52 - 135
1,3-Dichlorobenzene	ND		50.0	48.4		ug/L		97	54 - 135
1,3-Dichloropropane	ND		50.0	47.1		ug/L		94	66 - 133
1,4-Dichlorobenzene	ND		50.0	48.6		ug/L		97	53 - 135
1,4-Dioxane	ND		1000	1020		ug/L		102	10 - 150
2,2-Dichloropropane	ND		50.0	44.1		ug/L		88	42 - 144
2-Butanone	ND		200	175		ug/L		88	55 - 150
2-Chlorotoluene	ND		50.0	47.8		ug/L		96	53 - 134
2-Hexanone	ND		200	165		ug/L		83	65 - 140
4-Chlorotoluene	ND		50.0	46.4		ug/L		93	54 - 133
4-Isopropyltoluene	ND		50.0	47.6		ug/L		95	48 - 139
4-Methyl-2-pentanone	ND		200	184		ug/L		92	63 - 146
Acetone	ND		200	181		ug/L		90	43 - 150
Benzene	ND		50.0	50.6		ug/L		101	56 - 142
Bromobenzene	ND		50.0	46.8		ug/L		94	59 - 136
Bromochloromethane	ND		50.0	50.9		ug/L		102	64 - 140
Bromodichloromethane	ND		50.0	50.0		ug/L		100	59 - 143
Bromoform	ND		50.0	41.7		ug/L		83	50 - 140
Bromomethane	ND	F1 *+	50.0	76.3	F1	ug/L		153	10 - 150
Carbon disulfide	ND		50.0	47.0		ug/L		94	48 - 150
Carbon tetrachloride	ND		50.0	48.7		ug/L		97	55 - 145
Chlorobenzene	ND		50.0	49.2		ug/L		98	64 - 130
Chloroethane	ND		50.0	56.9		ug/L		114	50 - 150
Chloroform	0.83	J	50.0	50.7		ug/L		100	60 - 141
Chloromethane	ND		50.0	52.8		ug/L		106	49 - 148
cis-1,2-Dichloroethene	0.65	J	50.0	49.2		ug/L		97	59 - 143
cis-1,3-Dichloropropene	ND		50.0	48.9		ug/L		98	57 - 140
Cyclohexane	ND		50.0	48.5		ug/L		97	58 - 141
Dibromochloromethane	ND		50.0	44.5		ug/L		89	56 - 143
Dibromomethane	ND		50.0	50.4		ug/L		101	63 - 138
Dichlorodifluoromethane	ND		50.0	44.1		ug/L		88	16 - 150
Diisopropyl ether	ND		50.0	45.9		ug/L		92	60 - 144
Ethyl tert-butyl ether	ND		50.0	44.9		ug/L		90	49 - 137
Ethylbenzene	ND		50.0	48.5		ug/L		97	58 - 131
Freon TF	ND		50.0	43.0		ug/L		86	55 - 150
Hexachlorobutadiene	ND		50.0	52.8		ug/L		106	31 - 149
Isobutyl alcohol	ND		1250	1070		ug/L		86	41 - 150
Isopropylbenzene	ND		50.0	49.3		ug/L		99	56 - 133
m&p-Xylene	ND		50.0	46.9		ug/L		94	57 - 130
Methyl acetate	ND		100	89.0		ug/L		89	21 - 150
Methyl iodide	ND		50.0	56.4		ug/L		113	20 - 150
Methyl t-butyl ether	ND		50.0	43.9		ug/L		88	59 - 137
Methylcyclohexane	ND		50.0	49.7		ug/L		99	62 - 141
Methylene Chloride	ND		50.0	46.3		ug/L		93	60 - 146
Naphthalene	ND		50.0	42.8		ug/L		86	25 - 150
n-Butylbenzene	ND		50.0	52.0		ug/L		104	41 - 142

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-214238-1 MS
Matrix: Water
Analysis Batch: 564154

Client Sample ID: D4W-D5W-20220116
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
n-Propylbenzene	ND		50.0	48.3		ug/L		97	51 - 138
o-Xylene	ND		50.0	47.5		ug/L		95	61 - 130
sec-Butylbenzene	ND		50.0	49.6		ug/L		99	50 - 138
Styrene	ND		50.0	48.2		ug/L		96	58 - 131
Tert-amyl methyl ether	ND		50.0	46.8		ug/L		94	43 - 140
tert-Butyl alcohol (TBA)	ND		500	415		ug/L		83	31 - 150
tert-Butylbenzene	ND		50.0	46.5		ug/L		93	54 - 146
Tetrachloroethene	21		50.0	67.7		ug/L		94	52 - 133
Tetrahydrofuran	ND		100	88.1		ug/L		88	56 - 145
Toluene	ND		50.0	44.8		ug/L		90	65 - 130
trans-1,2-Dichloroethene	ND		50.0	47.2		ug/L		94	61 - 143
trans-1,3-Dichloropropene	ND		50.0	44.7		ug/L		89	53 - 133
Trichloroethene	1.1		50.0	52.2		ug/L		102	64 - 136
Trichlorofluoromethane	ND		50.0	50.9		ug/L		102	54 - 150
Vinyl acetate	ND		100	99.4		ug/L		99	26 - 150
Vinyl chloride	ND		50.0	51.8		ug/L		104	46 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*90*		*72 - 119*
Toluene-d8	*93*		*64 - 132*
Dibromofluoromethane	*100*		*75 - 126*

Lab Sample ID: 400-214238-1 MSD
Matrix: Water
Analysis Batch: 564154

Client Sample ID: D4W-D5W-20220116
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		50.0	47.6		ug/L		95	59 - 137	1	30
1,1,1-Trichloroethane	ND		50.0	50.7		ug/L		101	57 - 142	4	30
1,1,2,2-Tetrachloroethane	ND		50.0	44.3		ug/L		89	66 - 135	0	30
1,1,2-Trichloroethane	ND		50.0	47.3		ug/L		95	66 - 131	0	30
1,1-Dichloroethane	ND		50.0	50.3		ug/L		101	61 - 144	3	30
1,1-Dichloroethene	ND		50.0	48.5		ug/L		97	54 - 147	7	30
1,1-Dichloropropene	ND		50.0	51.8		ug/L		104	65 - 136	4	30
1,2,3-Trichlorobenzene	ND		50.0	48.0		ug/L		96	43 - 145	3	30
1,2,3-Trichloropropane	ND		50.0	45.5		ug/L		91	65 - 133	4	30
1,2,4-Trichlorobenzene	ND		50.0	48.5		ug/L		97	39 - 148	2	30
1,2,4-Trimethylbenzene	ND		50.0	48.5		ug/L		97	50 - 139	2	30
1,2-Dibromo-3-Chloropropane	ND		50.0	40.1		ug/L		80	45 - 135	0	30
1,2-Dibromoethane	ND		50.0	47.7		ug/L		95	64 - 132	2	30
1,2-Dichlorobenzene	ND		50.0	48.2		ug/L		96	52 - 137	1	30
1,2-Dichloroethane	ND		50.0	49.4		ug/L		99	60 - 141	0	30
1,2-Dichloropropane	ND		50.0	51.3		ug/L		103	66 - 137	2	30
1,3,5-Trimethylbenzene	ND		50.0	47.6		ug/L		95	52 - 135	1	30
1,3-Dichlorobenzene	ND		50.0	48.5		ug/L		97	54 - 135	0	30
1,3-Dichloropropane	ND		50.0	47.5		ug/L		95	66 - 133	1	30
1,4-Dichlorobenzene	ND		50.0	48.4		ug/L		97	53 - 135	1	30
1,4-Dioxane	ND		1000	1050		ug/L		105	10 - 150	3	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-214238-1 MSD
Matrix: Water
Analysis Batch: 564154

Client Sample ID: D4W-D5W-20220116
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,2-Dichloropropane	ND		50.0	46.5		ug/L		93	42 - 144	5	31
2-Butanone	ND		200	187		ug/L		94	55 - 150	7	30
2-Chlorotoluene	ND		50.0	49.6		ug/L		99	53 - 134	4	30
2-Hexanone	ND		200	166		ug/L		83	65 - 140	0	30
4-Chlorotoluene	ND		50.0	47.2		ug/L		94	54 - 133	2	30
4-Isopropyltoluene	ND		50.0	48.2		ug/L		96	48 - 139	1	30
4-Methyl-2-pentanone	ND		200	188		ug/L		94	63 - 146	2	30
Acetone	ND		200	191		ug/L		95	43 - 150	5	30
Benzene	ND		50.0	51.9		ug/L		104	56 - 142	3	30
Bromobenzene	ND		50.0	47.2		ug/L		94	59 - 136	1	30
Bromochloromethane	ND		50.0	52.0		ug/L		104	64 - 140	2	30
Bromodichloromethane	ND		50.0	50.4		ug/L		101	59 - 143	1	30
Bromoform	ND		50.0	42.8		ug/L		86	50 - 140	2	30
Bromomethane	ND	F1 *+	50.0	85.1	F1	ug/L		170	10 - 150	11	50
Carbon disulfide	ND		50.0	50.3		ug/L		101	48 - 150	7	30
Carbon tetrachloride	ND		50.0	49.5		ug/L		99	55 - 145	2	30
Chlorobenzene	ND		50.0	49.6		ug/L		99	64 - 130	1	30
Chloroethane	ND		50.0	61.4		ug/L		123	50 - 150	8	30
Chloroform	0.83	J	50.0	51.7		ug/L		102	60 - 141	2	30
Chloromethane	ND		50.0	55.7		ug/L		111	49 - 148	5	31
cis-1,2-Dichloroethene	0.65	J	50.0	51.1		ug/L		101	59 - 143	4	30
cis-1,3-Dichloropropene	ND		50.0	49.6		ug/L		99	57 - 140	1	30
Cyclohexane	ND		50.0	50.4		ug/L		101	58 - 141	4	30
Dibromochloromethane	ND		50.0	46.2		ug/L		92	56 - 143	4	30
Dibromomethane	ND		50.0	51.6		ug/L		103	63 - 138	2	30
Dichlorodifluoromethane	ND		50.0	47.8		ug/L		96	16 - 150	8	31
Diisopropyl ether	ND		50.0	47.3		ug/L		95	60 - 144	3	30
Ethyl tert-butyl ether	ND		50.0	46.5		ug/L		93	49 - 137	3	30
Ethylbenzene	ND		50.0	49.0		ug/L		98	58 - 131	1	30
Freon TF	ND		50.0	46.6		ug/L		93	55 - 150	8	30
Hexachlorobutadiene	ND		50.0	54.0		ug/L		108	31 - 149	2	36
Isobutyl alcohol	ND		1250	1130		ug/L		90	41 - 150	5	40
Isopropylbenzene	ND		50.0	50.6		ug/L		101	56 - 133	3	30
m&p-Xylene	ND		50.0	47.5		ug/L		95	57 - 130	1	30
Methyl acetate	ND		100	91.4		ug/L		91	21 - 150	3	30
Methyl iodide	ND		50.0	58.8		ug/L		118	20 - 150	4	44
Methyl t-butyl ether	ND		50.0	45.8		ug/L		92	59 - 137	4	30
Methylcyclohexane	ND		50.0	50.8		ug/L		102	62 - 141	2	30
Methylene Chloride	ND		50.0	48.6		ug/L		97	60 - 146	5	32
Naphthalene	ND		50.0	44.1		ug/L		88	25 - 150	3	30
n-Butylbenzene	ND		50.0	52.2		ug/L		104	41 - 142	0	31
n-Propylbenzene	ND		50.0	49.1		ug/L		98	51 - 138	2	30
o-Xylene	ND		50.0	48.1		ug/L		96	61 - 130	1	30
sec-Butylbenzene	ND		50.0	50.1		ug/L		100	50 - 138	1	30
Styrene	ND		50.0	48.2		ug/L		96	58 - 131	0	30
Tert-amyl methyl ether	ND		50.0	47.1		ug/L		94	43 - 140	1	30
tert-Butyl alcohol (TBA)	ND		500	459		ug/L		92	31 - 150	10	42
tert-Butylbenzene	ND		50.0	47.1		ug/L		94	54 - 146	1	30
Tetrachloroethene	21		50.0	69.1		ug/L		97	52 - 133	2	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-214238-1 MSD — **Client Sample ID: D4W-D5W-20220116**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 564154

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrahydrofuran	ND		100	84.0		ug/L		84	56 - 145	5	34
Toluene	ND		50.0	46.1		ug/L		92	65 - 130	3	30
trans-1,2-Dichloroethene	ND		50.0	49.8		ug/L		100	61 - 143	5	30
trans-1,3-Dichloropropene	ND		50.0	45.5		ug/L		91	53 - 133	2	30
Trichloroethene	1.1		50.0	53.8		ug/L		105	64 - 136	3	30
Trichlorofluoromethane	ND		50.0	56.8		ug/L		114	54 - 150	11	30
Vinyl acetate	ND		100	103		ug/L		103	26 - 150	4	33
Vinyl chloride	ND		50.0	55.0		ug/L		110	46 - 150	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*91*		*72 - 119*
Toluene-d8	*94*		*64 - 132*
Dibromofluoromethane	*101*		*75 - 126*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 400-563712/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 563712

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100	47	ug/L			01/19/22 11:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*69 - 147*		*01/19/22 11:43*	*1*

Lab Sample ID: LCS 400-563712/1002 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 563712

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C6-C12			1000	921		ug/L		92	85 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*97*		*69 - 147*

Lab Sample ID: 400-214238-1 MS — **Client Sample ID: D4W-D5W-20220116**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 563712

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
C6-C12	52	J	1000	863		ug/L		81	35 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*85*		*69 - 147*

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: 400-214238-1 MSD — **Client Sample ID: D4W-D5W-20220116**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 563712

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C12	52	J	1000	872		ug/L		82	35 - 150	1	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*89*		*69 - 147*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 400-563914/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 563989 — **Prep Batch: 563914**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		130	100	ug/L		01/21/22 09:54	01/21/22 17:06	1
Oil Range Organics (C28-C35)	ND		130	100	ug/L		01/21/22 09:54	01/21/22 17:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*95*		*21 - 150*	*01/21/22 09:54*	*01/21/22 17:06*	*1*

Lab Sample ID: LCS 400-563914/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 563989 — **Prep Batch: 563914**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	16500	13600		ug/L		82	49 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*90*		*21 - 150*

Lab Sample ID: LCSD 400-563914/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 563989 — **Prep Batch: 563914**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	16500	15400		ug/L		93	49 - 128	12	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*95*		*21 - 150*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 400-563819/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 563927 — **Prep Batch: 563819**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0050	0.0040	mg/L		01/20/22 11:37	01/21/22 02:03	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 400-563819/1-A
Matrix: Water
Analysis Batch: 563927

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 563819

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0030	mg/L		01/20/22 11:37	01/21/22 02:03	1
Barium	ND		0.010	0.0030	mg/L		01/20/22 11:37	01/21/22 02:03	1
Beryllium	ND		0.0030	0.0010	mg/L		01/20/22 11:37	01/21/22 02:03	1
Cadmium	ND		0.0050	0.0020	mg/L		01/20/22 11:37	01/21/22 02:03	1
Cobalt	ND		0.010	0.0030	mg/L		01/20/22 11:37	01/21/22 02:03	1
Chromium	ND		0.010	0.0050	mg/L		01/20/22 11:37	01/21/22 02:03	1
Copper	ND		0.020	0.017	mg/L		01/20/22 11:37	01/21/22 02:03	1
Molybdenum	ND		0.10	0.0040	mg/L		01/20/22 11:37	01/21/22 02:03	1
Nickel	ND		0.0060	0.0030	mg/L		01/20/22 11:37	01/21/22 02:03	1
Lead	ND		0.010	0.0020	mg/L		01/20/22 11:37	01/21/22 02:03	1
Selenium	ND		0.020	0.0080	mg/L		01/20/22 11:37	01/21/22 02:03	1
Vanadium	ND		0.020	0.0070	mg/L		01/20/22 11:37	01/21/22 02:03	1
Zinc	ND		0.020	0.0080	mg/L		01/20/22 11:37	01/21/22 02:03	1

Lab Sample ID: MB 400-563819/1-A
Matrix: Water
Analysis Batch: 564115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 563819

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0050	0.0040	mg/L		01/20/22 11:37	01/21/22 16:40	1
Arsenic	ND		0.010	0.0030	mg/L		01/20/22 11:37	01/21/22 16:40	1
Barium	ND		0.010	0.0030	mg/L		01/20/22 11:37	01/21/22 16:40	1
Beryllium	ND		0.0030	0.0010	mg/L		01/20/22 11:37	01/21/22 16:40	1
Cadmium	ND		0.0050	0.0020	mg/L		01/20/22 11:37	01/21/22 16:40	1
Cobalt	ND		0.010	0.0030	mg/L		01/20/22 11:37	01/21/22 16:40	1
Chromium	ND		0.010	0.0050	mg/L		01/20/22 11:37	01/21/22 16:40	1
Copper	ND		0.020	0.017	mg/L		01/20/22 11:37	01/21/22 16:40	1
Molybdenum	ND		0.10	0.0040	mg/L		01/20/22 11:37	01/21/22 16:40	1
Nickel	ND		0.0060	0.0030	mg/L		01/20/22 11:37	01/21/22 16:40	1
Lead	ND		0.010	0.0020	mg/L		01/20/22 11:37	01/21/22 16:40	1
Antimony	ND		0.050	0.022	mg/L		01/20/22 11:37	01/21/22 16:40	1
Selenium	ND		0.020	0.0080	mg/L		01/20/22 11:37	01/21/22 16:40	1
Thallium	ND		0.020	0.0080	mg/L		01/20/22 11:37	01/21/22 16:40	1
Vanadium	ND		0.020	0.0070	mg/L		01/20/22 11:37	01/21/22 16:40	1
Zinc	ND		0.020	0.0080	mg/L		01/20/22 11:37	01/21/22 16:40	1

Lab Sample ID: LCS 400-563819/2-A
Matrix: Water
Analysis Batch: 563927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 563819

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.500	0.443		mg/L		89	80 - 120
Arsenic	1.00	0.929		mg/L		93	80 - 120
Barium	1.00	1.03		mg/L		103	80 - 120
Beryllium	0.500	0.474		mg/L		95	80 - 120
Cadmium	0.500	0.472		mg/L		94	80 - 120
Cobalt	1.00	0.939		mg/L		94	80 - 120
Chromium	1.00	1.09		mg/L		109	80 - 120
Copper	1.00	1.04		mg/L		104	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 400-563819/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 563927 — **Prep Batch: 563819**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Molybdenum	1.00	0.951		mg/L		95	80 - 120
Nickel	1.00	0.934		mg/L		93	80 - 120
Lead	1.00	0.925		mg/L		92	80 - 120
Selenium	1.00	0.889		mg/L		89	80 - 120
Vanadium	1.00	0.932		mg/L		93	80 - 120
Zinc	1.00	0.931		mg/L		93	80 - 120

Lab Sample ID: LCS 400-563819/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 564115 — **Prep Batch: 563819**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.500	0.479		mg/L		96	80 - 120
Arsenic	1.00	0.944		mg/L		94	80 - 120
Barium	1.00	0.983		mg/L		98	80 - 120
Beryllium	0.500	0.487		mg/L		97	80 - 120
Cadmium	0.500	0.481		mg/L		96	80 - 120
Cobalt	1.00	0.965		mg/L		97	80 - 120
Chromium	1.00	0.980		mg/L		98	80 - 120
Copper	1.00	1.02		mg/L		102	80 - 120
Molybdenum	1.00	0.967		mg/L		97	80 - 120
Nickel	1.00	0.951		mg/L		95	80 - 120
Lead	1.00	0.944		mg/L		94	80 - 120
Antimony	1.00	0.906		mg/L		91	80 - 120
Selenium	1.00	0.908		mg/L		91	80 - 120
Thallium	1.00	0.942		mg/L		94	80 - 120
Vanadium	1.00	0.980		mg/L		98	80 - 120
Zinc	1.00	0.961		mg/L		96	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-563924/14-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 564601 — **Prep Batch: 563924**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.15	ug/L		01/21/22 11:00	01/26/22 15:39	1

Lab Sample ID: LCS 400-563924/15-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 564601 — **Prep Batch: 563924**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.01	0.958		ug/L		95	80 - 120

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 3798/Los Angeles, CA/2E-1608001

Job ID: 400-214238-1

Client Sample ID: D4W-D5W-20220116

Lab Sample ID: 400-214238-1

Date Collected: 01/16/22 14:00
Matrix: Water
Date Received: 01/19/22 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	564154	01/24/22 17:45	CAR	TAL PEN
Total/NA	Analysis	8015B		1	5 mL	5 mL	563712	01/19/22 14:40	NTH	TAL PEN
Total/NA	Prep	3510C			243.6 mL	1 mL	563914	01/21/22 09:55	BKL	TAL PEN
Total/NA	Analysis	8015B		1			563989	01/21/22 18:07	JAS	TAL PEN
Total/NA	Prep	3010A			50 mL	50 mL	563819	01/20/22 11:37	KWN	TAL PEN
Total/NA	Analysis	6010B		1			563927	01/21/22 04:36	LDC	TAL PEN
Total/NA	Prep	3010A			50 mL	50 mL	563819	01/20/22 11:37	KWN	TAL PEN
Total/NA	Analysis	6010B		1			564115	01/21/22 17:20	SW	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	563924	01/21/22 11:00	NET	TAL PEN
Total/NA	Analysis	7470A		1			564601	01/26/22 16:02	NET	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-563712/3

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5 mL	5 mL	563712	01/19/22 11:43	NTH	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-563819/1-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	563819	01/20/22 11:37	KWN	TAL PEN
Total/NA	Analysis	6010B		1			563927	01/21/22 02:03	LDC	TAL PEN
Total/NA	Prep	3010A			50 mL	50 mL	563819	01/20/22 11:37	KWN	TAL PEN
Total/NA	Analysis	6010B		1			564115	01/21/22 16:40	SW	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-563914/1-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	563914	01/21/22 09:54	BKL	TAL PEN
Total/NA	Analysis	8015B		1			563989	01/21/22 17:06	JAS	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-563924/14-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			40 mL	40 mL	563924	01/21/22 11:00	NET	TAL PEN
Total/NA	Analysis	7470A		1			564601	01/26/22 15:39	NET	TAL PEN

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 3798/Los Angeles, CA/2E-1608001

Job ID: 400-214238-1

Client Sample ID: Method Blank — Lab Sample ID: MB 400-564154/4

Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	564154	01/24/22 17:19	CAR	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-563712/1002

Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5 mL	5 mL	563712	01/19/22 10:51	NTH	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-563819/2-A

Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	563819	01/20/22 11:37	KWN	TAL PEN
Total/NA	Analysis	6010B		1			563927	01/21/22 02:08	LDC	TAL PEN
Total/NA	Prep	3010A			50 mL	50 mL	563819	01/20/22 11:37	KWN	TAL PEN
Total/NA	Analysis	6010B		1			564115	01/21/22 16:45	SW	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-563914/2-A

Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	563914	01/21/22 09:54	BKL	TAL PEN
Total/NA	Analysis	8015B		1			563989	01/21/22 17:36	JAS	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-563924/15-A

Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			40 mL	40 mL	563924	01/21/22 11:00	NET	TAL PEN
Total/NA	Analysis	7470A		1			564601	01/26/22 15:41	NET	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-564154/1002

Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	564154	01/24/22 15:47	CAR	TAL PEN

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 3798/Los Angeles, CA/2E-1608001

Job ID: 400-214238-1

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-563914/3-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	563914	01/21/22 09:54	BKL	TAL PEN
Total/NA	Analysis	8015B		1			563989	01/21/22 17:51	JAS	TAL PEN

Client Sample ID: D4W-D5W-20220116

Lab Sample ID: 400-214238-1 MS

Date Collected: 01/16/22 14:00
Matrix: Water
Date Received: 01/19/22 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	564154	01/24/22 18:11	CAR	TAL PEN
Total/NA	Analysis	8015B		1	5 mL	5 mL	563712	01/19/22 18:06	NTH	TAL PEN

Client Sample ID: D4W-D5W-20220116

Lab Sample ID: 400-214238-1 MSD

Date Collected: 01/16/22 14:00
Matrix: Water
Date Received: 01/19/22 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	564154	01/24/22 18:37	CAR	TAL PEN
Total/NA	Analysis	8015B		1	5 mL	5 mL	563712	01/19/22 18:25	NTH	TAL PEN

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: Giles Engineering Associates
Project/Site: CFA 3798/Los Angeles, CA/2E-1608001

Job ID: 400-214238-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8015B	Gasoline Range Organics - (GC)	SW846	TAL PEN
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PEN
6010B	Metals (ICP)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
3010A	Preparation, Total Metals	SW846	TAL PEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL PEN
5030B	Purge and Trap	SW846	TAL PEN
7470A	Preparation, Mercury	SW846	TAL PEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Phone (850) 478-2671

Chain of Custody Record

eurofins | Environment Testing America

Client Information

Client Contact: Mr. Mike Pisarik
Company: Giles Engineering Associates
Address: 2626 Lombardy Lane Suite 105
City: Dallas
State, Zip: TX, 75220
Phone: 214-358-5885(Tel) 214-358-5884(Fax)
Email: mpisarik@gilesengr.com
Project Name: CFA 3798/Los Angeles, CA/2E-1608001
Site:

Sampler: J. Voss
Phone:
PWSID:
Due Date Requested:
TAT Requested (days): 5
Compliance Project: Δ Yes Δ No
PO #: Purchase Order not required
WO #:
Project #: 40011728
SSOW#:

Lab PM: McKinney, Jamie A
E-Mail: Jamie.McKinney@Eurofinset.com
Carrier Tracking No(s):
State of Origin:

COC No: 400-107530-38146.1
Page: Page 1 of 1
Job #: 5001

Analysis Requested

400-214238 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO - (MOD) DRO C10-C28	6010B (CA 22), 7470A	8015B_GRO - GRO(C6 - C12)	8260B - (MOD) Routine 8260 + oxygenates	Total Number of containers
			Preservation Code:		X	X	N	D	A	A	X
D4W-D5W-20220116	1/16/22	1400	G	Water	N	Y	X	X	X	X	9

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Special Instructions/Note:

JCV

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	1/17/22 1250	GSI	Amy L	1-19-22 1017	

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 1.5°C IR9

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Giles Engineering Associates

Job Number: 400-214238-1

Login Number: 214238
List Number: 1
Creator: Johnson, Avery D

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-214256-1
Client Project/Site: CFA 4434/Silver Creek & Capital FSU/2E2110007

For:
Giles Engineering Associates
2626 Lombardy Lane
Suite 105
Dallas, Texas 75220

Attn: Mr. Mike Pisarik

Authorized for release by:
1/29/2022 1:43:32 PM

Jamie McKinney, Senior Project Manager
(865)291-3000
Jamie.McKinney@Eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Definitions/Glossary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E2110007

Job ID: 400-214256-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 400-214256-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-214256-1

Comments
No additional comments.

Receipt
The samples were received on 1/19/2022 10:17 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 13.0º C.

Receipt Exceptions
The following samples were received at the laboratory outside the required temperature criteria: COMP (400-214256-1) and TRIP BLANK (400-214256-2). This does not meet regulatory requirements. The client was contacted regarding this issue, and the laboratory was instructed to proceed withl analysis.

The following samples were preserved via freezing on 01.19.2022 at 1500mck: COMP (400-214256-1) and TRIP BLANK (400-214256-2) . This is outside the 48 hour time frame required by the method.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 400-564007 recovered outside acceptance criteria, low biased, for Vinyl chloride. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260B: The laboratory control sample (LCS) for preparation batch 400-564320 and analytical batch 400-564218 recovered outside control limits for the following analytes: Tert-butyl-ethyl ether. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The following sample contained Tetrahydrofuran above the method detection limit (MDL): TRIP BLANK (400-214256-2). Reanalysis was performed with concurring results.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C: The continuing calibration verification (CCV) associated with batch 400-564282 recovered above the upper control limit for 2,4-Dinitrophenol, 4-Nitrophenol, 4,6-Dinitro-2-methylphenol, Pentachlorophenol and Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270C: The laboratory control sample (LCS) for preparation batch 400-564094 and analytical batch 400-564282 recovered outside control limits for the following analytes: 4-Nitrophenol and 4,6-Dinitro-2-methylphenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-564094 and analytical batch 400-564282 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 400-564094 and analytical batch 400-564282 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
Method 8015B: The following sample was diluted because the base dilution for methanol preserved is 1:50: COMP (400-214256-1)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 400-214256-1 (Continued)

Laboratory: Eurofins Pensacola (Continued)

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method 6010B: The post digestion spike % recovery for Silver, Arsenic, Barium, Cadmium, Chromium, Lead and Selenium associated with batch 400-564115 was outside of control limits. The associated sample is: (400-214324-A-1-A PDS).

Methods 7471A, 7471B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-564376 and analytical batch 400-564729 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E2110007

Job ID: 400-214256-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-214256-1	COMP	Solid	01/14/22 08:38	01/19/22 10:17
400-214256-2	TRIP BLANK	Water	01/14/22 00:00	01/19/22 10:17

Detection Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E2110007

Job ID: 400-214256-1

Client Sample ID: COMP — Lab Sample ID: 400-214256-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.012	J	0.022	0.011	mg/Kg	1	☼	8260B	Total/NA
C6-C12	14		6.4	3.2	mg/Kg	50	☼	8015B	Total/NA
Oil Range Organics (C28-C35)	8.8		6.1	2.4	mg/Kg	1	☼	8015B	Total/NA
Arsenic	7.6		1.2	0.71	mg/Kg	1	☼	6010B	Total/NA
Barium	200		1.2	0.21	mg/Kg	1	☼	6010B	Total/NA
Chromium	69		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Lead	9.1		1.2	0.27	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.075		0.018	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 400-214256-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrahydrofuran	4.0	J	5.0	1.5	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E2110007

Job ID: 400-214256-1

Client Sample ID: COMP

Date Collected: 01/14/22 08:38
Date Received: 01/19/22 10:17

Lab Sample ID: 400-214256-1

Matrix: Solid
Percent Solids: 80.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0044	0.00096	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
1,1,1-Trichloroethane	ND		0.0044	0.00096	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
1,1,2,2-Tetrachloroethane	ND		0.0044	0.00072	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
1,1,2-Trichloroethane	ND		0.0044	0.00068	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
1,1-Dichloroethane	ND		0.0044	0.00073	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
1,1-Dichloroethene	ND		0.0044	0.00074	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
1,1-Dichloropropene	ND		0.0044	0.00073	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
1,2,3-Trichlorobenzene	ND		0.0044	0.00096	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
1,2,3-Trichloropropane	ND		0.0044	0.00070	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
1,2,4-Trichlorobenzene	ND		0.0044	0.00081	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
1,2,4-Trimethylbenzene	ND		0.0044	0.00088	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
1,2-Dibromo-3-Chloropropane	ND		0.0044	0.0029	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
1,2-Dibromoethane	ND		0.0044	0.00088	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
1,2-Dichlorobenzene	ND		0.0044	0.00062	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
1,2-Dichloroethane	ND		0.0044	0.00072	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
1,2-Dichloroethene, Total	ND		0.0044	0.00084	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
1,2-Dichloropropane	ND		0.0044	0.00067	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
1,3,5-Trimethylbenzene	ND		0.0044	0.00073	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
1,3-Dichlorobenzene	ND		0.0044	0.00083	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
1,3-Dichloropropane	ND		0.0044	0.00088	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
1,4-Dichlorobenzene	ND		0.0044	0.00075	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
1,4-Dioxane	ND		0.44	0.044	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
2,2-Dichloropropane	ND		0.0044	0.00096	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
2-Butanone	ND		0.022	0.0053	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
2-Chlorotoluene	ND		0.0044	0.00071	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
2-Hexanone	ND		0.022	0.0044	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
4-Chlorotoluene	ND		0.0044	0.00086	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
4-Isopropyltoluene	ND		0.0044	0.00088	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
4-Methyl-2-pentanone	ND		0.022	0.0044	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Acetone	**0.012**	**J**	0.022	0.011	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Benzene	ND		0.0044	0.00059	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Bromobenzene	ND		0.0044	0.0011	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Bromochloromethane	ND		0.0044	0.00071	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Bromodichloromethane	ND		0.0044	0.00081	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Bromoform	ND		0.0044	0.0011	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Bromomethane	ND		0.0044	0.0022	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Carbon disulfide	ND		0.0044	0.00058	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Carbon tetrachloride	ND		0.0044	0.0015	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Chlorobenzene	ND		0.0044	0.00046	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Chloroethane	ND		0.0044	0.0011	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Chloroform	ND		0.0044	0.00075	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Chloromethane	ND		0.0044	0.00088	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
cis-1,2-Dichloroethene	ND		0.0044	0.00067	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
cis-1,3-Dichloropropene	ND		0.0044	0.0011	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Cyclohexane	ND		0.0044	0.00082	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Dibromochloromethane	ND		0.0044	0.0011	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Dibromomethane	ND		0.0044	0.00073	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Dichlorodifluoromethane	ND		0.0044	0.0011	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Diisopropyl ether	ND		0.0044	0.00048	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E2110007

Job ID: 400-214256-1

Client Sample ID: COMP

Date Collected: 01/14/22 08:38
Date Received: 01/19/22 10:17

Lab Sample ID: 400-214256-1

Matrix: Solid
Percent Solids: 80.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	ND	*+	0.0044	0.00061	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Ethylbenzene	ND		0.0044	0.00053	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Freon TF	ND		0.0044	0.00074	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Hexachlorobutadiene	ND		0.0044	0.0022	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Isobutyl alcohol	ND		0.022	0.020	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Isopropylbenzene	ND		0.0044	0.00060	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
m&p-Xylene	ND		0.0044	0.0011	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Methyl acetate	ND		0.0044	0.0040	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Methyl iodide	ND		0.0044	0.0030	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Methyl t-butyl ether	ND		0.0044	0.00088	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Methylcyclohexane	ND		0.0044	0.00052	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Methylene Chloride	ND		0.013	0.0088	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Naphthalene	ND		0.0044	0.0018	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
n-Butylbenzene	ND		0.0044	0.00084	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
n-Propylbenzene	ND		0.0044	0.00079	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
o-Xylene	ND		0.0044	0.00088	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
sec-Butylbenzene	ND		0.0044	0.00083	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Styrene	ND		0.0044	0.00088	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Tert-amyl methyl ether	ND		0.0044	0.00088	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
tert-Butyl alcohol (TBA)	ND		0.0088	0.0070	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
tert-Butylbenzene	ND		0.0044	0.00096	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Tetrachloroethene	ND		0.0044	0.00049	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Tetrahydrofuran	ND		0.0088	0.0044	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Toluene	ND		0.0044	0.00088	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
trans-1,2-Dichloroethene	ND		0.0044	0.00084	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
trans-1,3-Dichloropropene	ND		0.0044	0.00096	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Trichloroethene	ND		0.0044	0.00088	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Trichlorofluoromethane	ND		0.0044	0.00075	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Vinyl acetate	ND		0.022	0.0017	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Vinyl chloride	ND		0.0044	0.00070	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1
Xylenes, Total	ND		0.0088	0.0017	mg/Kg	☼	01/25/22 14:40	01/25/22 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*67 - 130*	*01/25/22 14:40*	*01/25/22 21:29*	*1*
Toluene-d8	*87*		*76 - 127*	*01/25/22 14:40*	*01/25/22 21:29*	*1*
Dibromofluoromethane	*103*		*77 - 127*	*01/25/22 14:40*	*01/25/22 21:29*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
1,2,4,5-Tetrachlorobenzene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
1,2,4-Trichlorobenzene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
1,2-Dichlorobenzene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
1,3-Dichlorobenzene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
1,4-Dichlorobenzene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
1-Methylnaphthalene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
2,2'-oxybis[1-chloropropane]	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
2,3,4,6-Tetrachlorophenol	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
2,4,5-Trichlorophenol	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
2,4,6-Trichlorophenol	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1

Client Sample ID: COMP
Lab Sample ID: 400-214256-1

Date Collected: 01/14/22 08:38
Matrix: Solid
Date Received: 01/19/22 10:17
Percent Solids: 80.7

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
2,4-Dimethylphenol	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
2,4-Dinitrophenol	ND		1.2	0.36	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
2,4-Dinitrotoluene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
2,6-Dinitrotoluene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
2-Chloronaphthalene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
2-Chlorophenol	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
2-Methylnaphthalene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
2-Methylphenol	ND		0.41	0.099	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
2-Nitroaniline	ND		0.41	0.086	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
2-Nitrophenol	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
3 & 4 Methylphenol	ND		0.81	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
3,3'-Dichlorobenzidine	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
3-Nitroaniline	ND		0.41	0.096	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
4,6-Dinitro-2-methylphenol	ND	*+	0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
4-Bromophenyl phenyl ether	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
4-Chloro-3-methylphenol	ND		0.41	0.10	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
4-Chloroaniline	ND	F1	0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
4-Chlorophenyl phenyl ether	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
4-Nitroaniline	ND		0.41	0.14	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
4-Nitrophenol	ND	*+	0.41	0.14	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Acenaphthene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Acenaphthylene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Acetophenone	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Aniline	ND	F1	0.41	0.053	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Anthracene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Atrazine	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Azobenzene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Benzaldehyde	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Benzo[a]anthracene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Benzo[a]pyrene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Benzo[b]fluoranthene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Benzo[g,h,i]perylene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Benzo[k]fluoranthene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Benzoic acid	ND	F1 F2	1.2	0.43	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Benzyl alcohol	ND		0.41	0.14	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Bis(2-chloroethoxy)methane	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Bis(2-chloroethyl)ether	ND		0.41	0.11	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Bis(2-ethylhexyl) phthalate	ND		0.41	0.10	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Butyl benzyl phthalate	ND		0.41	0.088	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Caprolactam	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Carbazole	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Chrysene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Dibenz(a,h)anthracene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Dibenzofuran	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Diethyl phthalate	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Dimethyl phthalate	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Di-n-butyl phthalate	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Di-n-octyl phthalate	ND		0.41	0.15	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E2110007

Job ID: 400-214256-1

Client Sample ID: COMP

Date Collected: 01/14/22 08:38
Date Received: 01/19/22 10:17

Lab Sample ID: 400-214256-1

Matrix: Solid
Percent Solids: 80.7

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Fluorene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Hexachlorobenzene	ND		0.41	0.12	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Hexachlorobutadiene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Hexachlorocyclopentadiene	ND		0.41	0.081	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Hexachloroethane	ND		0.41	0.038	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Indeno[1,2,3-cd]pyrene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Isophorone	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Naphthalene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Nitrobenzene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
N-Nitrosodimethylamine	ND		0.41	0.081	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
N-Nitrosodi-n-propylamine	ND		0.41	0.047	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
N-Nitrosodiphenylamine	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Pentachlorophenol	ND		0.81	0.081	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Phenanthrene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Phenol	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Pyrene	ND		0.41	0.041	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1
Pyridine	ND	F1	0.41	0.19	mg/Kg	☼	01/24/22 11:20	01/25/22 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*71*		*10 - 150*	*01/24/22 11:20*	*01/25/22 16:40*	*1*
2-Fluorophenol (Surr)	*55*		*25 - 128*	*01/24/22 11:20*	*01/25/22 16:40*	*1*
Nitrobenzene-d5 (Surr)	*58*		*15 - 136*	*01/24/22 11:20*	*01/25/22 16:40*	*1*
Phenol-d5 (Surr)	*55*		*29 - 130*	*01/24/22 11:20*	*01/25/22 16:40*	*1*
Terphenyl-d14 (Surr)	*79*		*24 - 146*	*01/24/22 11:20*	*01/25/22 16:40*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	**14**		6.4	3.2	mg/Kg	☼	01/20/22 10:00	01/20/22 15:48	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*95*		*65 - 125*	*01/20/22 10:00*	*01/20/22 15:48*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		6.1	2.4	mg/Kg	☼	01/21/22 13:23	01/24/22 15:25	1
Oil Range Organics (C28-C35)	**8.8**		6.1	2.4	mg/Kg	☼	01/21/22 13:23	01/24/22 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*27 - 150*	*01/21/22 13:23*	*01/24/22 15:25*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.62	0.41	mg/Kg	☼	01/20/22 16:25	01/21/22 19:22	1
Arsenic	**7.6**		1.2	0.71	mg/Kg	☼	01/20/22 16:25	01/21/22 19:22	1
Barium	**200**		1.2	0.21	mg/Kg	☼	01/20/22 16:25	01/21/22 19:22	1
Cadmium	ND		0.62	0.11	mg/Kg	☼	01/20/22 16:25	01/25/22 14:03	1
Chromium	**69**		1.2	0.39	mg/Kg	☼	01/20/22 16:25	01/21/22 19:22	1
Lead	**9.1**		1.2	0.27	mg/Kg	☼	01/20/22 16:25	01/21/22 19:22	1
Selenium	ND		2.5	1.1	mg/Kg	☼	01/20/22 16:25	01/24/22 20:28	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E2110007

Job ID: 400-214256-1

Client Sample ID: COMP

Date Collected: 01/14/22 08:38
Date Received: 01/19/22 10:17

Lab Sample ID: 400-214256-1

Matrix: Solid
Percent Solids: 80.7

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.075		0.018	0.011	mg/Kg	☼	01/26/22 10:36	01/28/22 12:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.7		0.01	0.01	%			01/21/22 09:10	1
Percent Moisture	19.3		0.01	0.01	%			01/21/22 09:10	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E2110007

Job ID: 400-214256-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 400-214256-2

Date Collected: 01/14/22 00:00
Date Received: 01/19/22 10:17

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.16	ug/L			01/22/22 13:52	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/22/22 13:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/22/22 13:52	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/22/22 13:52	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/22/22 13:52	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/22/22 13:52	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			01/22/22 13:52	1
1,2,3-Trichlorobenzene	ND		1.0	0.19	ug/L			01/22/22 13:52	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/22/22 13:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/22/22 13:52	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/22/22 13:52	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			01/22/22 13:52	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			01/22/22 13:52	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/22/22 13:52	1
1,2-Dichloroethane	ND		1.0	0.19	ug/L			01/22/22 13:52	1
1,2-Dichloroethene, Total	ND		1.0	0.50	ug/L			01/22/22 13:52	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/22/22 13:52	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/22/22 13:52	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/22/22 13:52	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/22/22 13:52	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/22/22 13:52	1
1,4-Dioxane	ND		400	200	ug/L			01/22/22 13:52	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/22/22 13:52	1
2-Butanone	ND		25	2.6	ug/L			01/22/22 13:52	1
2-Chlorotoluene	ND		1.0	0.57	ug/L			01/22/22 13:52	1
2-Hexanone	ND		25	1.4	ug/L			01/22/22 13:52	1
4-Chlorotoluene	ND		1.0	0.56	ug/L			01/22/22 13:52	1
4-Isopropyltoluene	ND		1.0	0.71	ug/L			01/22/22 13:52	1
4-Methyl-2-pentanone	ND		25	1.8	ug/L			01/22/22 13:52	1
Acetone	ND		25	10	ug/L			01/22/22 13:52	1
Benzene	ND		1.0	0.13	ug/L			01/22/22 13:52	1
Bromobenzene	ND		1.0	0.54	ug/L			01/22/22 13:52	1
Bromochloromethane	ND		1.0	0.21	ug/L			01/22/22 13:52	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/22/22 13:52	1
Bromoform	ND		5.0	0.25	ug/L			01/22/22 13:52	1
Bromomethane	ND		1.0	0.98	ug/L			01/22/22 13:52	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/22/22 13:52	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/22/22 13:52	1
Chlorobenzene	ND		1.0	0.15	ug/L			01/22/22 13:52	1
Chloroethane	ND		1.0	0.76	ug/L			01/22/22 13:52	1
Chloroform	ND		1.0	0.60	ug/L			01/22/22 13:52	1
Chloromethane	ND		1.0	0.32	ug/L			01/22/22 13:52	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/22/22 13:52	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/22/22 13:52	1
Cyclohexane	ND		1.0	0.50	ug/L			01/22/22 13:52	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/22/22 13:52	1
Dibromomethane	ND		5.0	0.22	ug/L			01/22/22 13:52	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/22/22 13:52	1
Diisopropyl ether	ND		1.0	0.20	ug/L			01/22/22 13:52	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E2110007

Job ID: 400-214256-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 400-214256-2

