# LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

Proposed Speedway
No.101184
NE Corner of Washington Street and Holiday Drive
Forrest City, Arkansas
St. Francis County 72335

Project No. Z029000833
February 24, 2020

Prepared for:

Speedway LLC

February 24, 2020

ATC
GROUP SERVICES LLC

# Document Information

| | |
|---|---|
| Prepared for | Speedway LLC |
| Project Name | Proposed Speedway No. 101184 |
| File Reference | 101184_Limited Phase II ESA Report_FINAL |
| Job Reference | Z029000833 |
| Date | February 24, 2020 |

# Contact Information

**ATC Group Services LLC**
2690 Memorial Boulevard, Suite D
Murfreesboro, Tennessee 37129

Telephone: 615.295.2458
Facsimile: 615.295.2464

www.atcgroupservices.com

# Executive Summary

ATC Group Services LLC (ATC) completed a Limited Phase II Environmental Site Assessment (Limited Phase II ESA) on approximately 3.76 acres of land (Parcel No. 0800-00115-0000) located at the northeast corner of North Washington Street and Holiday Drive, Forrest City, St. Francis County, Arkansas (herein referred to as "the Property") during February 2020. **Figure 1** presents the Property Vicinity Map. **Figure 2** presents the grid cells overlaid on the Property with the soil boring locations. This report summarizes the purpose, methods, findings, and conclusions of this investigation.

In January 2020, ATC completed a Phase I ESA of the Property. During the Phase I ESA, ATC identified the following *recognized environmental conditions (RECs)*.

- Woodruff Electric Co-Op Corp., identified as having operated at the Subject Property, is listed on the UST database. According to this database, this facility housed one 12,000-gallon gasoline tank which was installed in January 1975 and removed from the site in December 1988. No closure documentation was received from an Arkansas Division of Environmental Quality (ADEQ) file review that was performed as part of the investigation. During site reconnaissance a former dispenser island, UST vent pipe, and suspect UST location were noted on site. Based on the lack of documentation pertaining to this suspect UST, and the lack of closure documentation for the former 12,000-gallon UST, the potential for unidentified impact to the subsurface is considered to represent a *recognized environmental condition* to the Subject Property.
- ATC observed four transformer storage areas at the Subject Property. One open concrete area located west of the equipment storage building, one concrete area located west of the wire storage canopy with an adjacent area located on asphalt, one enclosed shed for leaking transformers located north of the wire storage canopy, and one open concrete area with secondary containment located southeast of the wire storage canopy. The storage area with secondary containment has a discharge point which drains through a filter. According to Mr. Cook, transformer spills were cleaned using oil dry and other adsorbents. While no major staining or obvious issues were noted, the potential for impact to the subsurface due to a lock of secondary containment is considered to represent a *recognized environmental condition* to the Subject Property.
- ATC observed an open, concrete paved area at the east end of the Subject Property used for pole storage. Utility poles are typically associated with creosote, a toxic chemical used to treat wood along with pesticides and heavy metals. One creosote treated utility pole was observed during site reconnaissance activities. No visual evidence of impacts (i.e., stained soils or stressed vegetation) was observed during the site visit. However, based on the nature of the chemicals used to treat the poles, exposure to stormwater and the potential for these chemicals to have washed into cracks in the concrete pad and traveled to the subsurface or washed off-site, this utility pole storage area is considered to represent a *recognized environmental condition* to the Subject Property.
- Machen Ford – Chrysler Inc. formerly operated on the northern adjacent property and is listed on the UST database, this facility formerly operated on 1,000-gallon gasoline tank and one 250-gallon used oil tank which were installed in January 1966. The gasoline tank was permanently removed from service in December 1986 and the used oil tank in June 1997. Documentation from the 1,000-gallon gasoline tank was not provided. Based on the lack of documentation pertaining to the 1,000-gallon gasoline UST, the age of the tank, and its potential proximity to the Subject Property, the potential for unidentified impact to the subsurface is considered to represent a *recognized environmental condition*.

The purpose of this Limited Phase II ESA was to determine the presence/absence of hazardous materials/petroleum products in soil and groundwater underlying the Property. A total of eighteen (18) soil borings were installed at select locations on the Property. Four (4) of the soil borings were completed as temporary

monitoring wells (TMWs) in order to obtain groundwater samples from the Property. Saturated conditions were generally encountered at seven (7) to nine (9) ft-bgs throughout the Property. In TMWs where groundwater was encountered, groundwater stabilized around three (3) ft-bgs.

The laboratory analytical results for soil were compared to the Environmental Protection Agency (EPA) Regional Screening Levels (RSLs) for residential and commercial usage. A total of eighteen (18) soil samples were submitted for laboratory analyses of volatile organic compounds (VOCs), polynuclear aromatics hydrocarbons (PAHs), and Resource Conservation and Recovery Act (RCRA) Metals. For future disposal purposes, one (1) additional composite sample was submitted for laboratory Toxicity Characteristic Leaching Procedure (TCLP) RCRA Metals. A summary of the soil laboratory analytical results are provided below:

- Investigation activities at the Property reported adsorbed VOC concentrations above the laboratory detection limits, but below the EPA RSLs for residential usage.
- Investigation activities at the Property reported adsorbed PAH concentrations of benzo(a)pyrene above the EPA RSL of 0.11 milligrams per kilogram (mg/kg) for residential usage, but below the EPA RSL of 2.1 mg/kg for commercial usage. Additionally, all other adsorbed PAH concentrations were reported below the EPA RSLs for residential usage.
- Investigation activities at the Property reported adsorbed RCRA Metals concentrations of Arsenic above the EPA RSL of 0.68 mg/kg for residential usage, but below the EPA RSL of 3.0 mg/kg for commercial usage in two (2) of the soil samples; and above the EPA RSL of 3.0 mg/kg for commercial usage in sixteen (16) of the soil samples. Additionally, all other adsorbed RCRA Metals concentrations were reported below the EPA RSLs for residential usage.
- Investigation activities at the Property reported no adsorbed PCB concentrations above the laboratory detection limits.
- Investigation activities at the Property reported adsorbed TCLP RCRA Metals concentrations of Barium above laboratory detection limits, but below the EPA RSL of 1500 milligrams per liter (mg/L) for residential usage. Additionally, all other TCLP RCRA Metals concentrations were reported below laboratory detection limits.