Date Collected: 01/14/22 00:00
Matrix: Water
Date Received: 01/19/22 10:17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl tert-butyl ether	ND		1.0	0.28	ug/L			01/22/22 13:52	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/22/22 13:52	1
Freon TF	ND		1.0	0.50	ug/L			01/22/22 13:52	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/22/22 13:52	1
Isobutyl alcohol	ND		25	10	ug/L			01/22/22 13:52	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/22/22 13:52	1
m&p-Xylene	ND		5.0	0.63	ug/L			01/22/22 13:52	1
Methyl acetate	ND		5.0	0.61	ug/L			01/22/22 13:52	1
Methyl iodide	ND		1.0	0.90	ug/L			01/22/22 13:52	1
Methyl t-butyl ether	ND		1.0	0.22	ug/L			01/22/22 13:52	1
Methylcyclohexane	ND		1.0	0.50	ug/L			01/22/22 13:52	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/22/22 13:52	1
Naphthalene	ND		1.0	1.0	ug/L			01/22/22 13:52	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/22/22 13:52	1
n-Propylbenzene	ND		1.0	0.69	ug/L			01/22/22 13:52	1
o-Xylene	ND		5.0	0.60	ug/L			01/22/22 13:52	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/22/22 13:52	1
Styrene	ND		1.0	1.0	ug/L			01/22/22 13:52	1
Tert-amyl methyl ether	ND		1.0	0.23	ug/L			01/22/22 13:52	1
tert-Butyl alcohol (TBA)	ND		10	4.9	ug/L			01/22/22 13:52	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/22/22 13:52	1
Tetrachloroethene	ND		1.0	0.12	ug/L			01/22/22 13:52	1
Tetrahydrofuran	**4.0**	**J**	5.0	1.5	ug/L			01/22/22 13:52	1
Toluene	ND		1.0	0.41	ug/L			01/22/22 13:52	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/22/22 13:52	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/22/22 13:52	1
Trichloroethene	ND		1.0	0.15	ug/L			01/22/22 13:52	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			01/22/22 13:52	1
Vinyl acetate	ND		25	0.93	ug/L			01/22/22 13:52	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/22/22 13:52	1
Xylenes, Total	ND		10	1.6	ug/L			01/22/22 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*72 - 119*		*01/22/22 13:52*	*1*
Toluene-d8	*99*		*64 - 132*		*01/22/22 13:52*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*01/22/22 13:52*	*1*

Surrogate Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E2110007

Job ID: 400-214256-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB (67-130)	TOL (76-127)	DBFM (77-127)
400-214256-1	COMP	90	87	103
LCS 400-564320/1-A	Lab Control Sample	96	98	98
MB 400-564320/2-A	Method Blank	88	86	100

Surrogate Legend

BFB = 4-Bromofluorobenzene
TOL = Toluene-d8
DBFM = Dibromofluoromethane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB (72-119)	TOL (64-132)	DBFM (75-126)
400-214256-2	TRIP BLANK	105	99	102
LCS 400-564007/1002	Lab Control Sample	93	97	106
MB 400-564007/5	Method Blank	104	99	102

Surrogate Legend

BFB = 4-Bromofluorobenzene
TOL = Toluene-d8
DBFM = Dibromofluoromethane

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)				
Lab Sample ID	Client Sample ID	TBP (10-150)	2FP (25-128)	NBZ (15-136)	PHL (29-130)	TPHL (24-146)
400-214256-1	COMP	71	55	58	55	79
400-214256-1 MS	COMP	86	51	61	57	74
400-214256-1 MSD	COMP	88	57	66	62	75
LCS 400-564094/2-A	Lab Control Sample	85	58	65	62	75
MB 400-564094/1-A	Method Blank	67	58	61	59	87

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TFT-F2 (65-125)
400-214256-1	COMP	95
LCS 400-563810/1-A	Lab Control Sample	97
MB 400-563810/2-A	Method Blank	94

Surrogate Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E2110007

Job ID: 400-214256-1

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	**Client Sample ID**	**OTPH1 (27-150)**							
400-214256-1	COMP	84							
LCS 400-563959/2-A	Lab Control Sample	89							
MB 400-563959/1-A	Method Blank	92							

Surrogate Legend

OTPH = o-Terphenyl

QC Association Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E2110007

Job ID: 400-214256-1

GC/MS VOA

Analysis Batch: 564007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214256-2	TRIP BLANK	Total/NA	Water	8260B	
MB 400-564007/5	Method Blank	Total/NA	Water	8260B	
LCS 400-564007/1002	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 564218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214256-1	COMP	Total/NA	Solid	8260B	564320
MB 400-564320/2-A	Method Blank	Total/NA	Solid	8260B	564320
LCS 400-564320/1-A	Lab Control Sample	Total/NA	Solid	8260B	564320

Prep Batch: 564320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214256-1	COMP	Total/NA	Solid	5035	
MB 400-564320/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-564320/1-A	Lab Control Sample	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 564094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214256-1	COMP	Total/NA	Solid	3546	
MB 400-564094/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-564094/2-A	Lab Control Sample	Total/NA	Solid	3546	
400-214256-1 MS	COMP	Total/NA	Solid	3546	
400-214256-1 MSD	COMP	Total/NA	Solid	3546	

Analysis Batch: 564282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214256-1	COMP	Total/NA	Solid	8270C	564094
MB 400-564094/1-A	Method Blank	Total/NA	Solid	8270C	564094
LCS 400-564094/2-A	Lab Control Sample	Total/NA	Solid	8270C	564094
400-214256-1 MS	COMP	Total/NA	Solid	8270C	564094
400-214256-1 MSD	COMP	Total/NA	Solid	8270C	564094

GC VOA

Prep Batch: 563810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214256-1	COMP	Total/NA	Solid	5035	
MB 400-563810/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-563810/1-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 563811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214256-1	COMP	Total/NA	Solid	8015B	563810
MB 400-563810/2-A	Method Blank	Total/NA	Solid	8015B	563810
LCS 400-563810/1-A	Lab Control Sample	Total/NA	Solid	8015B	563810

QC Association Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E2110007

Job ID: 400-214256-1

GC Semi VOA

Prep Batch: 563959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214256-1	COMP	Total/NA	Solid	3546	
MB 400-563959/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-563959/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 564082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214256-1	COMP	Total/NA	Solid	8015B	563959
MB 400-563959/1-A	Method Blank	Total/NA	Solid	8015B	563959
LCS 400-563959/2-A	Lab Control Sample	Total/NA	Solid	8015B	563959

Metals

Prep Batch: 563861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214256-1	COMP	Total/NA	Solid	3050B	
MB 400-563861/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 400-563861/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 564115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214256-1	COMP	Total/NA	Solid	6010B	563861
MB 400-563861/1-A	Method Blank	Total/NA	Solid	6010B	563861
LCS 400-563861/2-A	Lab Control Sample	Total/NA	Solid	6010B	563861

Analysis Batch: 564247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214256-1	COMP	Total/NA	Solid	6010B	563861

Analysis Batch: 564368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214256-1	COMP	Total/NA	Solid	6010B	563861

Prep Batch: 564376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214256-1	COMP	Total/NA	Solid	7471B	
MB 400-564376/14-A	Method Blank	Total/NA	Solid	7471B	
LCS 400-564376/15-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 564729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214256-1	COMP	Total/NA	Solid	7471B	564376
MB 400-564376/14-A	Method Blank	Total/NA	Solid	7471B	564376
LCS 400-564376/15-A	Lab Control Sample	Total/NA	Solid	7471B	564376

General Chemistry

Analysis Batch: 563907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214256-1	COMP	Total/NA	Solid	Moisture	

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-564007/5
Matrix: Water
Analysis Batch: 564007

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.16	ug/L			01/22/22 10:02	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/22/22 10:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/22/22 10:02	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/22/22 10:02	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/22/22 10:02	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/22/22 10:02	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			01/22/22 10:02	1
1,2,3-Trichlorobenzene	ND		1.0	0.19	ug/L			01/22/22 10:02	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/22/22 10:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/22/22 10:02	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/22/22 10:02	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			01/22/22 10:02	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			01/22/22 10:02	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/22/22 10:02	1
1,2-Dichloroethane	ND		1.0	0.19	ug/L			01/22/22 10:02	1
1,2-Dichloroethene, Total	ND		1.0	0.50	ug/L			01/22/22 10:02	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/22/22 10:02	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/22/22 10:02	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/22/22 10:02	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/22/22 10:02	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/22/22 10:02	1
1,4-Dioxane	ND		400	200	ug/L			01/22/22 10:02	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/22/22 10:02	1
2-Butanone	ND		25	2.6	ug/L			01/22/22 10:02	1
2-Chlorotoluene	ND		1.0	0.57	ug/L			01/22/22 10:02	1
2-Hexanone	ND		25	1.4	ug/L			01/22/22 10:02	1
4-Chlorotoluene	ND		1.0	0.56	ug/L			01/22/22 10:02	1
4-Isopropyltoluene	ND		1.0	0.71	ug/L			01/22/22 10:02	1
4-Methyl-2-pentanone	ND		25	1.8	ug/L			01/22/22 10:02	1
Acetone	ND		25	10	ug/L			01/22/22 10:02	1
Benzene	ND		1.0	0.13	ug/L			01/22/22 10:02	1
Bromobenzene	ND		1.0	0.54	ug/L			01/22/22 10:02	1
Bromochloromethane	ND		1.0	0.21	ug/L			01/22/22 10:02	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/22/22 10:02	1
Bromoform	ND		5.0	0.25	ug/L			01/22/22 10:02	1
Bromomethane	ND		1.0	0.98	ug/L			01/22/22 10:02	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/22/22 10:02	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/22/22 10:02	1
Chlorobenzene	ND		1.0	0.15	ug/L			01/22/22 10:02	1
Chloroethane	ND		1.0	0.76	ug/L			01/22/22 10:02	1
Chloroform	ND		1.0	0.60	ug/L			01/22/22 10:02	1
Chloromethane	ND		1.0	0.32	ug/L			01/22/22 10:02	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/22/22 10:02	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/22/22 10:02	1
Cyclohexane	ND		1.0	0.50	ug/L			01/22/22 10:02	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/22/22 10:02	1
Dibromomethane	ND		5.0	0.22	ug/L			01/22/22 10:02	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/22/22 10:02	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-564007/5
Matrix: Water
Analysis Batch: 564007

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diisopropyl ether	ND		1.0	0.20	ug/L			01/22/22 10:02	1
Ethyl tert-butyl ether	ND		1.0	0.28	ug/L			01/22/22 10:02	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/22/22 10:02	1
Freon TF	ND		1.0	0.50	ug/L			01/22/22 10:02	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/22/22 10:02	1
Isobutyl alcohol	ND		25	10	ug/L			01/22/22 10:02	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/22/22 10:02	1
m&p-Xylene	ND		5.0	0.63	ug/L			01/22/22 10:02	1
Methyl acetate	ND		5.0	0.61	ug/L			01/22/22 10:02	1
Methyl iodide	ND		1.0	0.90	ug/L			01/22/22 10:02	1
Methyl t-butyl ether	ND		1.0	0.22	ug/L			01/22/22 10:02	1
Methylcyclohexane	ND		1.0	0.50	ug/L			01/22/22 10:02	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/22/22 10:02	1
Naphthalene	ND		1.0	1.0	ug/L			01/22/22 10:02	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/22/22 10:02	1
n-Propylbenzene	ND		1.0	0.69	ug/L			01/22/22 10:02	1
o-Xylene	ND		5.0	0.60	ug/L			01/22/22 10:02	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/22/22 10:02	1
Styrene	ND		1.0	1.0	ug/L			01/22/22 10:02	1
Tert-amyl methyl ether	ND		1.0	0.23	ug/L			01/22/22 10:02	1
tert-Butyl alcohol (TBA)	ND		10	4.9	ug/L			01/22/22 10:02	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/22/22 10:02	1
Tetrachloroethene	ND		1.0	0.12	ug/L			01/22/22 10:02	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			01/22/22 10:02	1
Toluene	ND		1.0	0.41	ug/L			01/22/22 10:02	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/22/22 10:02	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/22/22 10:02	1
Trichloroethene	ND		1.0	0.15	ug/L			01/22/22 10:02	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			01/22/22 10:02	1
Vinyl acetate	ND		25	0.93	ug/L			01/22/22 10:02	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/22/22 10:02	1
Xylenes, Total	ND		10	1.6	ug/L			01/22/22 10:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*72 - 119*		*01/22/22 10:02*	*1*
Toluene-d8	*99*		*64 - 132*		*01/22/22 10:02*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*01/22/22 10:02*	*1*

Lab Sample ID: LCS 400-564007/1002
Matrix: Water
Analysis Batch: 564007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	47.8		ug/L		96	67 - 131
1,1,1-Trichloroethane	50.0	47.7		ug/L		95	68 - 130
1,1,2,2-Tetrachloroethane	50.0	42.5		ug/L		85	70 - 131
1,1,2-Trichloroethane	50.0	46.2		ug/L		92	70 - 130
1,1-Dichloroethane	50.0	44.9		ug/L		90	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-564007/1002
Matrix: Water
Analysis Batch: 564007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	50.0	41.3		ug/L		83	63 - 134
1,1-Dichloropropene	50.0	46.7		ug/L		93	70 - 130
1,2,3-Trichlorobenzene	50.0	48.0		ug/L		96	60 - 138
1,2,3-Trichloropropane	50.0	45.2		ug/L		90	70 - 130
1,2,4-Trichlorobenzene	50.0	48.3		ug/L		97	60 - 140
1,2,4-Trimethylbenzene	50.0	46.0		ug/L		92	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	38.6		ug/L		77	54 - 135
1,2-Dibromoethane	50.0	48.2		ug/L		96	70 - 130
1,2-Dichlorobenzene	50.0	48.4		ug/L		97	67 - 130
1,2-Dichloroethane	50.0	45.0		ug/L		90	69 - 130
1,2-Dichloropropane	50.0	44.5		ug/L		89	70 - 130
1,3,5-Trimethylbenzene	50.0	46.4		ug/L		93	69 - 130
1,3-Dichlorobenzene	50.0	46.9		ug/L		94	70 - 130
1,3-Dichloropropane	50.0	45.5		ug/L		91	70 - 130
1,4-Dichlorobenzene	50.0	48.5		ug/L		97	70 - 130
1,4-Dioxane	1000	979		ug/L		98	50 - 160
2,2-Dichloropropane	50.0	38.1		ug/L		76	52 - 135
2-Butanone	200	172		ug/L		86	61 - 145
2-Chlorotoluene	50.0	44.9		ug/L		90	70 - 130
2-Hexanone	200	163		ug/L		81	65 - 137
4-Chlorotoluene	50.0	46.1		ug/L		92	70 - 130
4-Isopropyltoluene	50.0	46.7		ug/L		93	65 - 130
4-Methyl-2-pentanone	200	167		ug/L		83	69 - 138
Acetone	200	176		ug/L		88	43 - 160
Benzene	50.0	47.6		ug/L		95	70 - 130
Bromobenzene	50.0	46.2		ug/L		92	70 - 132
Bromochloromethane	50.0	49.6		ug/L		99	70 - 130
Bromodichloromethane	50.0	48.3		ug/L		97	67 - 133
Bromoform	50.0	42.7		ug/L		85	57 - 140
Bromomethane	50.0	30.4		ug/L		61	10 - 160
Carbon disulfide	50.0	43.2		ug/L		86	61 - 137
Carbon tetrachloride	50.0	47.8		ug/L		96	61 - 137
Chlorobenzene	50.0	49.3		ug/L		99	70 - 130
Chloroethane	50.0	35.0		ug/L		70	55 - 141
Chloroform	50.0	48.3		ug/L		97	69 - 130
Chloromethane	50.0	35.5		ug/L		71	58 - 137
cis-1,2-Dichloroethene	50.0	44.7		ug/L		89	68 - 130
cis-1,3-Dichloropropene	50.0	46.2		ug/L		92	69 - 132
Cyclohexane	50.0	48.3		ug/L		97	70 - 130
Dibromochloromethane	50.0	48.1		ug/L		96	67 - 135
Dibromomethane	50.0	49.4		ug/L		99	70 - 130
Dichlorodifluoromethane	50.0	37.9		ug/L		76	41 - 146
Diisopropyl ether	50.0	40.8		ug/L		82	64 - 132
Ethyl tert-butyl ether	50.0	42.6		ug/L		85	55 - 133
Ethylbenzene	50.0	48.2		ug/L		96	70 - 130
Freon TF	50.0	39.5		ug/L		79	60 - 139
Hexachlorobutadiene	50.0	52.5		ug/L		105	53 - 140
Isobutyl alcohol	1250	948		ug/L		76	52 - 148
Isopropylbenzene	50.0	50.5		ug/L		101	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-564007/1002
Matrix: Water
Analysis Batch: 564007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m&p-Xylene	50.0	48.2		ug/L		96	70 - 130
Methyl acetate	100	88.6		ug/L		89	45 - 159
Methyl iodide	50.0	47.6		ug/L		95	27 - 159
Methyl t-butyl ether	50.0	42.5		ug/L		85	66 - 130
Methylcyclohexane	50.0	47.0		ug/L		94	70 - 130
Methylene Chloride	50.0	45.7		ug/L		91	66 - 135
Naphthalene	50.0	43.9		ug/L		88	47 - 149
n-Butylbenzene	50.0	45.9		ug/L		92	67 - 130
n-Propylbenzene	50.0	45.8		ug/L		92	70 - 130
o-Xylene	50.0	47.3		ug/L		95	70 - 130
sec-Butylbenzene	50.0	47.6		ug/L		95	66 - 130
Styrene	50.0	48.3		ug/L		97	70 - 130
Tert-amyl methyl ether	50.0	40.7		ug/L		81	52 - 132
tert-Butyl alcohol (TBA)	500	382		ug/L		76	46 - 143
tert-Butylbenzene	50.0	44.7		ug/L		89	64 - 139
Tetrachloroethene	50.0	49.8		ug/L		100	65 - 130
Tetrahydrofuran	100	75.9		ug/L		76	59 - 145
Toluene	50.0	46.9		ug/L		94	70 - 130
trans-1,2-Dichloroethene	50.0	47.1		ug/L		94	70 - 130
trans-1,3-Dichloropropene	50.0	42.2		ug/L		84	63 - 130
Trichloroethene	50.0	51.4		ug/L		103	70 - 130
Trichlorofluoromethane	50.0	38.7		ug/L		77	65 - 138
Vinyl acetate	100	82.0		ug/L		82	26 - 160
Vinyl chloride	50.0	33.0		ug/L		66	59 - 136

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*72 - 119*
Toluene-d8	*97*		*64 - 132*
Dibromofluoromethane	*106*		*75 - 126*

Lab Sample ID: MB 400-564320/2-A
Matrix: Solid
Analysis Batch: 564218

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564320

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0050	0.0011	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
1,1,1-Trichloroethane	ND		0.0050	0.0011	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
1,1,2,2-Tetrachloroethane	ND		0.0050	0.00082	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
1,1,2-Trichloroethane	ND		0.0050	0.00078	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
1,1-Dichloroethane	ND		0.0050	0.00083	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
1,1-Dichloroethene	ND		0.0050	0.00085	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
1,1-Dichloropropene	ND		0.0050	0.00083	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
1,2,3-Trichlorobenzene	ND		0.0050	0.0011	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
1,2,3-Trichloropropane	ND		0.0050	0.00080	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
1,2,4-Trichlorobenzene	ND		0.0050	0.00092	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0010	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0033	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
1,2-Dibromoethane	ND		0.0050	0.0010	mg/Kg		01/25/22 14:40	01/25/22 17:10	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-564320/2-A
Matrix: Solid
Analysis Batch: 564218

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564320

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.0050	0.00071	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
1,2-Dichloroethane	ND		0.0050	0.00082	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
1,2-Dichloroethene, Total	ND		0.0050	0.00096	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
1,2-Dichloropropane	ND		0.0050	0.00076	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
1,3,5-Trimethylbenzene	ND		0.0050	0.00083	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
1,3-Dichlorobenzene	ND		0.0050	0.00095	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
1,3-Dichloropropane	ND		0.0050	0.0010	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
1,4-Dichlorobenzene	ND		0.0050	0.00086	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
1,4-Dioxane	ND		0.50	0.050	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
2,2-Dichloropropane	ND		0.0050	0.0011	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
2-Butanone	ND		0.025	0.0060	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
2-Chlorotoluene	ND		0.0050	0.00081	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
2-Hexanone	ND		0.025	0.0050	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
4-Chlorotoluene	ND		0.0050	0.00098	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
4-Isopropyltoluene	ND		0.0050	0.0010	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
4-Methyl-2-pentanone	ND		0.025	0.0050	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Acetone	ND		0.025	0.012	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Benzene	ND		0.0050	0.00067	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Bromobenzene	ND		0.0050	0.0013	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Bromochloromethane	ND		0.0050	0.00081	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Bromodichloromethane	ND		0.0050	0.00092	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Bromoform	ND		0.0050	0.0013	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Bromomethane	ND		0.0050	0.0025	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Carbon disulfide	ND		0.0050	0.00066	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Carbon tetrachloride	ND		0.0050	0.0017	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Chlorobenzene	ND		0.0050	0.00052	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Chloroethane	ND		0.0050	0.0012	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Chloroform	ND		0.0050	0.00086	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Chloromethane	ND		0.0050	0.0010	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
cis-1,2-Dichloroethene	ND		0.0050	0.00076	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
cis-1,3-Dichloropropene	ND		0.0050	0.0012	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Cyclohexane	ND		0.0050	0.00094	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Dibromochloromethane	ND		0.0050	0.0012	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Dibromomethane	ND		0.0050	0.00083	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Dichlorodifluoromethane	ND		0.0050	0.0013	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Diisopropyl ether	ND		0.0050	0.00055	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Ethyl tert-butyl ether	ND		0.0050	0.00070	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Ethylbenzene	ND		0.0050	0.00061	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Freon TF	ND		0.0050	0.00084	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Hexachlorobutadiene	ND		0.0050	0.0025	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Isobutyl alcohol	ND		0.025	0.023	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Isopropylbenzene	ND		0.0050	0.00068	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
m&p-Xylene	ND		0.0050	0.0013	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Methyl acetate	ND		0.0050	0.0046	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Methyl iodide	ND		0.0050	0.0034	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Methyl t-butyl ether	ND		0.0050	0.0010	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Methylcyclohexane	ND		0.0050	0.00059	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Methylene Chloride	ND		0.015	0.010	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Naphthalene	ND		0.0050	0.0020	mg/Kg		01/25/22 14:40	01/25/22 17:10	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-564320/2-A
Matrix: Solid
Analysis Batch: 564218

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564320

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		0.0050	0.00096	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
n-Propylbenzene	ND		0.0050	0.00090	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
o-Xylene	ND		0.0050	0.0010	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
sec-Butylbenzene	ND		0.0050	0.00095	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Styrene	ND		0.0050	0.0010	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Tert-amyl methyl ether	ND		0.0050	0.0010	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
tert-Butyl alcohol (TBA)	ND		0.010	0.0080	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
tert-Butylbenzene	ND		0.0050	0.0011	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Tetrachloroethene	ND		0.0050	0.00056	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Tetrahydrofuran	ND		0.010	0.0050	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Toluene	ND		0.0050	0.0010	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
trans-1,2-Dichloroethene	ND		0.0050	0.00096	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
trans-1,3-Dichloropropene	ND		0.0050	0.0011	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Trichloroethene	ND		0.0050	0.0010	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Trichlorofluoromethane	ND		0.0050	0.00086	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Vinyl acetate	ND		0.025	0.0019	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Vinyl chloride	ND		0.0050	0.00080	mg/Kg		01/25/22 14:40	01/25/22 17:10	1
Xylenes, Total	ND		0.010	0.0019	mg/Kg		01/25/22 14:40	01/25/22 17:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*67 - 130*	*01/25/22 14:40*	*01/25/22 17:10*	*1*
Toluene-d8	*86*		*76 - 127*	*01/25/22 14:40*	*01/25/22 17:10*	*1*
Dibromofluoromethane	*100*		*77 - 127*	*01/25/22 14:40*	*01/25/22 17:10*	*1*

Lab Sample ID: LCS 400-564320/1-A
Matrix: Solid
Analysis Batch: 564218

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564320

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.0500	0.0593		mg/Kg		119	65 - 130
1,1,1-Trichloroethane	0.0500	0.0548		mg/Kg		110	63 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.0511		mg/Kg		102	60 - 131
1,1,2-Trichloroethane	0.0500	0.0514		mg/Kg		103	65 - 130
1,1-Dichloroethane	0.0500	0.0513		mg/Kg		103	59 - 130
1,1-Dichloroethene	0.0500	0.0549		mg/Kg		110	55 - 137
1,1-Dichloropropene	0.0500	0.0535		mg/Kg		107	65 - 130
1,2,3-Trichlorobenzene	0.0500	0.0567		mg/Kg		113	58 - 135
1,2,3-Trichloropropane	0.0500	0.0515		mg/Kg		103	60 - 130
1,2,4-Trichlorobenzene	0.0500	0.0559		mg/Kg		112	56 - 138
1,2,4-Trimethylbenzene	0.0500	0.0522		mg/Kg		104	66 - 130
1,2-Dibromo-3-Chloropropane	0.0500	0.0556		mg/Kg		111	49 - 130
1,2-Dibromoethane	0.0500	0.0533		mg/Kg		107	67 - 130
1,2-Dichlorobenzene	0.0500	0.0538		mg/Kg		108	64 - 130
1,2-Dichloroethane	0.0500	0.0492		mg/Kg		98	62 - 130
1,2-Dichloropropane	0.0500	0.0531		mg/Kg		106	64 - 130
1,3,5-Trimethylbenzene	0.0500	0.0520		mg/Kg		104	67 - 130
1,3-Dichlorobenzene	0.0500	0.0546		mg/Kg		109	66 - 130
1,3-Dichloropropane	0.0500	0.0520		mg/Kg		104	67 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-564320/1-A
Matrix: Solid
Analysis Batch: 564218

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564320

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0500	0.0553		mg/Kg		111	65 - 130
1,4-Dioxane	1.00	0.900		mg/Kg		90	41 - 148
2,2-Dichloropropane	0.0500	0.0524		mg/Kg		105	51 - 132
2-Butanone	0.200	0.188		mg/Kg		94	55 - 130
2-Chlorotoluene	0.0500	0.0510		mg/Kg		102	67 - 130
2-Hexanone	0.200	0.171		mg/Kg		86	57 - 131
4-Chlorotoluene	0.0500	0.0515		mg/Kg		103	66 - 130
4-Isopropyltoluene	0.0500	0.0530		mg/Kg		106	68 - 130
4-Methyl-2-pentanone	0.200	0.214		mg/Kg		107	58 - 130
Acetone	0.200	0.142		mg/Kg		71	48 - 160
Benzene	0.0500	0.0537		mg/Kg		107	65 - 130
Bromobenzene	0.0500	0.0564		mg/Kg		113	65 - 130
Bromochloromethane	0.0500	0.0551		mg/Kg		110	65 - 130
Bromodichloromethane	0.0500	0.0537		mg/Kg		107	61 - 130
Bromoform	0.0500	0.0608		mg/Kg		122	52 - 136
Bromomethane	0.0500	0.0706		mg/Kg		141	12 - 160
Carbon disulfide	0.0500	0.0525		mg/Kg		105	46 - 141
Carbon tetrachloride	0.0500	0.0530		mg/Kg		106	60 - 130
Chlorobenzene	0.0500	0.0558		mg/Kg		112	70 - 130
Chloroethane	0.0500	0.0592		mg/Kg		118	55 - 134
Chloroform	0.0500	0.0521		mg/Kg		104	62 - 130
Chloromethane	0.0500	0.0509		mg/Kg		102	49 - 136
cis-1,2-Dichloroethene	0.0500	0.0517		mg/Kg		103	53 - 135
cis-1,3-Dichloropropene	0.0500	0.0575		mg/Kg		115	61 - 130
Cyclohexane	0.0500	0.0521		mg/Kg		104	61 - 130
Dibromochloromethane	0.0500	0.0586		mg/Kg		117	58 - 132
Dibromomethane	0.0500	0.0568		mg/Kg		114	65 - 130
Dichlorodifluoromethane	0.0500	0.0316		mg/Kg		63	34 - 143
Diisopropyl ether	0.0500	0.0608		mg/Kg		122	62 - 130
Ethyl tert-butyl ether	0.0500	0.0668	*+	mg/Kg		134	60 - 130
Ethylbenzene	0.0500	0.0532		mg/Kg		106	70 - 130
Freon TF	0.0500	0.0529		mg/Kg		106	47 - 143
Hexachlorobutadiene	0.0500	0.0553		mg/Kg		111	62 - 133
Isobutyl alcohol	1.25	1.22		mg/Kg		98	44 - 136
Isopropylbenzene	0.0500	0.0549		mg/Kg		110	70 - 130
m&p-Xylene	0.0500	0.0511		mg/Kg		102	70 - 130
Methyl acetate	0.100	0.0972		mg/Kg		97	49 - 139
Methyl iodide	0.0500	0.0628		mg/Kg		126	12 - 160
Methyl t-butyl ether	0.0500	0.0535		mg/Kg		107	63 - 130
Methylcyclohexane	0.0500	0.0553		mg/Kg		111	64 - 130
Methylene Chloride	0.0500	0.0556		mg/Kg		111	57 - 132
Naphthalene	0.0500	0.0523		mg/Kg		105	45 - 144
n-Butylbenzene	0.0500	0.0531		mg/Kg		106	66 - 130
n-Propylbenzene	0.0500	0.0537		mg/Kg		107	67 - 130
o-Xylene	0.0500	0.0508		mg/Kg		102	70 - 130
sec-Butylbenzene	0.0500	0.0519		mg/Kg		104	67 - 130
Styrene	0.0500	0.0551		mg/Kg		110	68 - 130
Tert-amyl methyl ether	0.0500	0.0647		mg/Kg		129	50 - 132
tert-Butyl alcohol (TBA)	0.500	0.604		mg/Kg		121	33 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-564320/1-A
Matrix: Solid
Analysis Batch: 564218

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564320

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	0.0500	0.0484		mg/Kg		97	67 - 130
Tetrachloroethene	0.0500	0.0541		mg/Kg		108	67 - 130
Tetrahydrofuran	0.100	0.101		mg/Kg		101	52 - 132
Toluene	0.0500	0.0545		mg/Kg		109	70 - 130
trans-1,2-Dichloroethene	0.0500	0.0564		mg/Kg		113	58 - 134
trans-1,3-Dichloropropene	0.0500	0.0520		mg/Kg		104	60 - 130
Trichloroethene	0.0500	0.0585		mg/Kg		117	65 - 130
Trichlorofluoromethane	0.0500	0.0526		mg/Kg		105	61 - 136
Vinyl acetate	0.100	0.125		mg/Kg		125	24 - 160
Vinyl chloride	0.0500	0.0511		mg/Kg		102	52 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*67 - 130*
Toluene-d8	*98*		*76 - 127*
Dibromofluoromethane	*98*		*77 - 127*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-564094/1-A
Matrix: Solid
Analysis Batch: 564282

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
1,2,4,5-Tetrachlorobenzene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
1,2,4-Trichlorobenzene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
1,2-Dichlorobenzene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
1,3-Dichlorobenzene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
1,4-Dichlorobenzene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
1-Methylnaphthalene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
2,2'-oxybis[1-chloropropane]	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
2,3,4,6-Tetrachlorophenol	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
2,4,5-Trichlorophenol	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
2,4,6-Trichlorophenol	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
2,4-Dichlorophenol	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
2,4-Dimethylphenol	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
2,4-Dinitrophenol	ND		0.99	0.29	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
2,4-Dinitrotoluene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
2,6-Dinitrotoluene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
2-Chloronaphthalene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
2-Chlorophenol	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
2-Methylnaphthalene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
2-Methylphenol	ND		0.33	0.080	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
2-Nitroaniline	ND		0.33	0.070	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
2-Nitrophenol	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
3 & 4 Methylphenol	ND		0.66	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
3,3'-Dichlorobenzidine	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
3-Nitroaniline	ND		0.33	0.078	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
4,6-Dinitro-2-methylphenol	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-564094/1-A
Matrix: Solid
Analysis Batch: 564282

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
4-Chloro-3-methylphenol	ND		0.33	0.081	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
4-Chloroaniline	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
4-Chlorophenyl phenyl ether	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
4-Nitroaniline	ND		0.33	0.11	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
4-Nitrophenol	ND		0.33	0.11	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Acenaphthene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Acenaphthylene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Acetophenone	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Aniline	ND		0.33	0.043	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Anthracene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Atrazine	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Azobenzene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Benzaldehyde	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Benzo[a]anthracene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Benzo[a]pyrene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Benzo[b]fluoranthene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Benzo[g,h,i]perylene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Benzo[k]fluoranthene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Benzoic acid	ND		0.99	0.35	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Benzyl alcohol	ND		0.33	0.11	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Bis(2-chloroethoxy)methane	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Bis(2-chloroethyl)ether	ND		0.33	0.092	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Bis(2-ethylhexyl) phthalate	ND		0.33	0.081	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Butyl benzyl phthalate	ND		0.33	0.071	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Caprolactam	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Carbazole	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Chrysene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Dibenz(a,h)anthracene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Dibenzofuran	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Diethyl phthalate	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Dimethyl phthalate	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Di-n-butyl phthalate	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Di-n-octyl phthalate	ND		0.33	0.12	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Fluoranthene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Fluorene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Hexachlorobenzene	ND		0.33	0.10	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Hexachlorobutadiene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Hexachlorocyclopentadiene	ND		0.33	0.066	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Hexachloroethane	ND		0.33	0.031	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Indeno[1,2,3-cd]pyrene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Isophorone	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Naphthalene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Nitrobenzene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
N-Nitrosodimethylamine	ND		0.33	0.066	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
N-Nitrosodi-n-propylamine	ND		0.33	0.038	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
N-Nitrosodiphenylamine	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Pentachlorophenol	ND		0.66	0.066	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Phenanthrene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-564094/1-A
Matrix: Solid
Analysis Batch: 564282

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Pyrene	ND		0.33	0.033	mg/Kg		01/24/22 11:00	01/25/22 15:17	1
Pyridine	ND		0.33	0.15	mg/Kg		01/24/22 11:00	01/25/22 15:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*67*		*10 - 150*	*01/24/22 11:00*	*01/25/22 15:17*	*1*
2-Fluorophenol (Surr)	*58*		*25 - 128*	*01/24/22 11:00*	*01/25/22 15:17*	*1*
Nitrobenzene-d5 (Surr)	*61*		*15 - 136*	*01/24/22 11:00*	*01/25/22 15:17*	*1*
Phenol-d5 (Surr)	*59*		*29 - 130*	*01/24/22 11:00*	*01/25/22 15:17*	*1*
Terphenyl-d14 (Surr)	*87*		*24 - 146*	*01/24/22 11:00*	*01/25/22 15:17*	*1*

Lab Sample ID: LCS 400-564094/2-A
Matrix: Solid
Analysis Batch: 564282

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564094

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	2.01	1.25		mg/Kg		63	56 - 120
1,2,4,5-Tetrachlorobenzene	2.01	1.39		mg/Kg		69	49 - 120
1,2,4-Trichlorobenzene	2.01	1.31		mg/Kg		65	48 - 120
1,2-Dichlorobenzene	2.01	1.29		mg/Kg		64	49 - 120
1,3-Dichlorobenzene	2.01	1.19		mg/Kg		60	48 - 120
1,4-Dichlorobenzene	2.01	1.35		mg/Kg		67	49 - 120
1-Methylnaphthalene	2.01	1.30		mg/Kg		65	40 - 120
2,2'-oxybis[1-chloropropane]	2.01	1.48		mg/Kg		74	34 - 120
2,3,4,6-Tetrachlorophenol	2.01	1.84		mg/Kg		92	50 - 143
2,4,5-Trichlorophenol	2.01	1.60		mg/Kg		80	53 - 133
2,4,6-Trichlorophenol	2.01	1.54		mg/Kg		77	51 - 125
2,4-Dichlorophenol	2.01	1.42		mg/Kg		71	56 - 120
2,4-Dimethylphenol	2.01	1.66		mg/Kg		83	54 - 120
2,4-Dinitrophenol	4.01	4.89		mg/Kg		122	10 - 138
2,4-Dinitrotoluene	2.01	1.33		mg/Kg		67	59 - 133
2,6-Dinitrotoluene	2.01	1.22		mg/Kg		61	57 - 123
2-Chloronaphthalene	2.01	1.23		mg/Kg		61	55 - 120
2-Chlorophenol	2.01	1.45		mg/Kg		72	52 - 120
2-Methylnaphthalene	2.01	1.23		mg/Kg		61	40 - 120
2-Methylphenol	2.01	1.40		mg/Kg		70	51 - 123
2-Nitroaniline	2.01	1.53		mg/Kg		76	55 - 129
2-Nitrophenol	2.01	1.39		mg/Kg		69	53 - 120
3 & 4 Methylphenol	2.01	1.42		mg/Kg		71	47 - 123
3,3'-Dichlorobenzidine	3.01	2.27		mg/Kg		76	42 - 120
3-Nitroaniline	2.01	1.35		mg/Kg		68	45 - 120
4,6-Dinitro-2-methylphenol	4.01	5.44	*+	mg/Kg		136	35 - 135
4-Bromophenyl phenyl ether	2.01	1.61		mg/Kg		80	51 - 120
4-Chloro-3-methylphenol	2.01	1.55		mg/Kg		77	57 - 124
4-Chloroaniline	2.01	1.07		mg/Kg		53	34 - 120
4-Chlorophenyl phenyl ether	2.01	1.38		mg/Kg		69	56 - 120
4-Nitroaniline	2.01	1.18		mg/Kg		59	52 - 126
4-Nitrophenol	4.01	5.45	*+	mg/Kg		136	38 - 133

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-564094/2-A
Matrix: Solid
Analysis Batch: 564282

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564094

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	2.01	1.34		mg/Kg		67	50 - 120
Acenaphthylene	2.01	1.13		mg/Kg		56	50 - 120
Acetophenone	2.01	1.28		mg/Kg		64	52 - 120
Aniline	2.01	0.861		mg/Kg		43	36 - 120
Anthracene	2.01	1.53		mg/Kg		76	52 - 120
Atrazine	2.00	2.12		mg/Kg		106	44 - 120
Azobenzene	2.01	1.50		mg/Kg		75	50 - 120
Benzaldehyde	2.00	1.15		mg/Kg		57	20 - 120
Benzo[a]anthracene	2.01	1.54		mg/Kg		77	55 - 120
Benzo[a]pyrene	2.01	1.52		mg/Kg		76	54 - 120
Benzo[b]fluoranthene	2.01	1.52		mg/Kg		76	55 - 120
Benzo[g,h,i]perylene	2.01	1.97		mg/Kg		98	45 - 120
Benzo[k]fluoranthene	2.01	1.65		mg/Kg		82	52 - 120
Benzoic acid	8.29	5.80		mg/Kg		70	10 - 139
Benzyl alcohol	2.01	1.41		mg/Kg		70	10 - 127
Bis(2-chloroethoxy)methane	2.01	1.18		mg/Kg		59	52 - 120
Bis(2-chloroethyl)ether	2.01	1.22		mg/Kg		61	28 - 120
Bis(2-ethylhexyl) phthalate	2.01	1.67		mg/Kg		83	58 - 158
Butyl benzyl phthalate	2.01	1.50		mg/Kg		75	58 - 126
Caprolactam	2.00	1.32		mg/Kg		66	53 - 127
Carbazole	2.01	1.52		mg/Kg		76	61 - 132
Chrysene	2.01	1.54		mg/Kg		77	54 - 120
Dibenz(a,h)anthracene	2.01	2.00		mg/Kg		100	49 - 120
Dibenzofuran	2.01	1.24		mg/Kg		62	58 - 120
Diethyl phthalate	2.01	1.72		mg/Kg		86	56 - 128
Dimethyl phthalate	2.01	1.45		mg/Kg		72	58 - 120
Di-n-butyl phthalate	2.01	1.77		mg/Kg		88	64 - 122
Di-n-octyl phthalate	2.01	1.66		mg/Kg		83	57 - 137
Fluoranthene	2.01	1.79		mg/Kg		89	49 - 120
Fluorene	2.01	1.45		mg/Kg		72	47 - 120
Hexachlorobenzene	2.01	2.05		mg/Kg		102	49 - 127
Hexachlorobutadiene	2.01	1.63		mg/Kg		81	43 - 120
Hexachlorocyclopentadiene	2.01	1.81		mg/Kg		91	10 - 140
Hexachloroethane	2.01	1.41		mg/Kg		70	45 - 120
Indeno[1,2,3-cd]pyrene	2.01	1.92		mg/Kg		96	47 - 120
Isophorone	2.01	1.34		mg/Kg		67	50 - 120
Naphthalene	2.01	1.35		mg/Kg		67	41 - 120
Nitrobenzene	2.01	1.36		mg/Kg		68	50 - 120
N-Nitrosodimethylamine	2.01	1.87		mg/Kg		93	35 - 120
N-Nitrosodi-n-propylamine	2.01	1.44		mg/Kg		72	48 - 120
N-Nitrosodiphenylamine	1.99	1.33		mg/Kg		67	54 - 120
Pentachlorophenol	4.01	4.08		mg/Kg		102	32 - 131
Phenanthrene	2.01	1.58		mg/Kg		79	50 - 120
Phenol	2.01	1.33		mg/Kg		66	51 - 120
Pyrene	2.01	1.45		mg/Kg		72	54 - 120
Pyridine	4.01	1.59		mg/Kg		40	29 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-564094/2-A
Matrix: Solid
Analysis Batch: 564282

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564094

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*85*		*10 - 150*
2-Fluorophenol (Surr)	*58*		*25 - 128*
Nitrobenzene-d5 (Surr)	*65*		*15 - 136*
Phenol-d5 (Surr)	*62*		*29 - 130*
Terphenyl-d14 (Surr)	*75*		*24 - 146*

Lab Sample ID: 400-214256-1 MS
Matrix: Solid
Analysis Batch: 564282

Client Sample ID: COMP
Prep Type: Total/NA
Prep Batch: 564094

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	ND		2.47	1.50		mg/Kg	☼	61	40 - 140
1,2,4,5-Tetrachlorobenzene	ND		2.47	1.56		mg/Kg	☼	63	40 - 140
1,2,4-Trichlorobenzene	ND		2.47	1.44		mg/Kg	☼	58	40 - 140
1,2-Dichlorobenzene	ND		2.47	1.38		mg/Kg	☼	56	40 - 140
1,3-Dichlorobenzene	ND		2.47	1.31		mg/Kg	☼	53	40 - 140
1,4-Dichlorobenzene	ND		2.47	1.48		mg/Kg	☼	60	40 - 140
1-Methylnaphthalene	ND		2.47	1.46		mg/Kg	☼	59	40 - 140
2,2'-oxybis[1-chloropropane]	ND		2.47	1.64		mg/Kg	☼	66	40 - 140
2,3,4,6-Tetrachlorophenol	ND		2.47	2.17		mg/Kg	☼	88	40 - 140
2,4,5-Trichlorophenol	ND		2.47	1.95		mg/Kg	☼	79	40 - 140
2,4,6-Trichlorophenol	ND		2.47	1.84		mg/Kg	☼	74	40 - 140
2,4-Dichlorophenol	ND		2.47	1.68		mg/Kg	☼	68	40 - 140
2,4-Dimethylphenol	ND		2.47	1.88		mg/Kg	☼	76	40 - 140
2,4-Dinitrophenol	ND		4.94	3.76		mg/Kg	☼	76	40 - 140
2,4-Dinitrotoluene	ND		2.47	1.65		mg/Kg	☼	67	40 - 140
2,6-Dinitrotoluene	ND		2.47	1.53		mg/Kg	☼	62	40 - 140
2-Chloronaphthalene	ND		2.47	1.42		mg/Kg	☼	58	40 - 140
2-Chlorophenol	ND		2.47	1.56		mg/Kg	☼	63	40 - 140
2-Methylnaphthalene	ND		2.47	1.43		mg/Kg	☼	58	40 - 140
2-Methylphenol	ND		2.47	1.58		mg/Kg	☼	64	40 - 140
2-Nitroaniline	ND		2.47	1.88		mg/Kg	☼	76	40 - 140
2-Nitrophenol	ND		2.47	1.48		mg/Kg	☼	60	40 - 140
3 & 4 Methylphenol	ND		2.47	1.65		mg/Kg	☼	67	40 - 140
3,3'-Dichlorobenzidine	ND		3.71	2.97		mg/Kg	☼	80	40 - 140
3-Nitroaniline	ND		2.47	1.64		mg/Kg	☼	66	40 - 140
4,6-Dinitro-2-methylphenol	ND	*+	4.94	4.94		mg/Kg	☼	100	40 - 140
4-Bromophenyl phenyl ether	ND		2.47	1.95		mg/Kg	☼	79	40 - 140
4-Chloro-3-methylphenol	ND		2.47	1.88		mg/Kg	☼	76	40 - 140
4-Chloroaniline	ND	F1	2.47	1.25		mg/Kg	☼	51	40 - 140
4-Chlorophenyl phenyl ether	ND		2.47	1.69		mg/Kg	☼	68	40 - 140
4-Nitroaniline	ND		2.47	1.42		mg/Kg	☼	58	40 - 140
4-Nitrophenol	ND	*+	4.94	6.28		mg/Kg	☼	127	40 - 140
Acenaphthene	ND		2.47	1.62		mg/Kg	☼	66	40 - 140
Acenaphthylene	ND		2.47	1.39		mg/Kg	☼	56	40 - 140
Acetophenone	ND		2.47	1.43		mg/Kg	☼	58	40 - 140
Aniline	ND	F1	2.47	0.926	F1	mg/Kg	☼	37	40 - 140
Anthracene	ND		2.47	1.86		mg/Kg	☼	75	40 - 140

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-214256-1 MS
Matrix: Solid
Analysis Batch: 564282