A total of four (4) groundwater samples were submitted for laboratory analyses of VOCs, PAHs, RCRA Metals and PCBs. A summary of the groundwater laboratory analytical results are provided below:

- Investigation activities at the Property reported dissolved VOC concentrations above the laboratory detection limits, but below the EPA Tapwater Criteria and MCLs.
- Investigation activities at the Property reported dissolved PAH concentrations of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(a)fluoranthene, Dibenz(a,h)anthracene and Naphthalene above their respective Tapwater Criteria; MCLs have not been determined for many of the contaminants listed above. Additionally, all other dissolved PAH concentrations were reported below their respective EPA Tapwater Criteria and MCLs.
- Investigation activities at the Property reported dissolved RCRA Metals concentrations of Arsenic, Barium, Cadmium, Chromium and Lead above their respective EPA Tapwater Criteria and MCLs.

Based on the Limited Phase II ESA investigation, ATC provides the following conclusion and recommendations.

- Investigation activities at the Property reported adsorbed and dissolved soil/groundwater concentrations above EPA RSLs for residential and commercial usage as well as EPA Tapwater Criteria and MCLs.
- Based on the reported soil and groundwater analytical for the Property, ATC recommends that the current Property owner supply ADEQ with the Limited Phase II ESA findings.

Woodruff Electric Co-Op Corp., identified as having operated at the Property, is listed on the UST database. According to the UST database, the facility housed one 12,000-gallon gasoline tank which was installed in January 1975 and removed from the site in December 1988. No closure documentation was received from an ADEQ file review that was performed as part of the investigation. A GPR survey was conducted in the area of the historical UST. No anomalies or voids were identified that would be indicative of an UST. Additionally, ATC received a copy of the "Notification for Underground Storage Tanks" dated December 20, 1988 that specified that the UST was removed from the ground on December 6, 1988.

This investigation is intended to be a non-biased assessment of on-site environmental conditions as presented by the data gathered during the investigation described herein. Subsurface investigative and methodologies were performed in general accordance with applicable state and federal regulatory requirements. The information presented in this report is based upon Property-specific observations, generally accepted geological and environmental consulting practices, and analytical results for environmental samples collected at the time the field investigation was performed. The data presented in this report are believed to represent subsurface conditions at the facility; however, data may not be completely representative of subsurface conditions at every location. ATC assumes no liability arising from environmental impact to, or from, the Property, regardless of the date of impact occurrence or findings.

# Table of Contents

# Appendices



# Figures



# Table

# 1 Site Information

## 1.1 Introduction

ATC Group Services LLC (ATC) completed a Limited Phase II Environmental Site Assessment (Limited Phase II ESA) on approximately 3.76 acres of land (Parcel No. 0800-00115-0000) located at the northeast corner of North Washington Street and Holiday Drive, Forrest City, St. Francis County, Arkansas (herein referred to as "the Property") during February 2020. **Figure 1** presents the Property Vicinity Map. **Figure 2** presents the grid cells overlaid on the Property with the soil boring locations. This report summarizes the purpose, methods, findings, and conclusions of this investigation.

## 1.2 Property Description

The Property is currently unoccupied, but was previously owned and operated by Woodruff Electric Cooperative Corporation. Features observed on the Property include:

- An approximate 3,800 square foot maintenance shop with a 1,000 square foot drive through canopy (constructed between 1976 and 1985 with an addition constructed between 2006 and 2010) is located in the north central portion of the Property and was previously utilized as a shop. A former fuel dispenser island is located beneath the canopy and an underground storage tank (UST) vent pipe was noted on the southwestern corner of the building. Utility marking paint observed during the site visit traced the vent pipe and indicated the UST is likely present to the southwest of the dispenser island. An approximate 550-gallon new oil above-ground storage tank (AST) and approximate 550-gallon used oil AST are located within the shop building. No staining was noted around the ASTs.
- An approximate 2,100 square foot equipment storage building (constructed between 1957 and 1976) with a western adjacent metal canopy (approximately 3,500 square feet) that was constructed between 1985 and 1991 is located in the south central portion of the Property. The equipment storage building contained an approximate 250-gallon AST formerly used for application of week killer as well as two portable hydraulic truck lifts, a small drum of grease, an empty plastic 55-gallon drum formerly containing diesel exhaust fuel (DEF) and old lawn maintenance equipment.
- An approximate 4,000 square foot metal canopy (constructed between 1976 and 1985) is located in the eastern portion of the Property and was reportedly formerly used as wire and transformer storage.
- An approximate 100 square foot shed (constructed between 1991 and 1994) is located north of the wire storage canopy and was previously used to store leaking transformers. The shed was constructed with concrete secondary containment and no surface staining was noted surrounding the shed.
- An approximate 550-gallon diesel AST is located at the northeast corner of the equipment storage building. The AST is in the open and does not include secondary containment. The AST is presumably empty and no surface staining was observed in the vicinity. A second approximate 2,000-gallon diesel AST is located beneath a shed in the northeastern portion of the Property. The AST is located within secondary containment, and no signs of leaking were noted.
- Several transformer storage pads and former transformer storage areas are located throughout the Subject Property; the easternmost transformer storage pad is equipped with secondary containment that discharges through an oil filter system. A pole storage area is located at the east end of the Property.
- Previously, three additional buildings were located on the Property which have since been removed. These included a 4,581 square foot (approximate) building (constructed between 1957 and 1976) located at the northwest corner of the Property utilized as an engineering office and meter storage; a 10,000 square foot (approximate) building (constructed between 1939 and 1957) located near the west Property boundary utilized as an office building; and a 4,000 square foot (approximate) building (constructed between 1939

and 1957) located east of the office building and was reportedly utilized for file storage. These buildings were reportedly removed in November 2018.

A review of historical records sources indicates that the Property has been commercially developed since approximately 1957. Prior to initial commercial development, it appears the Property may have been undeveloped land. The surrounding area historically consisted of agricultural and residential land use and unimproved land. Initial commercial development occurred south of the Property between 1957 and 1976. The remaining surrounding properties were developed for commercial use by the early 1990s.