Client Sample ID: COMP
Prep Type: Total/NA
Prep Batch: 564094

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	ND		2.47	2.57		mg/Kg	☼	104	40 - 140
Azobenzene	ND		2.47	1.80		mg/Kg	☼	73	40 - 140
Benzaldehyde	ND		2.47	1.39		mg/Kg	☼	57	40 - 140
Benzo[a]anthracene	ND		2.47	1.88		mg/Kg	☼	76	40 - 140
Benzo[a]pyrene	ND		2.47	1.85		mg/Kg	☼	75	40 - 140
Benzo[b]fluoranthene	ND		2.47	1.97		mg/Kg	☼	80	40 - 140
Benzo[g,h,i]perylene	ND		2.47	2.44		mg/Kg	☼	99	40 - 140
Benzo[k]fluoranthene	ND		2.47	2.08		mg/Kg	☼	84	40 - 140
Benzoic acid	ND	F1 F2	10.2	1.51	F1	mg/Kg	☼	15	40 - 140
Benzyl alcohol	ND		2.47	1.59		mg/Kg	☼	64	40 - 140
Bis(2-chloroethoxy)methane	ND		2.47	1.32		mg/Kg	☼	53	40 - 140
Bis(2-chloroethyl)ether	ND		2.47	1.32		mg/Kg	☼	53	40 - 140
Bis(2-ethylhexyl) phthalate	ND		2.47	2.08		mg/Kg	☼	84	40 - 140
Butyl benzyl phthalate	ND		2.47	1.89		mg/Kg	☼	76	40 - 140
Caprolactam	ND		2.47	1.53		mg/Kg	☼	62	40 - 140
Carbazole	ND		2.47	1.82		mg/Kg	☼	73	40 - 140
Chrysene	ND		2.47	1.89		mg/Kg	☼	77	40 - 140
Dibenz(a,h)anthracene	ND		2.47	2.53		mg/Kg	☼	102	40 - 140
Dibenzofuran	ND		2.47	1.52		mg/Kg	☼	62	40 - 140
Diethyl phthalate	ND		2.47	2.12		mg/Kg	☼	86	40 - 140
Dimethyl phthalate	ND		2.47	1.81		mg/Kg	☼	73	40 - 140
Di-n-butyl phthalate	ND		2.47	2.17		mg/Kg	☼	88	40 - 140
Di-n-octyl phthalate	ND		2.47	2.07		mg/Kg	☼	84	40 - 140
Fluoranthene	ND		2.47	2.13		mg/Kg	☼	86	40 - 140
Fluorene	ND		2.47	1.77		mg/Kg	☼	72	40 - 140
Hexachlorobenzene	ND		2.47	2.51		mg/Kg	☼	102	40 - 140
Hexachlorobutadiene	ND		2.47	1.77		mg/Kg	☼	72	40 - 140
Hexachlorocyclopentadiene	ND		2.47	1.86		mg/Kg	☼	75	40 - 140
Hexachloroethane	ND		2.47	1.56		mg/Kg	☼	63	40 - 140
Indeno[1,2,3-cd]pyrene	ND		2.47	2.49		mg/Kg	☼	101	40 - 140
Isophorone	ND		2.47	1.51		mg/Kg	☼	61	40 - 140
Naphthalene	ND		2.47	1.50		mg/Kg	☼	61	40 - 140
Nitrobenzene	ND		2.47	1.50		mg/Kg	☼	61	40 - 140
N-Nitrosodimethylamine	ND		2.47	2.09		mg/Kg	☼	85	40 - 140
N-Nitrosodi-n-propylamine	ND		2.47	1.63		mg/Kg	☼	66	40 - 140
N-Nitrosodiphenylamine	ND		2.45	1.60		mg/Kg	☼	65	40 - 140
Pentachlorophenol	ND		4.94	4.39		mg/Kg	☼	89	40 - 140
Phenanthrene	ND		2.47	1.96		mg/Kg	☼	79	40 - 140
Phenol	ND		2.47	1.49		mg/Kg	☼	60	40 - 140
Pyrene	ND		2.47	1.81		mg/Kg	☼	73	40 - 140
Pyridine	ND	F1	4.94	1.58	F1	mg/Kg	☼	32	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*86*		*10 - 150*
2-Fluorophenol (Surr)	*51*		*25 - 128*
Nitrobenzene-d5 (Surr)	*61*		*15 - 136*
Phenol-d5 (Surr)	*57*		*29 - 130*
Terphenyl-d14 (Surr)	*74*		*24 - 146*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-214256-1 MSD
Matrix: Solid
Analysis Batch: 564282

Client Sample ID: COMP
Prep Type: Total/NA
Prep Batch: 564094

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1'-Biphenyl	ND		2.47	1.62		mg/Kg	☼	65	40 - 140	8	30
1,2,4,5-Tetrachlorobenzene	ND		2.47	1.75		mg/Kg	☼	71	40 - 140	12	30
1,2,4-Trichlorobenzene	ND		2.47	1.64		mg/Kg	☼	66	40 - 140	13	30
1,2-Dichlorobenzene	ND		2.47	1.58		mg/Kg	☼	64	40 - 140	13	30
1,3-Dichlorobenzene	ND		2.47	1.48		mg/Kg	☼	60	40 - 140	12	30
1,4-Dichlorobenzene	ND		2.47	1.64		mg/Kg	☼	66	40 - 140	10	30
1-Methylnaphthalene	ND		2.47	1.56		mg/Kg	☼	63	40 - 140	7	30
2,2'-oxybis[1-chloropropane]	ND		2.47	1.79		mg/Kg	☼	73	40 - 140	9	30
2,3,4,6-Tetrachlorophenol	ND		2.47	2.42		mg/Kg	☼	98	40 - 140	11	30
2,4,5-Trichlorophenol	ND		2.47	2.06		mg/Kg	☼	83	40 - 140	6	30
2,4,6-Trichlorophenol	ND		2.47	1.91		mg/Kg	☼	77	40 - 140	4	30
2,4-Dichlorophenol	ND		2.47	1.79		mg/Kg	☼	72	40 - 140	6	30
2,4-Dimethylphenol	ND		2.47	2.01		mg/Kg	☼	81	40 - 140	7	30
2,4-Dinitrophenol	ND		4.94	4.36		mg/Kg	☼	88	40 - 140	15	30
2,4-Dinitrotoluene	ND		2.47	1.78		mg/Kg	☼	72	40 - 140	8	30
2,6-Dinitrotoluene	ND		2.47	1.59		mg/Kg	☼	64	40 - 140	4	30
2-Chloronaphthalene	ND		2.47	1.63		mg/Kg	☼	66	40 - 140	14	30
2-Chlorophenol	ND		2.47	1.76		mg/Kg	☼	71	40 - 140	12	30
2-Methylnaphthalene	ND		2.47	1.51		mg/Kg	☼	61	40 - 140	6	30
2-Methylphenol	ND		2.47	1.73		mg/Kg	☼	70	40 - 140	9	30
2-Nitroaniline	ND		2.47	2.02		mg/Kg	☼	82	40 - 140	7	30
2-Nitrophenol	ND		2.47	1.68		mg/Kg	☼	68	40 - 140	13	30
3 & 4 Methylphenol	ND		2.47	1.74		mg/Kg	☼	71	40 - 140	6	30
3,3'-Dichlorobenzidine	ND		3.71	3.25		mg/Kg	☼	88	40 - 140	9	30
3-Nitroaniline	ND		2.47	1.79		mg/Kg	☼	72	40 - 140	8	30
4,6-Dinitro-2-methylphenol	ND	*+	4.94	5.53		mg/Kg	☼	112	40 - 140	11	30
4-Bromophenyl phenyl ether	ND		2.47	2.03		mg/Kg	☼	82	40 - 140	4	30
4-Chloro-3-methylphenol	ND		2.47	1.97		mg/Kg	☼	80	40 - 140	5	30
4-Chloroaniline	ND	F1	2.47	0.960	F1	mg/Kg	☼	39	40 - 140	26	30
4-Chlorophenyl phenyl ether	ND		2.47	1.84		mg/Kg	☼	75	40 - 140	9	30
4-Nitroaniline	ND		2.47	1.50		mg/Kg	☼	61	40 - 140	6	30
4-Nitrophenol	ND	*+	4.94	6.82		mg/Kg	☼	138	40 - 140	8	30
Acenaphthene	ND		2.47	1.73		mg/Kg	☼	70	40 - 140	6	30
Acenaphthylene	ND		2.47	1.50		mg/Kg	☼	61	40 - 140	7	30
Acetophenone	ND		2.47	1.54		mg/Kg	☼	62	40 - 140	8	30
Aniline	ND	F1	2.47	1.03		mg/Kg	☼	42	40 - 140	11	30
Anthracene	ND		2.47	1.97		mg/Kg	☼	80	40 - 140	6	30
Atrazine	ND		2.47	2.74		mg/Kg	☼	111	40 - 140	7	30
Azobenzene	ND		2.47	1.93		mg/Kg	☼	78	40 - 140	7	30
Benzaldehyde	ND		2.47	1.44		mg/Kg	☼	59	40 - 140	3	30
Benzo[a]anthracene	ND		2.47	2.01		mg/Kg	☼	81	40 - 140	7	30
Benzo[a]pyrene	ND		2.47	1.97		mg/Kg	☼	80	40 - 140	6	30
Benzo[b]fluoranthene	ND		2.47	2.05		mg/Kg	☼	83	40 - 140	4	30
Benzo[g,h,i]perylene	ND		2.47	2.51		mg/Kg	☼	101	40 - 140	3	30
Benzo[k]fluoranthene	ND		2.47	2.19		mg/Kg	☼	89	40 - 140	5	30
Benzoic acid	ND	F1 F2	10.2	2.25	F1 F2	mg/Kg	☼	22	40 - 140	39	30
Benzyl alcohol	ND		2.47	1.72		mg/Kg	☼	70	40 - 140	8	30
Bis(2-chloroethoxy)methane	ND		2.47	1.44		mg/Kg	☼	58	40 - 140	9	30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-214256-1 MSD
Matrix: Solid
Analysis Batch: 564282

Client Sample ID: COMP
Prep Type: Total/NA
Prep Batch: 564094

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-chloroethyl)ether	ND		2.47	1.46		mg/Kg	☼	59	40 - 140	10	30
Bis(2-ethylhexyl) phthalate	ND		2.47	2.16		mg/Kg	☼	87	40 - 140	4	30
Butyl benzyl phthalate	ND		2.47	1.94		mg/Kg	☼	78	40 - 140	3	30
Caprolactam	ND		2.47	1.59		mg/Kg	☼	64	40 - 140	4	30
Carbazole	ND		2.47	1.93		mg/Kg	☼	78	40 - 140	6	30
Chrysene	ND		2.47	1.99		mg/Kg	☼	81	40 - 140	5	30
Dibenz(a,h)anthracene	ND		2.47	2.64		mg/Kg	☼	107	40 - 140	4	30
Dibenzofuran	ND		2.47	1.71		mg/Kg	☼	69	40 - 140	12	30
Diethyl phthalate	ND		2.47	2.33		mg/Kg	☼	94	40 - 140	9	30
Dimethyl phthalate	ND		2.47	1.90		mg/Kg	☼	77	40 - 140	5	30
Di-n-butyl phthalate	ND		2.47	2.31		mg/Kg	☼	94	40 - 140	6	30
Di-n-octyl phthalate	ND		2.47	2.21		mg/Kg	☼	89	40 - 140	7	30
Fluoranthene	ND		2.47	2.27		mg/Kg	☼	92	40 - 140	6	30
Fluorene	ND		2.47	1.97		mg/Kg	☼	80	40 - 140	11	30
Hexachlorobenzene	ND		2.47	2.70		mg/Kg	☼	109	40 - 140	7	30
Hexachlorobutadiene	ND		2.47	2.03		mg/Kg	☼	82	40 - 140	14	30
Hexachlorocyclopentadiene	ND		2.47	2.24		mg/Kg	☼	91	40 - 140	18	30
Hexachloroethane	ND		2.47	1.73		mg/Kg	☼	70	40 - 140	10	30
Indeno[1,2,3-cd]pyrene	ND		2.47	2.57		mg/Kg	☼	104	40 - 140	3	30
Isophorone	ND		2.47	1.63		mg/Kg	☼	66	40 - 140	8	30
Naphthalene	ND		2.47	1.70		mg/Kg	☼	69	40 - 140	13	30
Nitrobenzene	ND		2.47	1.65		mg/Kg	☼	67	40 - 140	10	30
N-Nitrosodimethylamine	ND		2.47	2.14		mg/Kg	☼	87	40 - 140	2	30
N-Nitrosodi-n-propylamine	ND		2.47	1.75		mg/Kg	☼	71	40 - 140	7	30
N-Nitrosodiphenylamine	ND		2.45	1.73		mg/Kg	☼	70	40 - 140	8	30
Pentachlorophenol	ND		4.94	4.47		mg/Kg	☼	91	40 - 140	2	30
Phenanthrene	ND		2.47	2.03		mg/Kg	☼	82	40 - 140	4	30
Phenol	ND		2.47	1.67		mg/Kg	☼	68	40 - 140	11	30
Pyrene	ND		2.47	1.82		mg/Kg	☼	74	40 - 140	1	30
Pyridine	ND	F1	4.94	1.70	F1	mg/Kg	☼	34	40 - 140	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*88*		*10 - 150*
2-Fluorophenol (Surr)	*57*		*25 - 128*
Nitrobenzene-d5 (Surr)	*66*		*15 - 136*
Phenol-d5 (Surr)	*62*		*29 - 130*
Terphenyl-d14 (Surr)	*75*		*24 - 146*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 400-563810/2-A
Matrix: Solid
Analysis Batch: 563811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 563810

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		0.10	0.050	mg/Kg		01/20/22 10:00	01/20/22 14:27	1

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: MB 400-563810/2-A
Matrix: Solid
Analysis Batch: 563811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 563810

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	94		65 - 125	01/20/22 10:00	01/20/22 14:27	1

Lab Sample ID: LCS 400-563810/1-A
Matrix: Solid
Analysis Batch: 563811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 563810

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C12	1.00	0.913		mg/Kg		91	62 - 141

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	97		65 - 125

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 400-563959/1-A
Matrix: Solid
Analysis Batch: 564082

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 563959

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		5.0	2.0	mg/Kg		01/21/22 13:22	01/24/22 11:02	1
Oil Range Organics (C28-C35)	ND		5.0	2.0	mg/Kg		01/21/22 13:22	01/24/22 11:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	92		27 - 150	01/21/22 13:22	01/24/22 11:02	1

Lab Sample ID: LCS 400-563959/2-A
Matrix: Solid
Analysis Batch: 564082

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 563959

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	276	228		mg/Kg		83	38 - 116

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	89		27 - 150

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 400-563861/1-A
Matrix: Solid
Analysis Batch: 564115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 563861

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.50	0.33	mg/Kg		01/20/22 16:25	01/21/22 18:16	1
Arsenic	ND		1.0	0.57	mg/Kg		01/20/22 16:25	01/21/22 18:16	1
Barium	ND		1.0	0.17	mg/Kg		01/20/22 16:25	01/21/22 18:16	1
Cadmium	ND		0.50	0.088	mg/Kg		01/20/22 16:25	01/21/22 18:16	1
Chromium	ND		1.0	0.31	mg/Kg		01/20/22 16:25	01/21/22 18:16	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 400-563861/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 564115 — **Prep Batch: 563861**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.0	0.22	mg/Kg		01/20/22 16:25	01/21/22 18:16	1
Selenium	ND		2.0	0.87	mg/Kg		01/20/22 16:25	01/21/22 18:16	1

Lab Sample ID: LCS 400-563861/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 564115 — **Prep Batch: 563861**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	50.3	46.3		mg/Kg		92	80 - 120
Arsenic	101	93.0		mg/Kg		93	80 - 120
Barium	101	101		mg/Kg		100	80 - 120
Cadmium	50.3	47.6		mg/Kg		95	80 - 120
Chromium	101	99.6		mg/Kg		99	80 - 120
Lead	101	96.2		mg/Kg		96	80 - 120
Selenium	101	89.0		mg/Kg		89	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 400-564376/14-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 564729 — **Prep Batch: 564376**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.013	0.0080	mg/Kg		01/26/22 10:36	01/28/22 11:47	1

Lab Sample ID: LCS 400-564376/15-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 564729 — **Prep Batch: 564376**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0669	0.0713		mg/Kg		107	80 - 120

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E2110007

Job ID: 400-214256-1

Client Sample ID: COMP
Date Collected: 01/14/22 08:38
Date Received: 01/19/22 10:17

Lab Sample ID: 400-214256-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			563907	01/21/22 09:10	WJM	TAL PEN

Client Sample ID: COMP
Date Collected: 01/14/22 08:38
Date Received: 01/19/22 10:17

Lab Sample ID: 400-214256-1
Matrix: Solid
Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.078 g	5.00 g	564320	01/25/22 14:40	BPO	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	564218	01/25/22 21:29	BPO	TAL PEN
Total/NA	Prep	3546			15.06 g	1 mL	564094	01/24/22 11:20	NGB	TAL PEN
Total/NA	Analysis	8270C		1			564282	01/25/22 16:40	S1B	TAL PEN
Total/NA	Prep	5035			5.925 g	5.00 g	563810	01/20/22 10:00	NTH	TAL PEN
Total/NA	Analysis	8015B		50	5 mL	5 mL	563811	01/20/22 15:48	NTH	TAL PEN
Total/NA	Prep	3546			15.33 g	1 mL	563959	01/21/22 13:23	NGB	TAL PEN
Total/NA	Analysis	8015B		1			564082	01/24/22 15:25	JAS	TAL PEN
Total/NA	Prep	3050B			.4966 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564115	01/21/22 19:22	SW	TAL PEN
Total/NA	Prep	3050B			.4966 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564247	01/24/22 20:28	SW	TAL PEN
Total/NA	Prep	3050B			.4966 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564368	01/25/22 14:03	SW	TAL PEN
Total/NA	Prep	7471B			.5458 g	40 mL	564376	01/26/22 10:36	NET	TAL PEN
Total/NA	Analysis	7471B		1			564729	01/28/22 12:34	NET	TAL PEN

Client Sample ID: TRIP BLANK
Date Collected: 01/14/22 00:00
Date Received: 01/19/22 10:17

Lab Sample ID: 400-214256-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	564007	01/22/22 13:52	BEP	TAL PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-563810/2-A
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5.00 g	563810	01/20/22 10:00	NTH	TAL PEN
Total/NA	Analysis	8015B		1	5 mL	5 mL	563811	01/20/22 14:27	NTH	TAL PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-563861/1-A
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.4981 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564115	01/21/22 18:16	SW	TAL PEN

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E2110007

Job ID: 400-214256-1

Client Sample ID: Method Blank — Lab Sample ID: MB 400-563959/1-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15 g	1 mL	563959	01/21/22 13:22	NGB	TAL PEN
Total/NA	Analysis	8015B		1			564082	01/24/22 11:02	JAS	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-564007/5

Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	564007	01/22/22 10:02	BEP	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-564094/1-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15 g	1 mL	564094	01/24/22 11:00	NGB	TAL PEN
Total/NA	Analysis	8270C		1			564282	01/25/22 15:17	S1B	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-564320/2-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5.00 g	564320	01/25/22 14:40	BPO	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	564218	01/25/22 17:10	BPO	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-564376/14-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			.6023 g	40 mL	564376	01/26/22 10:36	NET	TAL PEN
Total/NA	Analysis	7471B		1			564729	01/28/22 11:47	NET	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-563810/1-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5.00 g	563810	01/20/22 10:00	NTH	TAL PEN
Total/NA	Analysis	8015B		1	5 mL	5 mL	563811	01/20/22 14:01	NTH	TAL PEN

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E2110007

Job ID: 400-214256-1

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-563861/2-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.4973 g	50 mL	563861	01/20/22 16:25	NB	TAL PEN
Total/NA	Analysis	6010B		1			564115	01/21/22 18:22	SW	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-563959/2-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15 g	1 mL	563959	01/21/22 13:22	NGB	TAL PEN
Total/NA	Analysis	8015B		1			564082	01/24/22 11:32	JAS	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-564007/1002

Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	564007	01/22/22 09:02	BEP	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-564094/2-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15 g	1 mL	564094	01/24/22 11:00	NGB	TAL PEN
Total/NA	Analysis	8270C		1			564282	01/25/22 15:38	S1B	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-564320/1-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5.00 g	564320	01/25/22 14:40	BPO	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	564218	01/25/22 15:33	BPO	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-564376/15-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			.6020 g	40 mL	564376	01/26/22 10:36	NET	TAL PEN
Total/NA	Analysis	7471B		1			564729	01/28/22 11:49	NET	TAL PEN

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E2110007

Job ID: 400-214256-1

Client Sample ID: COMP

Date Collected: 01/14/22 08:38
Date Received: 01/19/22 10:17

Lab Sample ID: 400-214256-1 MS

Matrix: Solid
Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.08 g	1 mL	564094	01/24/22 11:20	NGB	TAL PEN
Total/NA	Analysis	8270C		1			564282	01/25/22 15:58	S1B	TAL PEN

Client Sample ID: COMP

Date Collected: 01/14/22 08:38
Date Received: 01/19/22 10:17

Lab Sample ID: 400-214256-1 MSD

Matrix: Solid
Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.08 g	1 mL	564094	01/24/22 11:20	NGB	TAL PEN
Total/NA	Analysis	8270C		1			564282	01/25/22 16:19	S1B	TAL PEN

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/2E2110007

Job ID: 400-214256-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8015B	Gasoline Range Organics - (GC)	SW846	TAL PEN
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PEN
6010B	Metals (ICP)	SW846	TAL PEN
7471B	Mercury (CVAA)	SW846	TAL PEN
Moisture	Percent Moisture	EPA	TAL PEN
3050B	Preparation, Metals	SW846	TAL PEN
3546	Microwave Extraction	SW846	TAL PEN
5030B	Purge and Trap	SW846	TAL PEN
5035	Closed System Purge and Trap	SW846	TAL PEN
7471B	Preparation, Mercury	SW846	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Phone (850) 478-2671

Chain of Custody Record

eurofins | Environment Testing America

Client Information

Client Contact: Drew Moscovic
Company: Giles Engineering Associates
Address: 2626 Lombardy Lane Suite 105
City: Dallas
State, Zip: TX, 75220
Phone: 214-358-5885(Tel) 214-358-5884(Fax)
Email: dmoscovic@gilesengr.com
Project Name: CFA 4434/Silver Creek & Capital FSU
Site:

Sampler:
Phone:
PWSID:
Due Date Requested:
TAT Requested (days):
Compliance Project: Δ Yes Δ No
PO #: 2E-2110007
WO #:
Project #: 40011728
SSOW#:

Lab PM: McKinney, Jamie A
E-Mail: Jamie.McKinney@Eurofinset.com
Carrier Tracking No(s):
State of Origin:

COC No: 400-107121-38073.1
Page: Page 1 of 1
Job #:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS	8015B_GRO - GRO(C6 - C12)	8015B_DRO, 8270C	6010B (CA 22), 7471B	8260B - (MOD) Routine 8260	8260B - (MOD) Routine 8260 + oxygenates	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		A		
Comp	1-14-22	8:38	C	Solid			X	X	X	X	X		
				Solid									
				Water									

400-214256 COC

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Drew Moscovic	1-14-22 8:38	G.E.S	Kathy R Avery	1-19-22 1017	EETS

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 13.0°C IR 9

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Giles Engineering Associates

Job Number: 400-214256-1

Login Number: 214256
List Number: 1
Creator: Whitley, Adrian

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	13.0°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-214562-1
Client Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

For:
Giles Engineering Associates
2626 Lombardy Lane
Suite 105
Dallas, Texas 75220

Attn: Mr. Mike Pisarik

Authorized for release by:
2/3/2022 6:28:16 PM

Jamie McKinney, Senior Project Manager
(865)291-3000
Jamie.McKinney@Eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Definitions/Glossary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214562-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 400-214562-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-214562-1

Comments
No additional comments.

Receipt
The sample was received on 1/26/2022 10:08 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.2º C.

GC/MS VOA
Method 8260B: The method blank for analytical batch 400-564642 contained 1,2,3-Trichlorobenzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C: The continuing calibration verification (CCV) associated with batch 400-564672 recovered above the upper control limit for 4,6-Dinitro-2-methylphenol and Benzo[g,h,i]perylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270C: The continuing calibration verification (CCV) associated with batch 400-564672 recovered outside acceptance criteria, low biased, for Phenol and Acenaphthene. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method 7470A: The method blank for preparation batch 400-564516 and analytical batch 400-564601 contained Mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214562-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-214562-1	IDW-GW	Water	01/21/22 09:35	01/26/22 10:08

Detection Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214562-1

Client Sample ID: IDW-GW

Lab Sample ID: 400-214562-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.57	J	1.0	0.13	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.33	J	1.0	0.20	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.23	J	1.0	0.12	ug/L	1		8260B	Total/NA
Caprolactam	7.8	J	10	2.3	ug/L	1		8270C	Total/NA
Arsenic	0.13		0.050	0.015	mg/L	1		6010B	Total/NA
Barium	2.6		0.050	0.015	mg/L	1		6010B	Total/NA
Beryllium	0.0059	J	0.015	0.0050	mg/L	1		6010B	Total/NA
Cobalt	0.19		0.050	0.015	mg/L	1		6010B	Total/NA
Chromium	0.98		0.050	0.025	mg/L	1		6010B	Total/NA
Copper	0.57		0.10	0.085	mg/L	1		6010B	Total/NA
Nickel	1.4		0.030	0.015	mg/L	1		6010B	Total/NA
Lead	0.16	B	0.050	0.010	mg/L	1		6010B	Total/NA
Vanadium	0.74		0.10	0.035	mg/L	1		6010B	Total/NA
Zinc	1.1		0.10	0.040	mg/L	1		6010B	Total/NA
Mercury	0.55		0.20	0.15	ug/L	1		7470A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214562-1

Client Sample ID: IDW-GW

Date Collected: 01/21/22 09:35
Date Received: 01/26/22 10:08

Lab Sample ID: 400-214562-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.16	ug/L			01/28/22 17:41	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/28/22 17:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/28/22 17:41	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/28/22 17:41	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/28/22 17:41	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/28/22 17:41	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			01/28/22 17:41	1
1,2,3-Trichlorobenzene	ND		1.0	0.19	ug/L			01/28/22 17:41	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/28/22 17:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/28/22 17:41	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/28/22 17:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			01/28/22 17:41	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			01/28/22 17:41	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/28/22 17:41	1
1,2-Dichloroethane	ND		1.0	0.19	ug/L			01/28/22 17:41	1
1,2-Dichloroethene, Total	ND		1.0	0.50	ug/L			01/28/22 17:41	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/28/22 17:41	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/28/22 17:41	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/28/22 17:41	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/28/22 17:41	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/28/22 17:41	1
1,4-Dioxane	ND		400	200	ug/L			01/28/22 17:41	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/28/22 17:41	1
2-Butanone	ND		25	2.6	ug/L			01/28/22 17:41	1
2-Chlorotoluene	ND		1.0	0.57	ug/L			01/28/22 17:41	1
2-Hexanone	ND		25	1.4	ug/L			01/28/22 17:41	1
4-Chlorotoluene	ND		1.0	0.56	ug/L			01/28/22 17:41	1
4-Isopropyltoluene	ND		1.0	0.71	ug/L			01/28/22 17:41	1
4-Methyl-2-pentanone	ND		25	1.8	ug/L			01/28/22 17:41	1
Acetone	ND		25	10	ug/L			01/28/22 17:41	1
Benzene	**0.57**	**J**	1.0	0.13	ug/L			01/28/22 17:41	1
Bromobenzene	ND		1.0	0.54	ug/L			01/28/22 17:41	1
Bromochloromethane	ND		1.0	0.21	ug/L			01/28/22 17:41	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/28/22 17:41	1
Bromoform	ND		5.0	0.25	ug/L			01/28/22 17:41	1
Bromomethane	ND		1.0	0.98	ug/L			01/28/22 17:41	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/28/22 17:41	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/28/22 17:41	1
Chlorobenzene	ND		1.0	0.15	ug/L			01/28/22 17:41	1
Chloroethane	ND		1.0	0.76	ug/L			01/28/22 17:41	1
Chloroform	ND		1.0	0.60	ug/L			01/28/22 17:41	1
Chloromethane	ND		1.0	0.32	ug/L			01/28/22 17:41	1
cis-1,2-Dichloroethene	**0.33**	**J**	1.0	0.20	ug/L			01/28/22 17:41	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/28/22 17:41	1
Cyclohexane	ND		1.0	0.50	ug/L			01/28/22 17:41	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/28/22 17:41	1
Dibromomethane	ND		5.0	0.22	ug/L			01/28/22 17:41	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/28/22 17:41	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214562-1

Client Sample ID: IDW-GW

Date Collected: 01/21/22 09:35
Date Received: 01/26/22 10:08

Lab Sample ID: 400-214562-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diisopropyl ether	ND		1.0	0.20	ug/L			01/28/22 17:41	1
Ethyl tert-butyl ether	ND		1.0	0.28	ug/L			01/28/22 17:41	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/28/22 17:41	1
Freon TF	ND		1.0	0.50	ug/L			01/28/22 17:41	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/28/22 17:41	1
Isobutyl alcohol	ND		25	10	ug/L			01/28/22 17:41	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/28/22 17:41	1
m&p-Xylene	ND		5.0	0.63	ug/L			01/28/22 17:41	1
Methyl acetate	ND		5.0	0.61	ug/L			01/28/22 17:41	1
Methyl iodide	ND		1.0	0.90	ug/L			01/28/22 17:41	1
Methyl t-butyl ether	ND		1.0	0.22	ug/L			01/28/22 17:41	1
Methylcyclohexane	ND		1.0	0.50	ug/L			01/28/22 17:41	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/28/22 17:41	1
Naphthalene	ND		1.0	1.0	ug/L			01/28/22 17:41	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/28/22 17:41	1
n-Propylbenzene	ND		1.0	0.69	ug/L			01/28/22 17:41	1
o-Xylene	ND		5.0	0.60	ug/L			01/28/22 17:41	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/28/22 17:41	1
Styrene	ND		1.0	1.0	ug/L			01/28/22 17:41	1
Tert-amyl methyl ether	ND		1.0	0.23	ug/L			01/28/22 17:41	1
tert-Butyl alcohol (TBA)	ND		10	4.9	ug/L			01/28/22 17:41	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/28/22 17:41	1
Tetrachloroethene	**0.23**	**J**	1.0	0.12	ug/L			01/28/22 17:41	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			01/28/22 17:41	1
Toluene	ND		1.0	0.41	ug/L			01/28/22 17:41	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/28/22 17:41	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/28/22 17:41	1
Trichloroethene	ND		1.0	0.15	ug/L			01/28/22 17:41	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			01/28/22 17:41	1
Vinyl acetate	ND		25	0.93	ug/L			01/28/22 17:41	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/28/22 17:41	1
Xylenes, Total	ND		10	1.6	ug/L			01/28/22 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*72 - 119*		*01/28/22 17:41*	*1*
Toluene-d8	*99*		*64 - 132*		*01/28/22 17:41*	*1*
Dibromofluoromethane	*103*		*75 - 126*		*01/28/22 17:41*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		10	4.1	ug/L		01/27/22 13:29	01/28/22 16:14	1
1,4-Dichlorobenzene	ND		10	2.0	ug/L		01/27/22 13:29	01/28/22 16:14	1
1-Methylnaphthalene	ND		10	4.0	ug/L		01/27/22 13:29	01/28/22 16:14	1
2,3,4,6-Tetrachlorophenol	ND		10	5.2	ug/L		01/27/22 13:29	01/28/22 16:14	1
2,4,5-Trichlorophenol	ND		10	4.2	ug/L		01/27/22 13:29	01/28/22 16:14	1
2,4,6-Trichlorophenol	ND		10	3.6	ug/L		01/27/22 13:29	01/28/22 16:14	1
2,4-Dichlorophenol	ND		10	4.5	ug/L		01/27/22 13:29	01/28/22 16:14	1
2,4-Dimethylphenol	ND		10	5.4	ug/L		01/27/22 13:29	01/28/22 16:14	1
2,4-Dinitrophenol	ND		31	4.8	ug/L		01/27/22 13:29	01/28/22 16:14	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214562-1

Client Sample ID: IDW-GW

Date Collected: 01/21/22 09:35
Date Received: 01/26/22 10:08

Lab Sample ID: 400-214562-1

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		10	4.0	ug/L		01/27/22 13:29	01/28/22 16:14	1
2-Chlorophenol	ND		10	4.3	ug/L		01/27/22 13:29	01/28/22 16:14	1
2-Methylnaphthalene	ND		10	4.8	ug/L		01/27/22 13:29	01/28/22 16:14	1
2-Methylphenol	ND		10	7.2	ug/L		01/27/22 13:29	01/28/22 16:14	1
2-Nitroaniline	ND		10	5.2	ug/L		01/27/22 13:29	01/28/22 16:14	1
2-Nitrophenol	ND		10	4.8	ug/L		01/27/22 13:29	01/28/22 16:14	1
3 & 4 Methylphenol	ND		21	4.8	ug/L		01/27/22 13:29	01/28/22 16:14	1
3,3'-Dichlorobenzidine	ND		11	11	ug/L		01/27/22 13:29	01/28/22 16:14	1
3-Nitroaniline	ND		10	4.9	ug/L		01/27/22 13:29	01/28/22 16:14	1
4,6-Dinitro-2-methylphenol	ND		10	10	ug/L		01/27/22 13:29	01/28/22 16:14	1
4-Bromophenyl phenyl ether	ND		10	3.9	ug/L		01/27/22 13:29	01/28/22 16:14	1
4-Chloro-3-methylphenol	ND		10	5.5	ug/L		01/27/22 13:29	01/28/22 16:14	1
4-Chloroaniline	ND		10	4.9	ug/L		01/27/22 13:29	01/28/22 16:14	1
4-Chlorophenyl phenyl ether	ND		10	4.1	ug/L		01/27/22 13:29	01/28/22 16:14	1
4-Nitroaniline	ND		10	4.3	ug/L		01/27/22 13:29	01/28/22 16:14	1
4-Nitrophenol	ND		10	3.4	ug/L		01/27/22 13:29	01/28/22 16:14	1
Acenaphthene	ND		10	4.6	ug/L		01/27/22 13:29	01/28/22 16:14	1
Acenaphthylene	ND		10	4.3	ug/L		01/27/22 13:29	01/28/22 16:14	1
Acetophenone	ND		10	5.3	ug/L		01/27/22 13:29	01/28/22 16:14	1
Aniline	ND		10	9.1	ug/L		01/27/22 13:29	01/28/22 16:14	1
Anthracene	ND		10	4.1	ug/L		01/27/22 13:29	01/28/22 16:14	1
Benzo[a]anthracene	ND		10	1.9	ug/L		01/27/22 13:29	01/28/22 16:14	1
Benzo[a]pyrene	ND		10	1.8	ug/L		01/27/22 13:29	01/28/22 16:14	1
Benzo[b]fluoranthene	ND		10	1.8	ug/L		01/27/22 13:29	01/28/22 16:14	1
Benzo[g,h,i]perylene	ND		10	3.2	ug/L		01/27/22 13:29	01/28/22 16:14	1
Benzo[k]fluoranthene	ND		10	1.8	ug/L		01/27/22 13:29	01/28/22 16:14	1
Benzoic acid	ND		31	25	ug/L		01/27/22 13:29	01/28/22 16:14	1
Benzyl alcohol	ND		10	7.6	ug/L		01/27/22 13:29	01/28/22 16:14	1
Bis(2-chloroethoxy)methane	ND		10	4.8	ug/L		01/27/22 13:29	01/28/22 16:14	1
Bis(2-chloroethyl)ether	ND		10	4.1	ug/L		01/27/22 13:29	01/28/22 16:14	1
Bis(2-ethylhexyl) phthalate	ND		10	9.3	ug/L		01/27/22 13:29	01/28/22 16:14	1
Butyl benzyl phthalate	ND		10	6.0	ug/L		01/27/22 13:29	01/28/22 16:14	1
Carbazole	ND		10	2.0	ug/L		01/27/22 13:29	01/28/22 16:14	1
Chrysene	ND		10	1.9	ug/L		01/27/22 13:29	01/28/22 16:14	1
Di-n-butyl phthalate	ND		10	4.8	ug/L		01/27/22 13:29	01/28/22 16:14	1
Di-n-octyl phthalate	ND		10	6.2	ug/L		01/27/22 13:29	01/28/22 16:14	1
Dibenz(a,h)anthracene	ND		10	2.8	ug/L		01/27/22 13:29	01/28/22 16:14	1
Dibenzofuran	ND		10	4.2	ug/L		01/27/22 13:29	01/28/22 16:14	1
Diethyl phthalate	ND		10	4.6	ug/L		01/27/22 13:29	01/28/22 16:14	1
Dimethyl phthalate	ND		10	4.4	ug/L		01/27/22 13:29	01/28/22 16:14	1
Fluoranthene	ND		10	4.3	ug/L		01/27/22 13:29	01/28/22 16:14	1
Fluorene	ND		10	4.9	ug/L		01/27/22 13:29	01/28/22 16:14	1
Hexachlorobenzene	ND		10	4.4	ug/L		01/27/22 13:29	01/28/22 16:14	1
Hexachlorobutadiene	ND		10	1.8	ug/L		01/27/22 13:29	01/28/22 16:14	1
Hexachlorocyclopentadiene	ND		21	4.7	ug/L		01/27/22 13:29	01/28/22 16:14	1
Hexachloroethane	ND		10	2.5	ug/L		01/27/22 13:29	01/28/22 16:14	1
Indeno[1,2,3-cd]pyrene	ND		10	3.0	ug/L		01/27/22 13:29	01/28/22 16:14	1
Isophorone	ND		10	5.4	ug/L		01/27/22 13:29	01/28/22 16:14	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214562-1

Client Sample ID: IDW-GW

Date Collected: 01/21/22 09:35
Date Received: 01/26/22 10:08

Lab Sample ID: 400-214562-1

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		10	5.8	ug/L		01/27/22 13:29	01/28/22 16:14	1
N-Nitrosodimethylamine	ND		10	2.3	ug/L		01/27/22 13:29	01/28/22 16:14	1
N-Nitrosodiphenylamine	ND		10	3.9	ug/L		01/27/22 13:29	01/28/22 16:14	1
Naphthalene	ND		10	4.2	ug/L		01/27/22 13:29	01/28/22 16:14	1
Nitrobenzene	ND		10	4.9	ug/L		01/27/22 13:29	01/28/22 16:14	1
Pentachlorophenol	ND		21	3.9	ug/L		01/27/22 13:29	01/28/22 16:14	1
Phenanthrene	ND		10	3.2	ug/L		01/27/22 13:29	01/28/22 16:14	1
Phenol	ND		10	4.4	ug/L		01/27/22 13:29	01/28/22 16:14	1
Pyrene	ND		10	4.1	ug/L		01/27/22 13:29	01/28/22 16:14	1
Pyridine	ND		10	10	ug/L		01/27/22 13:29	01/28/22 16:14	1
1,2,4,5-Tetrachlorobenzene	ND		10	3.3	ug/L		01/27/22 13:29	01/28/22 16:14	1
1,2,4-Trichlorobenzene	ND		10	3.7	ug/L		01/27/22 13:29	01/28/22 16:14	1
1,2-Dichlorobenzene	ND		10	1.9	ug/L		01/27/22 13:29	01/28/22 16:14	1
2,4-Dinitrotoluene	ND		10	5.3	ug/L		01/27/22 13:29	01/28/22 16:14	1
2,6-Dinitrotoluene	ND		10	4.1	ug/L		01/27/22 13:29	01/28/22 16:14	1
Benzaldehyde	ND		10	1.8	ug/L		01/27/22 13:29	01/28/22 16:14	1
Atrazine	ND		10	2.1	ug/L		01/27/22 13:29	01/28/22 16:14	1
1,1'-Biphenyl	ND		10	3.1	ug/L		01/27/22 13:29	01/28/22 16:14	1
Caprolactam	**7.8**	**J**	10	2.3	ug/L		01/27/22 13:29	01/28/22 16:14	1
2,2'-oxybis[1-chloropropane]	ND		10	5.1	ug/L		01/27/22 13:29	01/28/22 16:14	1
Azobenzene	ND		10	1.4	ug/L		01/27/22 13:29	01/28/22 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*43*		*10 - 150*	*01/27/22 13:29*	*01/28/22 16:14*	*1*
2-Fluorophenol (Surr)	*25*		*10 - 105*	*01/27/22 13:29*	*01/28/22 16:14*	*1*
Nitrobenzene-d5 (Surr)	*27*		*16 - 127*	*01/27/22 13:29*	*01/28/22 16:14*	*1*
Phenol-d5 (Surr)	*22*		*10 - 129*	*01/27/22 13:29*	*01/28/22 16:14*	*1*
Terphenyl-d14 (Surr)	*45*		*13 - 150*	*01/27/22 13:29*	*01/28/22 16:14*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100	47	ug/L			01/26/22 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*91*		*69 - 147*		*01/26/22 19:04*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		120	97	ug/L		01/28/22 10:44	01/31/22 17:12	1
Oil Range Organics (C28-C35)	ND		120	97	ug/L		01/28/22 10:44	01/31/22 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*21 - 150*	*01/28/22 10:44*	*01/31/22 17:12*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.025	0.020	mg/L		01/26/22 17:55	01/31/22 20:16	1
Arsenic	**0.13**		0.050	0.015	mg/L		01/26/22 17:55	01/31/22 20:16	1
Barium	**2.6**		0.050	0.015	mg/L		01/26/22 17:55	01/28/22 16:28	1
Beryllium	**0.0059**	**J**	0.015	0.0050	mg/L		01/26/22 17:55	01/28/22 16:28	1

Client Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214562-1

Client Sample ID: IDW-GW

Lab Sample ID: 400-214562-1

Date Collected: 01/21/22 09:35
Date Received: 01/26/22 10:08

Matrix: Water

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.025	0.010	mg/L		01/26/22 17:55	01/28/22 16:28	1
Cobalt	**0.19**		0.050	0.015	mg/L		01/26/22 17:55	01/28/22 16:28	1
Chromium	**0.98**		0.050	0.025	mg/L		01/26/22 17:55	01/28/22 16:28	1
Copper	**0.57**		0.10	0.085	mg/L		01/26/22 17:55	01/28/22 16:28	1
Molybdenum	ND		0.50	0.020	mg/L		01/26/22 17:55	01/28/22 16:28	1
Nickel	**1.4**		0.030	0.015	mg/L		01/26/22 17:55	01/28/22 16:28	1
Lead	**0.16**	**B**	0.050	0.010	mg/L		01/26/22 17:55	01/28/22 16:28	1
Antimony	ND		0.25	0.11	mg/L		01/26/22 17:55	01/28/22 16:28	1
Selenium	ND		0.10	0.040	mg/L		01/26/22 17:55	01/31/22 20:16	1
Thallium	ND		0.10	0.040	mg/L		01/26/22 17:55	01/31/22 20:16	1
Vanadium	**0.74**		0.10	0.035	mg/L		01/26/22 17:55	01/28/22 16:28	1
Zinc	**1.1**		0.10	0.040	mg/L		01/26/22 17:55	01/28/22 16:28	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.55**		0.20	0.15	ug/L		01/27/22 09:00	01/27/22 13:31	1

Surrogate Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214562-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(72-119)	(64-132)	(75-126)
400-214562-1	IDW-GW	100	99	103
LCS 400-564642/1002	Lab Control Sample	95	94	105
MB 400-564642/45	Method Blank	100	97	103

Surrogate Legend

BFB = 4-Bromofluorobenzene
TOL = Toluene-d8
DBFM = Dibromofluoromethane

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)				
		TBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(10-150)	(10-105)	(16-127)	(10-129)	(13-150)
400-214562-1	IDW-GW	43	25	27	22	45
LCS 400-564565/2-A	Lab Control Sample	62	48	59	41	60
LCSD 400-564565/3-A	Lab Control Sample Dup	59	48	56	42	56
MB 400-564565/1-A	Method Blank	52	43	46	34	58

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TFT-F2
Lab Sample ID	Client Sample ID	(69-147)
400-214562-1	IDW-GW	91
LCS 400-564369/1002	Lab Control Sample	89
MB 400-564369/3	Method Blank	91

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTPH1
Lab Sample ID	Client Sample ID	(21-150)
400-214562-1	IDW-GW	92
LCS 400-564628/2-A	Lab Control Sample	87
MB 400-564628/1-A	Method Blank	96

Surrogate Legend

OTPH = o-Terphenyl

QC Association Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214562-1

GC/MS VOA

Analysis Batch: 564642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214562-1	IDW-GW	Total/NA	Water	8260B	
MB 400-564642/45	Method Blank	Total/NA	Water	8260B	
LCS 400-564642/1002	Lab Control Sample	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 564565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214562-1	IDW-GW	Total/NA	Water	3510C	
MB 400-564565/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-564565/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 400-564565/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 564672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214562-1	IDW-GW	Total/NA	Water	8270C	564565

Analysis Batch: 564711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-564565/1-A	Method Blank	Total/NA	Water	8270C	564565
LCS 400-564565/2-A	Lab Control Sample	Total/NA	Water	8270C	564565
LCSD 400-564565/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	564565

GC VOA

Analysis Batch: 564369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214562-1	IDW-GW	Total/NA	Water	8015B	
MB 400-564369/3	Method Blank	Total/NA	Water	8015B	
LCS 400-564369/1002	Lab Control Sample	Total/NA	Water	8015B	