## 1.3 Background

In January 2020, ATC completed a Phase I Environmental Site Assessment (Phase I ESA) of the Property. During the Phase I ESA, the following environmental concerns were identified:

- Woodruff Electric Co-Op Corp., identified as having operated at the Property, is listed on the UST database. According to this database, this facility housed one 12,000-gallon gasoline tank which was installed in January 1975 and removed from the site in December 1988. No closure documentation was received from an Arkansas Division of Environmental Quality (ADEQ) file review that was performed as part of the investigation. During site reconnaissance a former dispenser island, UST vent pipe, and suspect UST location were noted on site. Based on the lack of documentation pertaining to this suspect UST, and the lack of closure documentation for the former 12,000-gallon UST, the potential for unidentified impact to the subsurface is considered to represent a *recognized environmental condition* to the Property.

- ATC observed four transformer storage areas at the Property. One open concrete area located west of the equipment storage building, one concrete area located west of the wire storage canopy with an adjacent area located on asphalt, one enclosed shed for leaking transformers located north of the wire storage canopy, and one open concrete area with secondary containment located southeast of the wire storage canopy. The storage area with secondary containment has a discharge point which drains through a filter. According to Mr. Cook, transformer spills were cleaned using oil dry and other adsorbents. While no major staining or obvious issues were noted, the potential for impact to the subsurface due to a lock of secondary containment is considered to represent a *recognized environmental condition* to the Property.

- ATC observed several open, concrete paved areas at the east end of the Property used for pole storage. Utility poles are typically associated with creosote, a toxic chemical used to treat wood along with pesticides and heavy metals. One creosote treated utility pole was observed during site reconnaissance activities. No visual evidence of impacts (i.e., stained soils or stressed vegetation) was observed during the site visit. However, based on the nature of the chemicals used to treat the poles, exposure to stormwater and the potential for these chemicals to have washed into cracks in the concrete pads and travelled to the subsurface or washed off-site, this utility pole storage area is considered to represent a *recognized environmental condition* to the Property.

- Machen Ford - Chrysler Inc. formerly operated on the northern adjacent property and is listed on the UST database. This facility formerly operated one 1,000-gallon gasoline tank and one 250-gallon used oil tank which were installed in January 1966. The gasoline tank was permanently removed from service in December 1986 and the used oil tank in June 1997. Documentation provided in the ADEQ file review indicates sampling results collected from the closure of the used oil tank were below regulatory levels and no-further action was required. Documentation from the 1,000-gallon gasoline tank was not provided. Based on the lack of documentation pertaining to the 1,000-gallon gasoline UST, the age of the tank, and

its potential proximity to the Property; the potential for unidentified impact to the subsurface is considered to represent a *recognized environmental condition*

## 1.4 Purpose

The purpose of this Limited Phase II ESA was to determine the presence/absence of hazardous materials/petroleum products in soil and groundwater underlying the Property. A total of eighteen (18) soil borings were installed at select locations on the Property. Four (4) of the soil borings were completed as temporary monitoring wells (TMWs) in order to obtain groundwater samples from the Property. Please refer to **Section 1.5** (below) for the soil boring and sample collection plan. A Property Map with Grid Cells and Boring/Well Locations is included as **Figure 1**.

## 1.5 Soil Boring and Sample Collection Plan

***Soil Boring & Sample Collection Table***

| Boring ID: | 1 Sample per Boring: | Analytical | Intent: |
|---|---|---|---|
| 184-11 | Based on VOC headspace field screening (Total Depth - 10 ft-bgs) | Soil: VOCs (8260B), PAHs (8270C-SIMS), RCRA Metals (6010/7470), and PCBs (8082) | Investigate *REC:* One (1) soil sample. Southwest portion of the Property. Investigate potential impacts from *REC*. |
| 184-12 | Based on VOC headspace field screening (Total Depth - 10 ft-bgs) | Soil: VOCs (8260B), PAHs (8270C-SIMS), RCRA Metals (6010/7470), and PCBs (8082) | Investigate *REC:* One (1) soil sample. Southwest portion of the Property. Investigate potential impacts from *REC*. |
| 184-12A (TMW) | Based on VOC headspace field screening (Total Depth - 20 ft-bgs) | Soil: VOCs (8260B), PAHs (8270C-SIMS), RCRA Metals (6010/7470), PCBs (8082) and TCLP RCRA Metals<br><br>Groundwater: VOCs (8260B), PAHs (8270C SIM), and Dissolved TAL RCRA Metals (6020) | Investigate *REC:* One (1) soil sample and one (1) groundwater sample. Southcentral portion of the Property. Investigate potential impacts from *REC*. |
| 184-14 | Based on VOC headspace field screening (Total Depth - 10 ft-bgs) | Soil: VOCs (8260B), PAHs (8270C-SIMS), RCRA Metals (6010/7470), and PCBs (8082) | Investigate *REC:* One (1) soil sample. Southeast portion of the Property. Investigate potential impacts from *REC*. |
| 184-14A (TMW) | Based on VOC headspace field screening (Total Depth - 10 ft-bgs) | Soil: VOCs (8260B), PAHs (8270C-SIMS), RCRA Metals (6010/7470), and PCBs (8082)<br><br>Groundwater: VOCs (8260B), PAHs (8270C SIM), and Dissolved TAL RCRA Metals (6020) | Investigate *REC:* One (1) soil sample and one (1) groundwater sample. Southeast portion of the Property. Investigate potential impacts from *REC*. |
| 184-14B | Based on VOC | Soil: VOCs (8260B), PAHs | Investigate *REC:* One (1) soil sample. Southeast portion of the Property. |

| | | | |
|---|---|---|---|
| | headspace field screening (Total Depth - 10 ft-bgs) | (8270C-SIMS), RCRA Metals (6010/7470), and PCBs (8082) | Investigate potential impacts from *REC*. |
| 184-14C | Based on VOC headspace field screening (Total Depth - 10 ft-bgs) | Soil: VOCs (8260B), PAHs (8270C-SIMS), RCRA Metals (6010/7470), and PCBs (8082) | Investigate *REC:* One (1) soil sample. Southeast portion of the Property. Investigate potential impacts from *REC*. |
| 184-15 | Based on VOC headspace field screening (Total Depth - 10 ft-bgs) | Soil: VOCs (8260B), PAHs (8270C-SIMS), RCRA Metals (6010/7470), and PCBs (8082) | Investigate *REC:* One (1) soil sample. Eastern portion of the Property. Investigate potential impacts from *REC*. |
| 184-15A | Based on VOC headspace field screening (Total Depth - 10 ft-bgs) | Soil: VOCs (8260B), PAHs (8270C-SIMS), RCRA Metals (6010/7470), and PCBs (8082) | Investigate *REC:* One (1) soil sample. Eastern portion of the Property. Investigate potential impacts from *REC*. |
| 184-16 | Based on VOC headspace field screening (Total Depth - 10 ft-bgs) | Soil: VOCs (8260B), PAHs (8270C-SIMS), RCRA Metals (6010/7470), and PCBs (8082) | Investigate *REC:* One (1) soil sample. Eastern portion of the Property. Investigate potential impacts from *REC*. |
| 184-17 | Based on VOC headspace field screening (Total Depth - 10 ft-bgs) | Soil: VOCs (8260B), PAHs (8270C-SIMS), RCRA Metals (6010/7470), and PCBs (8082) | Investigate *REC:* One (1) soil sample. Northeast portion of the Property. Investigate potential impacts from *REC*. |
| 184-17A | Based on VOC headspace field screening (Total Depth - 10 ft-bgs) | Soil: VOCs (8260B), PAHs (8270C-SIMS), RCRA Metals (6010/7470), and PCBs (8082) | Investigate *REC:* One (1) soil sample. Northeast portion of the Property. Investigate potential impacts from *REC*. |
| 184-18 (TMW) | Based on VOC headspace field screening (Total Depth - 10 ft-bgs) | Soil: VOCs (8260B), PAHs (8270C-SIMS), RCRA Metals (6010/7470), and PCBs (8082)<br><br>Groundwater: VOCs (8260B), PAHs (8270C SIM), and Dissolved TAL RCRA Metals (6020) | Investigate *REC:* One (1) soil sample and one (1) groundwater sample. Northeast portion of the Property. Investigate potential impacts from *REC*. |
| 184-29 | Based on VOC headspace field screening (Total Depth - 10 ft-bgs) | Soil: VOCs (8260B), PAHs (8270C-SIMS), RCRA Metals (6010/7470), and PCBs (8082) | Investigate *REC:* One (1) soil sample. North portion of the Property. Investigate potential impacts from *REC*. |
| 184-31 | Based on VOC headspace field screening (Total Depth - 10 ft-bgs) | Soil: VOCs (8260B), PAHs (8270C-SIMS), RCRA Metals (6010/7470), and PCBs (8082) | Investigate *REC:* One (1) soil sample. Northeast portion of the Property. Investigate potential impacts from *REC*. |
| 184-32 | Based on VOC headspace field screening (Total Depth - 10 ft-bgs) | Soil: VOCs (8260B), PAHs (8270C-SIMS), RCRA Metals (6010/7470), and PCBs (8082) | Investigate *REC:* One (1) soil sample. Northeast portion of the Property. Investigate potential impacts from *REC*. |
| 184-33 | Based on VOC headspace field | Soil: VOCs (8260B), PAHs (8270C-SIMS), RCRA Metals (6010/7470), | Investigate *REC:* One (1) soil sample. Southwest portion of the Property. Investigate potential impacts from *REC*. |

| | | | |
|---|---|---|---|
| | screening (Total Depth - 10 ft-bgs) | and PCBs (8082) | |
| 184-35<br>(TMW) | Based on VOC headspace field screening (Total Depth - 10 ft-bgs) | Soil: VOCs (8260B), PAHs (8270C-SIMS), RCRA Metals (6010/7470), and PCBs (8082)<br><br>Groundwater: VOCs (8260B), PAHs (8270C SIM), and Dissolved TAL RCRA Metals (6020) | Investigate *REC:* One (1) soil sample and one (1) groundwater sample. Northwest portion of the Property. Investigate potential impacts from *REC*. |

# 2 Field Activities

## 2.1 Property-Specific Health and Safety Plan and AL One Call Notification

Prior to the initiation of field activities, ATC prepared a Property-specific Health and Safety Plan (HASP) to minimize the risk of potential exposure to chemical and physical hazards associated with the subsurface investigation. Additionally, a private utility locating firm and the Arkansas One Call Service (AR One Call) was contacted to provide underground utility marking at the property prior to the initiation of field activities.

## 2.2 Ground Penetrating Radar (GPR) Survey

On January 31, 2020, ATC supervised the completion of a ground penetrating radar (GPR) survey at the Property. The GPR survey was conducted by Ground Penetrating Radar System, Inc. of Memphis, Tennessee. GPR survey activities were conducted near each of the proposed boring locations to identify potential underground utilities in the area of the proposed soil borings.

Woodruff Electric Co-Op Corp., identified as having operated at the Property, is listed on the UST database. According to the UST database, the facility housed one 12,000-gallon gasoline tank which was installed in January 1975 and removed from the site in December 1988. No closure documentation was received from an ADEQ file review that was performed as part of the investigation. A GPR survey was conducted in the area of the historical UST. No anomalies or voids were identified that would be indicative of an UST. Additionally, ATC received a copy of the “Notification for Underground Storage Tanks” dated December 20, 1988 that specified that the UST was removed from the ground on December 6, 1988. A copy of the December 20, 1988 Notification for Underground Storage Tanks is included as **Appendix C**.

## 2.3 Subsurface Activities

On February 4 - 7, 2020, a total of eighteen (18) soil borings were advanced at the Property, with four (4) of the borings being completed as a TMWs. The soil borings were advanced at the Property by McCray Drilling, LLC of Memphis, Tennessee, using hand auger and direct push drilling methods. The soil borings were advanced in areas of concern as identified in the **Section 1.5**, **Soil Boring and Sample Collection Plan**. ATC oversaw the drilling activities and prepared detailed logs of the subsurface material. Descriptions of the subsurface material in each sample location were based upon the Unified Soil Classification System (USCS). Field observations such as odor, staining, and total photo-ionizable vapors were recorded in the boring logs. Sampling tools were decontaminated between sampling location.