GC Semi VOA

Prep Batch: 564628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214562-1	IDW-GW	Total/NA	Water	3510C	
MB 400-564628/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-564628/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 564886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214562-1	IDW-GW	Total/NA	Water	8015B	564628
MB 400-564628/1-A	Method Blank	Total/NA	Water	8015B	564628
LCS 400-564628/2-A	Lab Control Sample	Total/NA	Water	8015B	564628

Metals

Prep Batch: 564445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214562-1	IDW-GW	Total/NA	Water	7470A	
MB 400-564445/14-A	Method Blank	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 564445 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-564445/15-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 564446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214562-1	IDW-GW	Total/NA	Water	3010A	
MB 400-564446/1-A	Method Blank	Total/NA	Water	3010A	
LCS 400-564446/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 564601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214562-1	IDW-GW	Total/NA	Water	7470A	564445
MB 400-564445/14-A	Method Blank	Total/NA	Water	7470A	564445
LCS 400-564445/15-A	Lab Control Sample	Total/NA	Water	7470A	564445

Analysis Batch: 564858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214562-1	IDW-GW	Total/NA	Water	6010B	564446

Analysis Batch: 565009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-214562-1	IDW-GW	Total/NA	Water	6010B	564446
MB 400-564446/1-A	Method Blank	Total/NA	Water	6010B	564446
LCS 400-564446/2-A	Lab Control Sample	Total/NA	Water	6010B	564446

Analysis Batch: 565108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-564446/1-A	Method Blank	Total/NA	Water	6010B	564446
LCS 400-564446/2-A	Lab Control Sample	Total/NA	Water	6010B	564446

QC Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214562-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-564642/45
Matrix: Water
Analysis Batch: 564642

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.16	ug/L			01/28/22 14:13	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/28/22 14:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/28/22 14:13	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/28/22 14:13	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/28/22 14:13	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/28/22 14:13	1
1,1-Dichloropropene	ND		1.0	0.50	ug/L			01/28/22 14:13	1
1,2,3-Trichlorobenzene	0.409	J	1.0	0.19	ug/L			01/28/22 14:13	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/28/22 14:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/28/22 14:13	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/28/22 14:13	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/L			01/28/22 14:13	1
1,2-Dibromoethane	ND		1.0	0.23	ug/L			01/28/22 14:13	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/28/22 14:13	1
1,2-Dichloroethane	ND		1.0	0.19	ug/L			01/28/22 14:13	1
1,2-Dichloroethene, Total	ND		1.0	0.50	ug/L			01/28/22 14:13	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/28/22 14:13	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/28/22 14:13	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/28/22 14:13	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/28/22 14:13	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/28/22 14:13	1
1,4-Dioxane	ND		400	200	ug/L			01/28/22 14:13	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/28/22 14:13	1
2-Butanone	ND		25	2.6	ug/L			01/28/22 14:13	1
2-Chlorotoluene	ND		1.0	0.57	ug/L			01/28/22 14:13	1
2-Hexanone	ND		25	1.4	ug/L			01/28/22 14:13	1
4-Chlorotoluene	ND		1.0	0.56	ug/L			01/28/22 14:13	1
4-Isopropyltoluene	ND		1.0	0.71	ug/L			01/28/22 14:13	1
4-Methyl-2-pentanone	ND		25	1.8	ug/L			01/28/22 14:13	1
Acetone	ND		25	10	ug/L			01/28/22 14:13	1
Benzene	ND		1.0	0.13	ug/L			01/28/22 14:13	1
Bromobenzene	ND		1.0	0.54	ug/L			01/28/22 14:13	1
Bromochloromethane	ND		1.0	0.21	ug/L			01/28/22 14:13	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/28/22 14:13	1
Bromoform	ND		5.0	0.25	ug/L			01/28/22 14:13	1
Bromomethane	ND		1.0	0.98	ug/L			01/28/22 14:13	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/28/22 14:13	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/28/22 14:13	1
Chlorobenzene	ND		1.0	0.15	ug/L			01/28/22 14:13	1
Chloroethane	ND		1.0	0.76	ug/L			01/28/22 14:13	1
Chloroform	ND		1.0	0.60	ug/L			01/28/22 14:13	1
Chloromethane	ND		1.0	0.32	ug/L			01/28/22 14:13	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/28/22 14:13	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/28/22 14:13	1
Cyclohexane	ND		1.0	0.50	ug/L			01/28/22 14:13	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/28/22 14:13	1
Dibromomethane	ND		5.0	0.22	ug/L			01/28/22 14:13	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-564642/45
Matrix: Water
Analysis Batch: 564642

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/28/22 14:13	1
Diisopropyl ether	ND		1.0	0.20	ug/L			01/28/22 14:13	1
Ethyl tert-butyl ether	ND		1.0	0.28	ug/L			01/28/22 14:13	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/28/22 14:13	1
Freon TF	ND		1.0	0.50	ug/L			01/28/22 14:13	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/28/22 14:13	1
Isobutyl alcohol	ND		25	10	ug/L			01/28/22 14:13	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/28/22 14:13	1
m&p-Xylene	ND		5.0	0.63	ug/L			01/28/22 14:13	1
Methyl acetate	ND		5.0	0.61	ug/L			01/28/22 14:13	1
Methyl iodide	ND		1.0	0.90	ug/L			01/28/22 14:13	1
Methyl t-butyl ether	ND		1.0	0.22	ug/L			01/28/22 14:13	1
Methylcyclohexane	ND		1.0	0.50	ug/L			01/28/22 14:13	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/28/22 14:13	1
Naphthalene	ND		1.0	1.0	ug/L			01/28/22 14:13	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/28/22 14:13	1
n-Propylbenzene	ND		1.0	0.69	ug/L			01/28/22 14:13	1
o-Xylene	ND		5.0	0.60	ug/L			01/28/22 14:13	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/28/22 14:13	1
Styrene	ND		1.0	1.0	ug/L			01/28/22 14:13	1
Tert-amyl methyl ether	ND		1.0	0.23	ug/L			01/28/22 14:13	1
tert-Butyl alcohol (TBA)	ND		10	4.9	ug/L			01/28/22 14:13	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/28/22 14:13	1
Tetrachloroethene	ND		1.0	0.12	ug/L			01/28/22 14:13	1
Tetrahydrofuran	ND		5.0	1.5	ug/L			01/28/22 14:13	1
Toluene	ND		1.0	0.41	ug/L			01/28/22 14:13	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/28/22 14:13	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/28/22 14:13	1
Trichloroethene	ND		1.0	0.15	ug/L			01/28/22 14:13	1
Trichlorofluoromethane	ND		1.0	0.52	ug/L			01/28/22 14:13	1
Vinyl acetate	ND		25	0.93	ug/L			01/28/22 14:13	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/28/22 14:13	1
Xylenes, Total	ND		10	1.6	ug/L			01/28/22 14:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*72 - 119*		*01/28/22 14:13*	*1*
Toluene-d8	*97*		*64 - 132*		*01/28/22 14:13*	*1*
Dibromofluoromethane	*103*		*75 - 126*		*01/28/22 14:13*	*1*

Lab Sample ID: LCS 400-564642/1002
Matrix: Water
Analysis Batch: 564642

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	47.4		ug/L		95	67 - 131
1,1,1-Trichloroethane	50.0	47.4		ug/L		95	68 - 130
1,1,2,2-Tetrachloroethane	50.0	43.2		ug/L		86	70 - 131

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-564642/1002
Matrix: Water
Analysis Batch: 564642

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	50.0	45.1		ug/L		90	70 - 130
1,1-Dichloroethane	50.0	44.9		ug/L		90	70 - 130
1,1-Dichloroethene	50.0	40.6		ug/L		81	63 - 134
1,1-Dichloropropene	50.0	46.3		ug/L		93	70 - 130
1,2,3-Trichlorobenzene	50.0	52.9		ug/L		106	60 - 138
1,2,3-Trichloropropane	50.0	46.7		ug/L		93	70 - 130
1,2,4-Trichlorobenzene	50.0	53.0		ug/L		106	60 - 140
1,2,4-Trimethylbenzene	50.0	44.9		ug/L		90	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	41.1		ug/L		82	54 - 135
1,2-Dibromoethane	50.0	48.8		ug/L		98	70 - 130
1,2-Dichlorobenzene	50.0	48.0		ug/L		96	67 - 130
1,2-Dichloroethane	50.0	43.4		ug/L		87	69 - 130
1,2-Dichloropropane	50.0	43.6		ug/L		87	70 - 130
1,3,5-Trimethylbenzene	50.0	45.6		ug/L		91	69 - 130
1,3-Dichlorobenzene	50.0	48.1		ug/L		96	70 - 130
1,3-Dichloropropane	50.0	45.2		ug/L		90	70 - 130
1,4-Dichlorobenzene	50.0	48.4		ug/L		97	70 - 130
1,4-Dioxane	1000	954		ug/L		95	50 - 160
2,2-Dichloropropane	50.0	37.3		ug/L		75	52 - 135
2-Butanone	200	184		ug/L		92	61 - 145
2-Chlorotoluene	50.0	43.3		ug/L		87	70 - 130
2-Hexanone	200	155		ug/L		77	65 - 137
4-Chlorotoluene	50.0	44.8		ug/L		90	70 - 130
4-Isopropyltoluene	50.0	46.4		ug/L		93	65 - 130
4-Methyl-2-pentanone	200	163		ug/L		82	69 - 138
Acetone	200	172		ug/L		86	43 - 160
Benzene	50.0	47.4		ug/L		95	70 - 130
Bromobenzene	50.0	48.2		ug/L		96	70 - 132
Bromochloromethane	50.0	52.9		ug/L		106	70 - 130
Bromodichloromethane	50.0	47.6		ug/L		95	67 - 133
Bromoform	50.0	45.3		ug/L		91	57 - 140
Bromomethane	50.0	37.6		ug/L		75	10 - 160
Carbon disulfide	50.0	43.3		ug/L		87	61 - 137
Carbon tetrachloride	50.0	48.3		ug/L		97	61 - 137
Chlorobenzene	50.0	49.8		ug/L		100	70 - 130
Chloroethane	50.0	38.8		ug/L		78	55 - 141
Chloroform	50.0	47.8		ug/L		96	69 - 130
Chloromethane	50.0	45.1		ug/L		90	58 - 137
cis-1,2-Dichloroethene	50.0	44.1		ug/L		88	68 - 130
cis-1,3-Dichloropropene	50.0	45.8		ug/L		92	69 - 132
Cyclohexane	50.0	46.7		ug/L		93	70 - 130
Dibromochloromethane	50.0	49.5		ug/L		99	67 - 135
Dibromomethane	50.0	49.6		ug/L		99	70 - 130
Dichlorodifluoromethane	50.0	53.1		ug/L		106	41 - 146
Diisopropyl ether	50.0	42.6		ug/L		85	64 - 132
Ethyl tert-butyl ether	50.0	45.5		ug/L		91	55 - 133
Ethylbenzene	50.0	47.0		ug/L		94	70 - 130
Freon TF	50.0	39.4		ug/L		79	60 - 139

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-564642/1002
Matrix: Water
Analysis Batch: 564642

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	50.0	57.7		ug/L		115	53 - 140
Isobutyl alcohol	1250	908		ug/L		73	52 - 148
Isopropylbenzene	50.0	49.3		ug/L		99	70 - 130
m&p-Xylene	50.0	46.8		ug/L		94	70 - 130
Methyl acetate	100	88.1		ug/L		88	45 - 159
Methyl iodide	50.0	49.0		ug/L		98	27 - 159
Methyl t-butyl ether	50.0	42.4		ug/L		85	66 - 130
Methylcyclohexane	50.0	47.6		ug/L		95	70 - 130
Methylene Chloride	50.0	45.6		ug/L		91	66 - 135
Naphthalene	50.0	47.2		ug/L		94	47 - 149
n-Butylbenzene	50.0	44.6		ug/L		89	67 - 130
n-Propylbenzene	50.0	44.7		ug/L		89	70 - 130
o-Xylene	50.0	45.7		ug/L		91	70 - 130
sec-Butylbenzene	50.0	46.1		ug/L		92	66 - 130
Styrene	50.0	48.1		ug/L		96	70 - 130
Tert-amyl methyl ether	50.0	43.0		ug/L		86	52 - 132
tert-Butyl alcohol (TBA)	500	340		ug/L		68	46 - 143
tert-Butylbenzene	50.0	43.2		ug/L		86	64 - 139
Tetrachloroethene	50.0	51.2		ug/L		102	65 - 130
Tetrahydrofuran	100	76.5		ug/L		77	59 - 145
Toluene	50.0	46.2		ug/L		92	70 - 130
trans-1,2-Dichloroethene	50.0	46.8		ug/L		94	70 - 130
trans-1,3-Dichloropropene	50.0	41.7		ug/L		83	63 - 130
Trichloroethene	50.0	52.3		ug/L		105	70 - 130
Trichlorofluoromethane	50.0	38.1		ug/L		76	65 - 138
Vinyl acetate	100	91.2		ug/L		91	26 - 160
Vinyl chloride	50.0	42.6		ug/L		85	59 - 136

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*72 - 119*
Toluene-d8	*94*		*64 - 132*
Dibromofluoromethane	*105*		*75 - 126*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-564565/1-A
Matrix: Water
Analysis Batch: 564711

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564565

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		10	3.9	ug/L		01/27/22 13:28	01/28/22 16:28	1
1,4-Dichlorobenzene	ND		10	1.9	ug/L		01/27/22 13:28	01/28/22 16:28	1
1-Methylnaphthalene	ND		10	3.8	ug/L		01/27/22 13:28	01/28/22 16:28	1
2,3,4,6-Tetrachlorophenol	ND		10	5.0	ug/L		01/27/22 13:28	01/28/22 16:28	1
2,4,5-Trichlorophenol	ND		10	4.0	ug/L		01/27/22 13:28	01/28/22 16:28	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		01/27/22 13:28	01/28/22 16:28	1
2,4-Dichlorophenol	ND		10	4.3	ug/L		01/27/22 13:28	01/28/22 16:28	1
2,4-Dimethylphenol	ND		10	5.2	ug/L		01/27/22 13:28	01/28/22 16:28	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-564565/1-A
Matrix: Water
Analysis Batch: 564711

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564565

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		30	4.6	ug/L		01/27/22 13:28	01/28/22 16:28	1
2-Chloronaphthalene	ND		10	3.8	ug/L		01/27/22 13:28	01/28/22 16:28	1
2-Chlorophenol	ND		10	4.1	ug/L		01/27/22 13:28	01/28/22 16:28	1
2-Methylnaphthalene	ND		10	4.6	ug/L		01/27/22 13:28	01/28/22 16:28	1
2-Methylphenol	ND		10	6.9	ug/L		01/27/22 13:28	01/28/22 16:28	1
2-Nitroaniline	ND		10	5.0	ug/L		01/27/22 13:28	01/28/22 16:28	1
2-Nitrophenol	ND		10	4.6	ug/L		01/27/22 13:28	01/28/22 16:28	1
3 & 4 Methylphenol	ND		20	4.6	ug/L		01/27/22 13:28	01/28/22 16:28	1
3,3'-Dichlorobenzidine	ND		11	11	ug/L		01/27/22 13:28	01/28/22 16:28	1
3-Nitroaniline	ND		10	4.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
4,6-Dinitro-2-methylphenol	ND		10	10	ug/L		01/27/22 13:28	01/28/22 16:28	1
4-Bromophenyl phenyl ether	ND		10	3.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
4-Chloro-3-methylphenol	ND		10	5.3	ug/L		01/27/22 13:28	01/28/22 16:28	1
4-Chloroaniline	ND		10	4.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
4-Chlorophenyl phenyl ether	ND		10	3.9	ug/L		01/27/22 13:28	01/28/22 16:28	1
4-Nitroaniline	ND		10	4.1	ug/L		01/27/22 13:28	01/28/22 16:28	1
4-Nitrophenol	ND		10	3.3	ug/L		01/27/22 13:28	01/28/22 16:28	1
Acenaphthene	ND		10	4.4	ug/L		01/27/22 13:28	01/28/22 16:28	1
Acenaphthylene	ND		10	4.1	ug/L		01/27/22 13:28	01/28/22 16:28	1
Acetophenone	ND		10	5.1	ug/L		01/27/22 13:28	01/28/22 16:28	1
Aniline	ND		10	8.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
Anthracene	ND		10	3.9	ug/L		01/27/22 13:28	01/28/22 16:28	1
Benzo[a]anthracene	ND		10	1.8	ug/L		01/27/22 13:28	01/28/22 16:28	1
Benzo[a]pyrene	ND		10	1.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
Benzo[b]fluoranthene	ND		10	1.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
Benzo[g,h,i]perylene	ND		10	3.1	ug/L		01/27/22 13:28	01/28/22 16:28	1
Benzo[k]fluoranthene	ND		10	1.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
Benzoic acid	ND		30	24	ug/L		01/27/22 13:28	01/28/22 16:28	1
Benzyl alcohol	ND		10	7.3	ug/L		01/27/22 13:28	01/28/22 16:28	1
Bis(2-chloroethoxy)methane	ND		10	4.6	ug/L		01/27/22 13:28	01/28/22 16:28	1
Bis(2-chloroethyl)ether	ND		10	3.9	ug/L		01/27/22 13:28	01/28/22 16:28	1
Bis(2-ethylhexyl) phthalate	ND		10	8.9	ug/L		01/27/22 13:28	01/28/22 16:28	1
Butyl benzyl phthalate	ND		10	5.8	ug/L		01/27/22 13:28	01/28/22 16:28	1
Carbazole	ND		10	1.9	ug/L		01/27/22 13:28	01/28/22 16:28	1
Chrysene	ND		10	1.8	ug/L		01/27/22 13:28	01/28/22 16:28	1
Di-n-butyl phthalate	ND		10	4.6	ug/L		01/27/22 13:28	01/28/22 16:28	1
Di-n-octyl phthalate	ND		10	6.0	ug/L		01/27/22 13:28	01/28/22 16:28	1
Dibenz(a,h)anthracene	ND		10	2.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
Dibenzofuran	ND		10	4.0	ug/L		01/27/22 13:28	01/28/22 16:28	1
Diethyl phthalate	ND		10	4.4	ug/L		01/27/22 13:28	01/28/22 16:28	1
Dimethyl phthalate	ND		10	4.2	ug/L		01/27/22 13:28	01/28/22 16:28	1
Fluoranthene	ND		10	4.1	ug/L		01/27/22 13:28	01/28/22 16:28	1
Fluorene	ND		10	4.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
Hexachlorobenzene	ND		10	4.2	ug/L		01/27/22 13:28	01/28/22 16:28	1
Hexachlorobutadiene	ND		10	1.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
Hexachlorocyclopentadiene	ND		20	4.5	ug/L		01/27/22 13:28	01/28/22 16:28	1
Hexachloroethane	ND		10	2.4	ug/L		01/27/22 13:28	01/28/22 16:28	1
Indeno[1,2,3-cd]pyrene	ND		10	2.9	ug/L		01/27/22 13:28	01/28/22 16:28	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-564565/1-A
Matrix: Water
Analysis Batch: 564711

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564565

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	ND		10	5.2	ug/L		01/27/22 13:28	01/28/22 16:28	1
N-Nitrosodi-n-propylamine	ND		10	5.6	ug/L		01/27/22 13:28	01/28/22 16:28	1
N-Nitrosodimethylamine	ND		10	2.2	ug/L		01/27/22 13:28	01/28/22 16:28	1
N-Nitrosodiphenylamine	ND		10	3.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
Naphthalene	ND		10	4.0	ug/L		01/27/22 13:28	01/28/22 16:28	1
Nitrobenzene	ND		10	4.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
Pentachlorophenol	ND		20	3.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
Phenanthrene	ND		10	3.1	ug/L		01/27/22 13:28	01/28/22 16:28	1
Phenol	ND		10	4.2	ug/L		01/27/22 13:28	01/28/22 16:28	1
Pyrene	ND		10	3.9	ug/L		01/27/22 13:28	01/28/22 16:28	1
Pyridine	ND		10	10	ug/L		01/27/22 13:28	01/28/22 16:28	1
1,2,4,5-Tetrachlorobenzene	ND		10	3.2	ug/L		01/27/22 13:28	01/28/22 16:28	1
1,2,4-Trichlorobenzene	ND		10	3.6	ug/L		01/27/22 13:28	01/28/22 16:28	1
1,2-Dichlorobenzene	ND		10	1.8	ug/L		01/27/22 13:28	01/28/22 16:28	1
2,4-Dinitrotoluene	ND		10	5.1	ug/L		01/27/22 13:28	01/28/22 16:28	1
2,6-Dinitrotoluene	ND		10	3.9	ug/L		01/27/22 13:28	01/28/22 16:28	1
Benzaldehyde	ND		10	1.7	ug/L		01/27/22 13:28	01/28/22 16:28	1
Atrazine	ND		10	2.0	ug/L		01/27/22 13:28	01/28/22 16:28	1
1,1'-Biphenyl	ND		10	3.0	ug/L		01/27/22 13:28	01/28/22 16:28	1
Caprolactam	ND		10	2.2	ug/L		01/27/22 13:28	01/28/22 16:28	1
2,2'-oxybis[1-chloropropane]	ND		10	4.9	ug/L		01/27/22 13:28	01/28/22 16:28	1
Azobenzene	ND		10	1.3	ug/L		01/27/22 13:28	01/28/22 16:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*52*		*10 - 150*	*01/27/22 13:28*	*01/28/22 16:28*	*1*
2-Fluorophenol (Surr)	*43*		*10 - 105*	*01/27/22 13:28*	*01/28/22 16:28*	*1*
Nitrobenzene-d5 (Surr)	*46*		*16 - 127*	*01/27/22 13:28*	*01/28/22 16:28*	*1*
Phenol-d5 (Surr)	*34*		*10 - 129*	*01/27/22 13:28*	*01/28/22 16:28*	*1*
Terphenyl-d14 (Surr)	*58*		*13 - 150*	*01/27/22 13:28*	*01/28/22 16:28*	*1*

Lab Sample ID: LCS 400-564565/2-A
Matrix: Water
Analysis Batch: 564711

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564565

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	120	62.9		ug/L		52	18 - 118
1,4-Dichlorobenzene	120	62.3		ug/L		52	16 - 125
1-Methylnaphthalene	120	74.1		ug/L		62	28 - 129
2,3,4,6-Tetrachlorophenol	120	79.8		ug/L		66	27 - 150
2,4,5-Trichlorophenol	120	81.4		ug/L		68	30 - 144
2,4,6-Trichlorophenol	120	76.6		ug/L		64	27 - 147
2,4-Dichlorophenol	120	77.2		ug/L		64	33 - 132
2,4-Dimethylphenol	120	72.2		ug/L		60	38 - 132
2,4-Dinitrophenol	240	191		ug/L		80	15 - 150
2-Chloronaphthalene	120	72.8		ug/L		61	24 - 132
2-Chlorophenol	120	71.4		ug/L		59	27 - 124
2-Methylnaphthalene	120	73.3		ug/L		61	28 - 129