The proposed scope of work originally included nineteen (19) soil borings; however, sand backfill was encountered on two (2) attempts during advancement of soil boring 184-13. Therefore, the boring location was abandoned due to the failure to meet the subsurface utility clearance protocols. Additionally, the boring could not be relocated nearby due to the building footprint(s) and underground/overhead utilities located east of the boring location.

### 2.3.1 Soil Boring and Sample Collection

Each soil boring was hand cleared to six (6) feet below ground surface (ft-bgs) using a hand auger to ensure underground utilities were not encountered. The direct push technology involved driving a sampling barrel into the subsurface with a hydraulic ram. Soil samples were collected in duplicate for each two (2) foot composite sample interval. The first portion was placed into a re-sealable plastic bag and sealed for field screening; the second portion was placed into laboratory supplied glass jars with Teflon lined lids. The jarred samples were immediately placed in a cooler with ice for potential laboratory analysis. To reduce the possibility of cross-contamination, a new pair of disposable gloves was worn by the geologist and engineer for each sample collected.

Soil samples were screened with a photo-ionization detector (PID), which measures total photo-ionizable vapors in parts per million (ppm). The PID was calibrated in the field each day with 100 ppm isobutylene calibration gas. PID readings are included on the boring logs in **Appendix A**.

### 2.3.2 Temporary Groundwater Monitoring Well Installation and Groundwater Sampling

Four (4) of the eighteen (18) soil borings were converted into TMWs for the collection of groundwater samples. Boring 184-18 was advanced to sixteen (16) ft-bgs and a TMW was installed to determine if groundwater was impacted in the vicinity of the former pole storage areas. Boring 184-14A was advanced to twelve (12) ft-bgs and a TMW was installed to determine if groundwater was impacted in the vicinity of the in a former transformer storage area. Boring 184-12A was advanced to twelve (12) ft-bgs and a TMW was installed to determine if groundwater was impacted in the vicinity of the area west of the former UST area. Boring 184-34 was advanced to twelve (12) ft-bgs and a TMW was installed to determine if groundwater was impacted as a result of the former northern adjacent UST facility.

Groundwater samples were collected using a peristaltic pump and placed in laboratory prepared containers, labeled, and immediately placed on ice. Clean dedicated tubing and new disposable gloves were used for each groundwater sample collected.

### 2.3.3 Laboratory Analysis

Based on the nature of the concerns noted in the January 2020 Phase I ESA, the samples were analyzed for the following parameters:

**Soil**

- Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) Method 8260B;
- Polynuclear Aromatics Hydrocarbons (PAHs) by EPA Method 8270-SIM;
- Resource Conservation and Recovery Act (RCRA) Metals by EPA Method 6010/7470; and
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082
- Toxicity Characteristic Leaching Procedure (TCLP) RCRA Metals by EPA Method 6010/7470

**Groundwater**

- VOCs by EPA Method 8260B;
- PAHs by EPA Method 8270-SIM;
- RCRA Metals by EPA Method 6010/7470.

The complete laboratory report is included as **Appendix B**.

## 2.4 Waste Disposal

Soil generated during the investigation was returned back to the respective borings.

# 3 Field Observations

## 3.1 Site Geology / Hydrogeology

According to the United States Geological Survey (USGS) 7.5-Minute Series Topographic Map, *Forrest City, Arkansas (2014) Quadrangle*, the Property is located approximately 275 to 310 feet above mean sea level (AMSL). The Property and surrounding area properties are relatively level with a slope toward the west-northwest. A copy of the topographic map is included as **Figure 1**. The location of each soil boring installed at the Property is depicted on **Figure 2**. The soil boring logs are included as **Appendix A**.

According to the USGS *Geologic Map of Arkansas*, dated 1993, the Property is underlain by soils consisting of alluvial deposits on one (1) or more terrace levels.

According to the *Arkansas Natural Resources Commission (ANRC) Arkansas Water Plan Update*, the Property is located within the Mississippi Alluvial Plain and groundwater in the region of the Property is obtained from the Cockfield Aquifer. The aquifer has a median specific capacity of 0.76 gallons per minute per foot with the potentiometric surface being near or above land surface in some areas. Additionally, the Property is indicated to be within a critical groundwater designation as of 2009.

### 3.1.1 Soil Classification (Grain Size Analysis)

A geotechnical investigation was completed for the Property, which was submitted to Speedway, LLC on January 28, 2020. The test borings generally encountered three (3) residuum soil (residual soil) stratums. The soil stratums consisted of Sandy Clay (CL), Sand (S) and Lean Clay (CH). Bedrock was not encountered during drilling operations.

Groundwater was observed at the time the soil borings were drilled at depths ranging from approximately twelve (12) to fifteen (15) ft-bgs. Please note that short-term water level observations in test borings do not provide accurate groundwater levels and fluctuations in the level of the groundwater may occur due to variations in rainfall and other factors. In addition, perched water is possible and may be encountered at shallower depths.

### 3.1.2 Hydrogeology

Saturated conditions were generally encountered at seven (7) to nine (9) ft-bgs throughout the Property, with the exception of borings 184-29, 184-31 and 184-32. An approximate ten (10) foot elevation drop is located north of the east end of the Property which has the potential to influence the hydrology surrounding the above referenced boring locations. In TMWs where groundwater was encountered, groundwater stabilized around three (3) ft-bgs.

# 4 Analytical Results

One of the purposes of this Limited Phase II ESA was to determine the presence/absence of hazardous materials/petroleum products in soil and groundwater underlying the Property in concentrations that exceed the EPA Regional Screening Levels (RSLs). The laboratory reports were received from Pace Analytical (Pace) on February 18, 2020. The following sub-sections provide a summary of the laboratory analytical data reporting for the selected constituents of concern whether or not additional regulatory action under ADEQ regulations would be warranted on the part of Speedway. A summary of the soil analytical results can be found in **Table 1.** A complete lab report is included as **Appendix B**.

## 4.1 Constituent of Concern Evaluation Criteria

The laboratory analytical results for soil and groundwater were compared to the EPA RSLs for residential and commercial usage, EPA Tapwater Criteria and the EPA Maximum Contaminant Levels (MCLs). The ADEQ does have specific risk-based screening levels for soil and groundwater.

## 4.2 Soil Analytical Results

A total of eighteen (18) soil samples were submitted for laboratory analyses of VOCs, PAHs, RCRA Metals and PCBs. For future disposal purposes, one (1) additional composite sample was submitted for laboratory TCLP RCRA Metals analysis. A summary of the soil laboratory analytical results are provided below:

- Investigation activities at the Property reported adsorbed VOC concentrations above the laboratory detection limits, but below the EPA RSLs for residential usage.
- Investigation activities at the Property reported adsorbed PAH concentrations of benzo(a)pyrene above the EPA RSL of 0.11 milligrams per kilogram (mg/kg) for residential usage, but below the EPA RSL of 2.1 mg/kg for commercial usage. Additionally, all other adsorbed PAH concentrations were reported below the EPA RSLs for residential usage.
- Investigation activities at the Property reported adsorbed RCRA Metals concentrations of Arsenic above the EPA RSL of 0.68 mg/kg for residential usage, but below the EPA RSL of 3.0 mg/kg for commercial usage in two (2) of the soil samples; and above the EPA RSL of 3.0 mg/kg for commercial usage in sixteen (16) of the soil samples. Additionally, all other adsorbed RCRA Metals concentrations were reported below the EPA RSLs for residential usage.
- Investigation activities at the Property reported no adsorbed PCB concentrations above the laboratory detection limits.
- Investigation activities at the Property reported adsorbed TCLP RCRA Metals concentrations of Barium above laboratory detection limits, but below the EPA RSL of 1500 milligrams per liter (mg/L) for residential usage. Additionally, all other TCLP RCRA Metals concentrations were reported below laboratory detection limits.

A VOC Concentrations in Soil figure is included as **Figure 3**. A PAH Concentrations in Soil figure is included as **Figure 4**. A RCRA Metals Concentrations in Soil figure is included as **Figure 5**. A PCB Concentrations in Soil figure is included as **Figure 6**. A Soil Analytical Results Table is included as **Table 1**. A Soil TCLP RCRA Metals Analytical Results Table is included as **Table 2**.

## 4.3 Groundwater Analytical Results

A total of four (4) groundwater samples were submitted for laboratory analyses of VOCs, PAHs and RCRA Metals. A summary of the groundwater laboratory analytical results are provided below:

- Investigation activities at the Property reported dissolved VOC concentrations above the laboratory detection limits, but below the EPA Tapwater Criteria and MCLs.

- Investigation activities at the Property reported dissolved PAH concentrations of benzo(a)anthracene, benzo(a)pyrene, benzo(a)fluoranthene, dibenz(a,h)anthracene and naphthalene above their respective Tapwater Criteria; MCLs have not been determined for many of the contaminants listed above. Additionally, all other dissolved PAH concentrations were reported below their respective EPA Tapwater Criteria and MCLs.
- Investigation activities at the Property reported dissolved RCRA Metals concentrations of arsenic, barium, cadmium, chromium and lead above their respective EPA Tapwater Criteria and MCLs.

Investigation activities were intended to include analysis of dissolved PCBs in groundwater; however, based on the soil laboratory analytical report, no adsorbed PCB concentrations were reported above the laboratory detection limits. Therefore, analysis of PCBs in groundwater is not warranted at this time.

A VOC Concentrations in Groundwater figure is included as **Figure 7**. A PAH Concentrations in Groundwater figure is included as **Figure 8**. A RCRA Metals Concentrations in Groundwater figure is included as **Figure 9**. A Groundwater Analytical Results Table is included as **Table 3**.

## 4.4 Findings

A total of eighteen (18) soil samples were submitted for laboratory analyses of VOCs, PAHs, RCRA Metals and PCBs. For future disposal purposes, one (1) additional composite sample was submitted for laboratory TCLP RCRA Metals analysis. A summary of the soil laboratory analytical results are provided below:

- Investigation activities at the Property reported adsorbed VOC concentrations above the laboratory detection limits, but below the EPA RSLs for residential usage.
- Investigation activities at the Property reported adsorbed PAH concentrations of benzo(a)pyrene above the EPA RSL of 0.11 milligrams per kilogram (mg/kg) for residential usage, but below the EPA RSL of 2.1 mg/kg for commercial usage. Additionally, all other adsorbed PAH concentrations were reported below the EPA RSLs for residential usage.
- Investigation activities at the Property reported adsorbed RCRA Metals concentrations of Arsenic above the EPA RSL of 0.68 mg/kg for residential usage, but below the EPA RSL of 3.0 mg/kg for commercial usage in two (2) of the soil samples; and above the EPA RSL of 3.0 mg/kg for commercial usage in sixteen (16) of the soil samples. Additionally, all other adsorbed RCRA Metals concentrations were reported below the EPA RSLs for residential usage.
- Investigation activities at the Property reported no adsorbed PCB concentrations above the laboratory detection limits.
- Investigation activities at the Property reported adsorbed TCLP RCRA Metals concentrations of Barium above laboratory detection limits, but below the EPA RSL of 1500 milligrams per liter (mg/L) for residential usage. Additionally, all other TCLP RCRA Metals concentrations were reported below laboratory detection limits.

A total of four (4) groundwater samples were submitted for laboratory analyses of VOCs, PAHs, RCRA Metals and PCBs. A summary of the groundwater laboratory analytical results are provided below:

- Investigation activities at the Property reported dissolved VOC concentrations above the laboratory detection limits, but below the EPA Tapwater Criteria and MCLs.
- Investigation activities at the Property reported dissolved PAH concentrations of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(a)fluoranthene, Dibenz(a,h)anthracene and Naphthalene above their respective Tapwater Criteria; MCLs have not been determined for many of the contaminants listed above. Additionally, all other dissolved PAH concentrations were reported below their respective EPA Tapwater Criteria and MCLs.

- Investigation activities at the Property reported dissolved RCRA Metals concentrations of Arsenic, Barium, Cadmium, Chromium and Lead above their respective EPA Tapwater Criteria and MCLs.