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-564565/2-A
Matrix: Water
Analysis Batch: 564711

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564565

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylphenol	120	74.3		ug/L		62	34 - 124
2-Nitroaniline	120	79.3		ug/L		66	24 - 139
2-Nitrophenol	120	76.5		ug/L		64	25 - 148
3 & 4 Methylphenol	120	72.1		ug/L		60	32 - 122
3,3'-Dichlorobenzidine	240	109		ug/L		46	10 - 150
3-Nitroaniline	120	49.4		ug/L		41	10 - 128
4,6-Dinitro-2-methylphenol	240	181		ug/L		76	14 - 150
4-Bromophenyl phenyl ether	120	72.7		ug/L		61	17 - 150
4-Chloro-3-methylphenol	120	79.4		ug/L		66	37 - 131
4-Chloroaniline	120	51.8		ug/L		43	10 - 124
4-Chlorophenyl phenyl ether	120	76.8		ug/L		64	27 - 147
4-Nitroaniline	120	66.6		ug/L		56	28 - 118
4-Nitrophenol	240	163		ug/L		68	12 - 129
Acenaphthene	120	74.7		ug/L		62	23 - 140
Acenaphthylene	120	81.9		ug/L		68	31 - 133
Acetophenone	120	72.2		ug/L		60	28 - 126
Aniline	120	77.7		ug/L		65	10 - 127
Anthracene	120	80.9		ug/L		67	31 - 146
Benzo[a]anthracene	120	80.4		ug/L		67	25 - 148
Benzo[a]pyrene	120	82.3		ug/L		69	16 - 150
Benzo[b]fluoranthene	120	76.6		ug/L		64	15 - 150
Benzo[g,h,i]perylene	120	67.9		ug/L		57	10 - 150
Benzo[k]fluoranthene	120	80.9		ug/L		67	15 - 150
Benzoic acid	498	269		ug/L		54	19 - 126
Benzyl alcohol	120	66.0		ug/L		55	17 - 109
Bis(2-chloroethoxy)methane	120	72.1		ug/L		60	24 - 125
Bis(2-chloroethyl)ether	120	58.1		ug/L		48	10 - 121
Bis(2-ethylhexyl) phthalate	120	81.9		ug/L		68	16 - 150
Butyl benzyl phthalate	120	84.2		ug/L		70	21 - 150
Carbazole	120	74.0		ug/L		62	37 - 145
Chrysene	120	81.2		ug/L		68	23 - 150
Di-n-butyl phthalate	120	85.2		ug/L		71	27 - 150
Di-n-octyl phthalate	120	83.2		ug/L		69	26 - 150
Dibenz(a,h)anthracene	120	68.3		ug/L		57	10 - 150
Dibenzofuran	120	79.3		ug/L		66	30 - 135
Diethyl phthalate	120	81.8		ug/L		68	37 - 145
Dimethyl phthalate	120	78.4		ug/L		65	32 - 137
Fluoranthene	120	84.3		ug/L		70	27 - 150
Fluorene	120	80.0		ug/L		67	29 - 143
Hexachlorobenzene	120	71.7		ug/L		60	10 - 150
Hexachlorobutadiene	120	65.7		ug/L		55	10 - 150
Hexachlorocyclopentadiene	120	64.6		ug/L		54	10 - 124
Hexachloroethane	120	59.6		ug/L		50	10 - 127
Indeno[1,2,3-cd]pyrene	120	70.2		ug/L		58	10 - 150
Isophorone	120	72.9		ug/L		61	28 - 127
N-Nitrosodi-n-propylamine	120	74.4		ug/L		62	24 - 142
N-Nitrosodimethylamine	120	58.5		ug/L		49	10 - 115
N-Nitrosodiphenylamine	119	68.1		ug/L		57	29 - 138

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-564565/2-A
Matrix: Water
Analysis Batch: 564711

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564565

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	120	70.7		ug/L		59	24 - 128
Nitrobenzene	120	69.4		ug/L		58	29 - 120
Pentachlorophenol	240	145		ug/L		60	19 - 150
Phenanthrene	120	78.7		ug/L		66	30 - 143
Phenol	120	53.2		ug/L		44	11 - 95
Pyrene	120	76.7		ug/L		64	21 - 149
Pyridine	240	94.2		ug/L		39	10 - 82
1,2,4,5-Tetrachlorobenzene	120	71.0		ug/L		59	15 - 149
1,2,4-Trichlorobenzene	120	66.7		ug/L		56	18 - 130
1,2-Dichlorobenzene	120	64.6		ug/L		54	19 - 124
2,4-Dinitrotoluene	120	84.7		ug/L		71	35 - 136
2,6-Dinitrotoluene	120	79.3		ug/L		66	29 - 140
Benzaldehyde	120	45.4		ug/L		38	10 - 150
Atrazine	120	70.5		ug/L		59	10 - 150
1,1'-Biphenyl	120	74.5		ug/L		62	24 - 130
Caprolactam	120	34.6		ug/L		29	10 - 143
2,2'-oxybis[1-chloropropane]	120	64.6		ug/L		54	14 - 123
Azobenzene	120	72.8		ug/L		61	23 - 138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*62*		*10 - 150*
2-Fluorophenol (Surr)	*48*		*10 - 105*
Nitrobenzene-d5 (Surr)	*59*		*16 - 127*
Phenol-d5 (Surr)	*41*		*10 - 129*
Terphenyl-d14 (Surr)	*60*		*13 - 150*

Lab Sample ID: LCSD 400-564565/3-A
Matrix: Water
Analysis Batch: 564711

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 564565

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3-Dichlorobenzene	120	59.4		ug/L		49	18 - 118	6	40
1,4-Dichlorobenzene	120	58.1		ug/L		48	16 - 125	7	40
1-Methylnaphthalene	120	69.5		ug/L		58	28 - 129	6	40
2,3,4,6-Tetrachlorophenol	120	74.5		ug/L		62	27 - 150	7	40
2,4,5-Trichlorophenol	120	77.5		ug/L		65	30 - 144	5	40
2,4,6-Trichlorophenol	120	72.3		ug/L		60	27 - 147	6	40
2,4-Dichlorophenol	120	74.0		ug/L		62	33 - 132	4	40
2,4-Dimethylphenol	120	71.4		ug/L		59	38 - 132	1	40
2,4-Dinitrophenol	240	179		ug/L		75	15 - 150	6	40
2-Chloronaphthalene	120	68.6		ug/L		57	24 - 132	6	40
2-Chlorophenol	120	69.0		ug/L		58	27 - 124	3	40
2-Methylnaphthalene	120	69.6		ug/L		58	28 - 129	5	40
2-Methylphenol	120	73.2		ug/L		61	34 - 124	2	40
2-Nitroaniline	120	77.3		ug/L		64	24 - 139	3	40
2-Nitrophenol	120	73.4		ug/L		61	25 - 148	4	40
3 & 4 Methylphenol	120	71.3		ug/L		59	32 - 122	1	40

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-564565/3-A
Matrix: Water
Analysis Batch: 564711

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 564565

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
3,3'-Dichlorobenzidine	240	115		ug/L		48	10 - 150	5	40
3-Nitroaniline	120	53.4		ug/L		44	10 - 128	8	40
4,6-Dinitro-2-methylphenol	240	173		ug/L		72	14 - 150	5	40
4-Bromophenyl phenyl ether	120	69.9		ug/L		58	17 - 150	4	40
4-Chloro-3-methylphenol	120	76.9		ug/L		64	37 - 131	3	40
4-Chloroaniline	120	52.4		ug/L		44	10 - 124	1	40
4-Chlorophenyl phenyl ether	120	74.4		ug/L		62	27 - 147	3	40
4-Nitroaniline	120	66.8		ug/L		56	28 - 118	0	40
4-Nitrophenol	240	156		ug/L		65	12 - 129	4	40
Acenaphthene	120	71.7		ug/L		60	23 - 140	4	40
Acenaphthylene	120	78.1		ug/L		65	31 - 133	5	40
Acetophenone	120	69.0		ug/L		57	28 - 126	4	40
Aniline	120	77.5		ug/L		65	10 - 127	0	40
Anthracene	120	77.4		ug/L		65	31 - 146	4	40
Benzo[a]anthracene	120	75.7		ug/L		63	25 - 148	6	40
Benzo[a]pyrene	120	77.4		ug/L		64	16 - 150	6	40
Benzo[b]fluoranthene	120	71.1		ug/L		59	15 - 150	7	40
Benzo[g,h,i]perylene	120	62.2		ug/L		52	10 - 150	9	40
Benzo[k]fluoranthene	120	78.7		ug/L		66	15 - 150	3	40
Benzoic acid	498	271		ug/L		54	19 - 126	1	40
Benzyl alcohol	120	64.0		ug/L		53	17 - 109	3	40
Bis(2-chloroethoxy)methane	120	70.4		ug/L		59	24 - 125	2	40
Bis(2-chloroethyl)ether	120	56.4		ug/L		47	10 - 121	3	40
Bis(2-ethylhexyl) phthalate	120	77.8		ug/L		65	16 - 150	5	40
Butyl benzyl phthalate	120	79.1		ug/L		66	21 - 150	6	40
Carbazole	120	70.7		ug/L		59	37 - 145	4	40
Chrysene	120	76.3		ug/L		64	23 - 150	6	40
Di-n-butyl phthalate	120	81.7		ug/L		68	27 - 150	4	40
Di-n-octyl phthalate	120	78.7		ug/L		66	26 - 150	6	40
Dibenz(a,h)anthracene	120	62.8		ug/L		52	10 - 150	8	40
Dibenzofuran	120	75.9		ug/L		63	30 - 135	4	40
Diethyl phthalate	120	78.8		ug/L		66	37 - 145	4	40
Dimethyl phthalate	120	75.5		ug/L		63	32 - 137	4	40
Fluoranthene	120	80.8		ug/L		67	27 - 150	4	40
Fluorene	120	76.6		ug/L		64	29 - 143	4	40
Hexachlorobenzene	120	69.5		ug/L		58	10 - 150	3	40
Hexachlorobutadiene	120	61.4		ug/L		51	10 - 150	7	40
Hexachlorocyclopentadiene	120	59.6		ug/L		50	10 - 124	8	40
Hexachloroethane	120	56.7		ug/L		47	10 - 127	5	40
Indeno[1,2,3-cd]pyrene	120	64.2		ug/L		54	10 - 150	9	40
Isophorone	120	71.0		ug/L		59	28 - 127	3	40
N-Nitrosodi-n-propylamine	120	71.4		ug/L		59	24 - 142	4	40
N-Nitrosodimethylamine	120	57.4		ug/L		48	10 - 115	2	40
N-Nitrosodiphenylamine	119	66.6		ug/L		56	29 - 138	2	40
Naphthalene	120	67.3		ug/L		56	24 - 128	5	40
Nitrobenzene	120	65.7		ug/L		55	29 - 120	5	40
Pentachlorophenol	240	137		ug/L		57	19 - 150	5	40
Phenanthrene	120	74.9		ug/L		62	30 - 143	5	40

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-564565/3-A
Matrix: Water
Analysis Batch: 564711

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 564565

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol			120	54.1		ug/L		45	11 - 95	2	40
Pyrene			120	73.4		ug/L		61	21 - 149	4	40
Pyridine			240	94.4		ug/L		39	10 - 82	0	40
1,2,4,5-Tetrachlorobenzene			120	66.9		ug/L		56	15 - 149	6	40
1,2,4-Trichlorobenzene			120	62.7		ug/L		52	18 - 130	6	40
1,2-Dichlorobenzene			120	60.9		ug/L		51	19 - 124	6	40
2,4-Dinitrotoluene			120	80.5		ug/L		67	35 - 136	5	40
2,6-Dinitrotoluene			120	76.6		ug/L		64	29 - 140	3	40
Benzaldehyde			120	45.6		ug/L		38	10 - 150	1	40
Atrazine			120	68.6		ug/L		57	10 - 150	3	40
1,1'-Biphenyl			120	70.7		ug/L		59	24 - 130	5	40
Caprolactam			120	37.2		ug/L		31	10 - 143	7	40
2,2'-oxybis[1-chloropropane]			120	61.2		ug/L		51	14 - 123	5	40
Azobenzene			120	70.4		ug/L		59	23 - 138	3	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*59*		*10 - 150*
2-Fluorophenol (Surr)	*48*		*10 - 105*
Nitrobenzene-d5 (Surr)	*56*		*16 - 127*
Phenol-d5 (Surr)	*42*		*10 - 129*
Terphenyl-d14 (Surr)	*56*		*13 - 150*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 400-564369/3
Matrix: Water
Analysis Batch: 564369

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100	47	ug/L			01/26/22 11:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*91*		*69 - 147*		*01/26/22 11:34*	*1*

Lab Sample ID: LCS 400-564369/1002
Matrix: Water
Analysis Batch: 564369

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C6-C12			1000	982		ug/L		98	85 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*89*		*69 - 147*

QC Sample Results

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214562-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 400-564628/1-A
Matrix: Water
Analysis Batch: 564886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564628

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		130	100	ug/L		01/28/22 08:35	01/31/22 11:13	1
Oil Range Organics (C28-C35)	ND		130	100	ug/L		01/28/22 08:35	01/31/22 11:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*96*		*21 - 150*	*01/28/22 08:35*	*01/31/22 11:13*	*1*

Lab Sample ID: LCS 400-564628/2-A
Matrix: Water
Analysis Batch: 564886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564628

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	16500	11800		ug/L		72	49 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*87*		*21 - 150*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 400-564446/1-A
Matrix: Water
Analysis Batch: 565009

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564446

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0050	0.0040	mg/L		01/26/22 17:55	01/31/22 17:45	1
Arsenic	ND		0.010	0.0030	mg/L		01/26/22 17:55	01/31/22 17:45	1
Barium	ND		0.010	0.0030	mg/L		01/26/22 17:55	01/31/22 17:45	1
Beryllium	ND		0.0030	0.0010	mg/L		01/26/22 17:55	01/31/22 17:45	1
Cadmium	ND		0.0050	0.0020	mg/L		01/26/22 17:55	01/31/22 17:45	1
Cobalt	ND		0.010	0.0030	mg/L		01/26/22 17:55	01/31/22 17:45	1
Chromium	ND		0.010	0.0050	mg/L		01/26/22 17:55	01/31/22 17:45	1
Molybdenum	ND		0.10	0.0040	mg/L		01/26/22 17:55	01/31/22 17:45	1
Nickel	ND		0.0060	0.0030	mg/L		01/26/22 17:55	01/31/22 17:45	1
Lead	ND		0.010	0.0020	mg/L		01/26/22 17:55	01/31/22 17:45	1
Antimony	ND		0.050	0.022	mg/L		01/26/22 17:55	01/31/22 17:45	1
Selenium	ND		0.020	0.0080	mg/L		01/26/22 17:55	01/31/22 17:45	1
Thallium	ND		0.020	0.0080	mg/L		01/26/22 17:55	01/31/22 17:45	1
Zinc	ND		0.020	0.0080	mg/L		01/26/22 17:55	01/31/22 17:45	1

Lab Sample ID: MB 400-564446/1-A
Matrix: Water
Analysis Batch: 565108

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564446

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.020	0.017	mg/L		01/26/22 17:55	02/01/22 14:02	1
Vanadium	ND		0.020	0.0070	mg/L		01/26/22 17:55	02/01/22 14:02	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 400-564446/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 565009 — **Prep Batch: 564446**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.500	0.463		mg/L		93	80 - 120
Arsenic	1.00	0.899		mg/L		90	80 - 120
Barium	1.00	0.909		mg/L		91	80 - 120
Beryllium	0.500	0.461		mg/L		92	80 - 120
Cadmium	0.500	0.460		mg/L		92	80 - 120
Cobalt	1.00	0.907		mg/L		91	80 - 120
Chromium	1.00	0.900		mg/L		90	80 - 120
Copper	1.00	0.880		mg/L		88	80 - 120
Molybdenum	1.00	0.944		mg/L		94	80 - 120
Nickel	1.00	0.881		mg/L		88	80 - 120
Lead	1.00	0.899		mg/L		90	80 - 120
Antimony	1.00	0.887		mg/L		89	80 - 120
Selenium	1.00	0.882		mg/L		88	80 - 120
Thallium	1.00	0.894		mg/L		89	80 - 120
Zinc	1.00	0.908		mg/L		91	80 - 120

Lab Sample ID: LCS 400-564446/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 565108 — **Prep Batch: 564446**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	1.00	1.03		mg/L		103	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-564445/14-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 564601 — **Prep Batch: 564445**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.15	ug/L		01/27/22 09:00	01/27/22 12:39	1

Lab Sample ID: LCS 400-564445/15-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 564601 — **Prep Batch: 564445**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.01	0.980		ug/L		97	80 - 120

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214562-1

Client Sample ID: IDW-GW
Date Collected: 01/21/22 09:35
Date Received: 01/26/22 10:08

Lab Sample ID: 400-214562-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	564642	01/28/22 17:41	WPD	TAL PEN
Total/NA	Prep	3510C			240.2 mL	1 mL	564565	01/27/22 13:29	BKL	TAL PEN
Total/NA	Analysis	8270C		1			564672	01/28/22 16:14	VC1	TAL PEN
Total/NA	Analysis	8015B		1	5 mL	5 mL	564369	01/26/22 19:04	GRK	TAL PEN
Total/NA	Prep	3510C			258.6 mL	1 mL	564628	01/28/22 10:44	RS	TAL PEN
Total/NA	Analysis	8015B		1			564886	01/31/22 17:12	JAS	TAL PEN
Total/NA	Prep	3010A			10 mL	50 mL	564446	01/26/22 17:55	KWN	TAL PEN
Total/NA	Analysis	6010B		1			565009	01/31/22 20:16	LDC	TAL PEN
Total/NA	Prep	3010A			10 mL	50 mL	564446	01/26/22 17:55	KWN	TAL PEN
Total/NA	Analysis	6010B		1			564858	01/28/22 16:28	LDC	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	564445	01/27/22 09:00	NET	TAL PEN
Total/NA	Analysis	7470A		1			564601	01/27/22 13:31	NET	TAL PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-564369/3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5 mL	5 mL	564369	01/26/22 11:34	GRK	TAL PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-564445/14-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			40 mL	40 mL	564445	01/27/22 09:00	NET	TAL PEN
Total/NA	Analysis	7470A		1			564601	01/27/22 12:39	NET	TAL PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-564446/1-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	564446	01/26/22 17:55	KWN	TAL PEN
Total/NA	Analysis	6010B		1			565009	01/31/22 17:45	LDC	TAL PEN
Total/NA	Prep	3010A			50 mL	50 mL	564446	01/26/22 17:55	KWN	TAL PEN
Total/NA	Analysis	6010B		1			565108	02/01/22 14:02	LDC	TAL PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-564565/1-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	564565	01/27/22 13:28	BKL	TAL PEN
Total/NA	Analysis	8270C		1			564711	01/28/22 16:28	S1B	TAL PEN

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214562-1

Client Sample ID: Method Blank — Lab Sample ID: MB 400-564628/1-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	564628	01/28/22 08:35	RS	TAL PEN
Total/NA	Analysis	8015B		1			564886	01/31/22 11:13	JAS	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-564642/45

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	564642	01/28/22 14:13	WPD	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-564369/1002

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5 mL	5 mL	564369	01/26/22 10:51	GRK	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-564445/15-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			40 mL	40 mL	564445	01/27/22 09:00	NET	TAL PEN
Total/NA	Analysis	7470A		1			564601	01/27/22 12:44	NET	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-564446/2-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	564446	01/26/22 17:55	KWN	TAL PEN
Total/NA	Analysis	6010B		1			565009	01/31/22 17:50	LDC	TAL PEN
Total/NA	Prep	3010A			50 mL	50 mL	564446	01/26/22 17:55	KWN	TAL PEN
Total/NA	Analysis	6010B		1			565108	02/01/22 14:17	LDC	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-564565/2-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	564565	01/27/22 13:28	BKL	TAL PEN
Total/NA	Analysis	8270C		1			564711	01/28/22 16:53	S1B	TAL PEN

Lab Chronicle

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214562-1

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-564628/2-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	564628	01/28/22 08:35	RS	TAL PEN
Total/NA	Analysis	8015B		1			564886	01/31/22 11:43	JAS	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-564642/1002

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	564642	01/28/22 12:13	WPD	TAL PEN

Client Sample ID: Lab Control Sample Dup — Lab Sample ID: LCSD 400-564565/3-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	564565	01/27/22 13:28	BKL	TAL PEN
Total/NA	Analysis	8270C		1			564711	01/28/22 17:18	S1B	TAL PEN

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: Giles Engineering Associates
Project/Site: CFA 4434/Silver Creek & Capital FSU/San Jose, CA

Job ID: 400-214562-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8015B	Gasoline Range Organics - (GC)	SW846	TAL PEN
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PEN
6010B	Metals (ICP)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
3010A	Preparation, Total Metals	SW846	TAL PEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL PEN
5030B	Purge and Trap	SW846	TAL PEN
7470A	Preparation, Mercury	SW846	TAL PEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Phone (850) 478-2671

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: C. Shirey	Lab PM: McKinney, Jamie A	Carrier Tracking No(s):	COC No: 400-107125-38076.1
Client Contact: Mr. Mike Pisarik	Phone:	E-Mail: Jamie.McKinney@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: Giles Engineering Associates	PWSID:			Job #:
Address: 2626 Lombardy Lane Suite 105	Due Date Requested:			
City: Dallas	TAT Requested (days): STAT			
State, Zip: TX, 75220	Compliance Project: Δ Yes Δ No			
Phone: 214-358-5885(Tel) 214-358-5884(Fax)	PO #: 2E-2110007			
Email: mpisarik@gilesengr.com	WO #:			
Project Name: CFA 4434/Silver Creek & Capital FSU	Project #: 40011728			
Site: 3155 Silver Creek Rd. San Jose, CA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270C - (MOD) Routine List (Lab Defined)	8015B_DRO - (MOD) DRO C10-C28	6010B (CA 22), 7470A	8015B_GRO - GRO(C6 - C12)	8260B - (MOD) Routine 8260 + oxygenates	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	D	A	A		
IDW-GW	1/21/22	0935	Grab	Water			X	X	X	X	X	9	
				Water									
				Water									

400-214562 COC

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
CS	1/21/2022 @ 1200	BTS	CS (sc)	1/21/2022 @ 1200	BTS
[illegible]	01/24/2022 @ 1500	BTS			

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2-2°C IR9.

Shipped via FedEx: 1482 3811 8160

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Giles Engineering Associates

Job Number: 400-214562-1

Login Number: 214562
List Number: 1
Creator: Whitley, Adrian

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Geotechnical, Environmental & Construction Materials Consultants

GILES

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