# 5 Conclusions

Based on the Limited Phase II ESA investigation performed at the Property, ATC provides the following conclusions and recommendations:

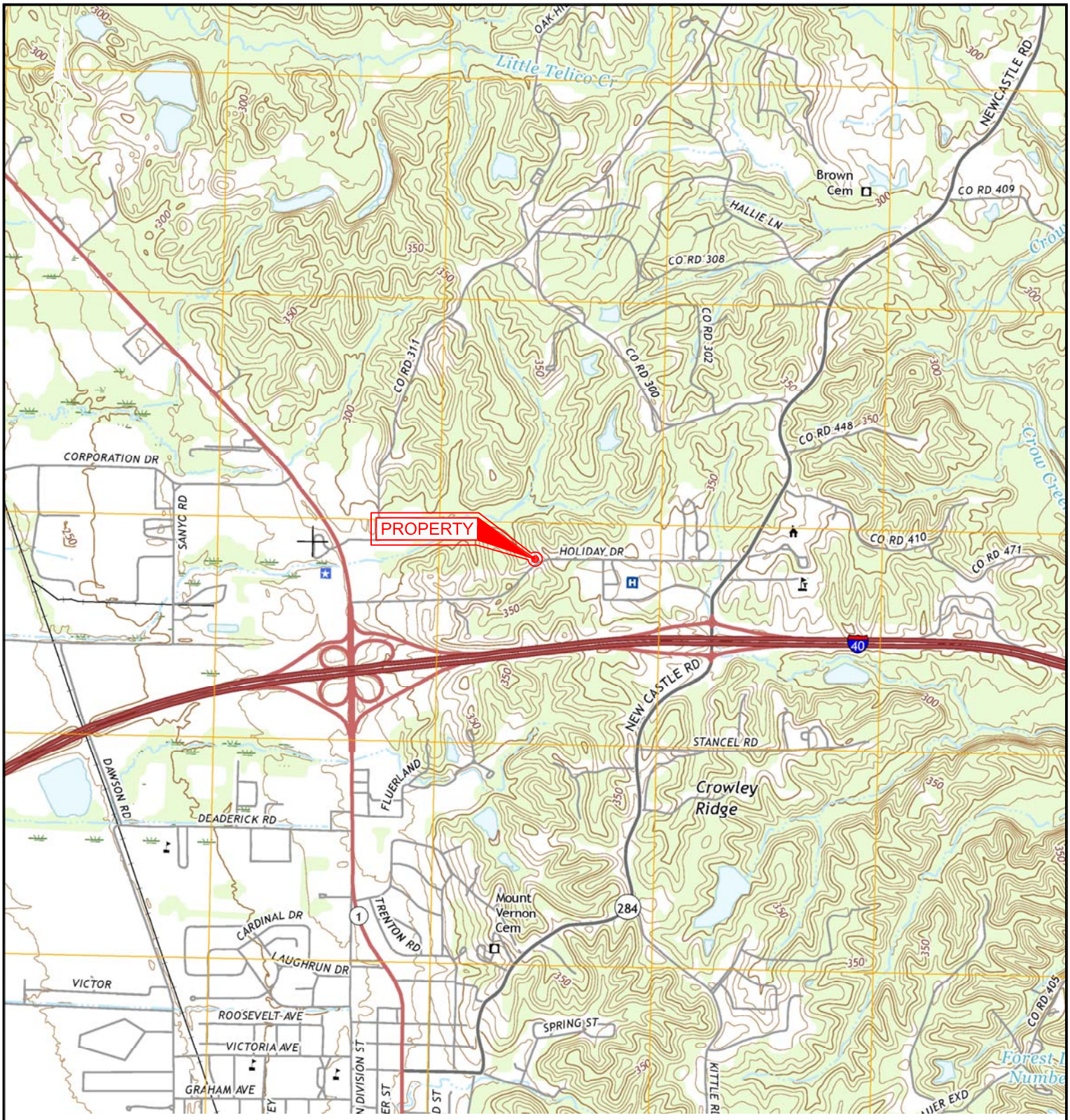
- Investigation activities at the Property reported adsorbed and dissolved soil/groundwater concentrations above EPA RSLs for residential and commercial usage as well as EPA Tapwater Criteria and MCLs.
- Based on the reported soil and groundwater analytical for the Property, ATC recommends that the current Property owner supply ADEQ with the Limited Phase II ESA findings.

# 6 Report Limitations

This investigation is intended to be a non-biased assessment of on-site environmental conditions as presented by the data gathered during the investigation described herein. Subsurface investigative and methodologies were performed in general accordance with applicable state and federal regulatory requirements. The information presented in this report is based upon Property-specific observations, generally accepted geological and environmental consulting practices, and analytical results for environmental samples collected at the time the field investigation was performed. The data presented in this report are believed to represent subsurface conditions at the Property; however, data may not be completely representative of subsurface conditions at every location. ATC assumes no liability arising from environmental impact to, or from, the Property, regardless of the date of impact occurrence or findings.

Proposed Speedway No. 101184

# FIGURES




GRAPHIC SCALE

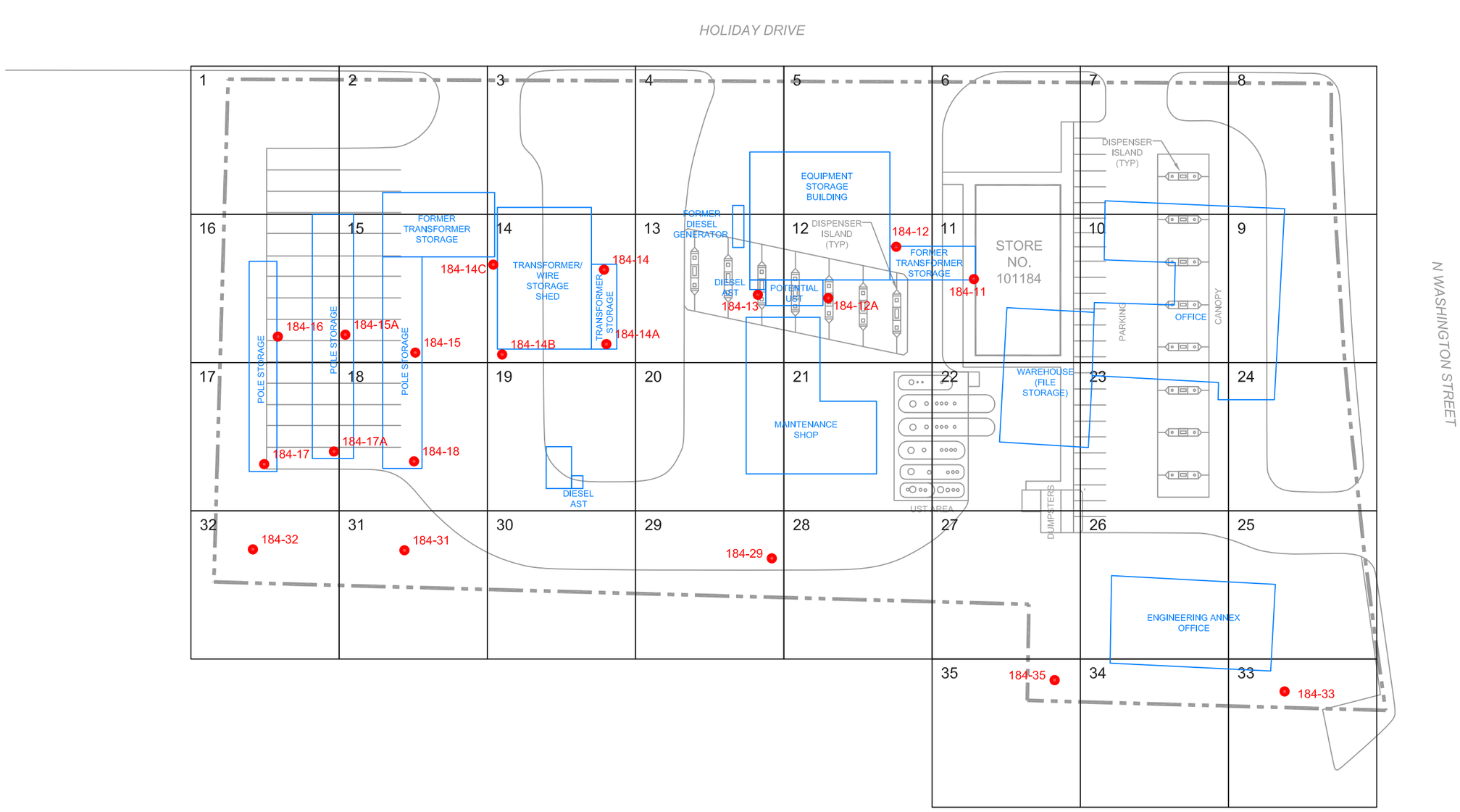
0 1,000 2,000

(IN FEET)

1 INCH ≈ 2,000 ft.

SOURCE: 7.5 MINUTE SERIES USGS QUADRANGLE MAP; FORREST CITY, ARKANSAS, DATED 2017.

| | | | |
|---|---|---|---|
| Project: PROPOSED SPEEDWAY STORE NO. 101184 NEC OF WASHINGTON STREET AND HOLIDAY DRIVE FORREST CITY, ARKANSAS | FIGURE 1 PROPERTY VICINITY MAP | Drawn By: M. LIFE | ATC |
| Job No.: . | | Checked By: | |
| | | Date: 02/19/20 | |




LEGEND:

PROPERTY LINE

BORING LOCATION

TEMPORARY WELL LOCATION

GRID CELL SPACING = 81 FEET

GRAPHIC SCALE

0 30 60

(IN FEET)

1 INCH ≈ 60 ft.

ATC

| PROJECT: | | | | TITLE: | |
|---|---|---|---|---|---|
| PROPOSED SPEEDWAY STORE NO. 101184<br>NEC OF WASHINGTON STREET AND HOLIDAY DRIVE<br>FORREST CITY, ARKANSAS | | | | PROPERTY MAP WITH BORING/TEMPORARY WELL LOCATIONS | |
| DRAWN BY: MKL | DATE: 02/19/20 | PROJECT NO.: . | | SCALE: 1" ≈ 60' | PAGE/FIG. NO.: 2 |
| CHECKED BY: ML | DATE: | REPORT NO.: | | | |

| 184-11 | |
|---|---|
| 02/07/2020 | |
| COCs | mg/Kg |
| 1,2,3-TRIMETHYLBENZENE | <0.00500 |
| 1,2,4-TRIMETHYLBENZENE | <0.00500 |
| 1,3,5-TRIMETHYLBENZENE | <0.00500 |
| 2-BUTANONE (MEK) | 0.0344 |
| CHLOROFORM | 0.000593 |
| NAPHTHALENE | <0.0125 |

| 184-12 | |
|---|---|
| 02/07/2020 | |
| COCs | mg/Kg |
| 1,2,3-TRIMETHYLBENZENE | <0.00500 |
| 1,2,4-TRIMETHYLBENZENE | <0.00500 |
| 1,3,5-TRIMETHYLBENZENE | <0.00500 |
| 2-BUTANONE (MEK) | 0.0274 |
| CHLOROFORM | <0.00250 |
| NAPHTHALENE | <0.0125 |

| 184-12A | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| 1,2,3-TRIMETHYLBENZENE | <0.00500 |
| 1,2,4-TRIMETHYLBENZENE | <0.00500 |
| 1,3,5-TRIMETHYLBENZENE | <0.00500 |
| 2-BUTANONE (MEK) | 0.023 |
| CHLOROFORM | <0.00250 |
| NAPHTHALENE | <0.0125 |

| 184-14 | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| 1,2,3-TRIMETHYLBENZENE | <0.00500 |
| 1,2,4-TRIMETHYLBENZENE | <0.00500 |
| 1,3,5-TRIMETHYLBENZENE | <0.00500 |
| 2-BUTANONE (MEK) | 0.0233 |
| CHLOROFORM | 0.000866 |
| NAPHTHALENE | <0.0125 |

| 184-14A | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| 1,2,3-TRIMETHYLBENZENE | 0.00163 |
| 1,2,4-TRIMETHYLBENZENE | 0.00196 |
| 1,3,5-TRIMETHYLBENZENE | 0.00137 |
| 2-BUTANONE (MEK) | 0.0253 |
| CHLOROFORM | <0.00250 |
| NAPHTHALENE | <0.0125 |

| 184-14B | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| 1,2,3-TRIMETHYLBENZENE | <0.00500 |
| 1,2,4-TRIMETHYLBENZENE | <0.00500 |
| 1,3,5-TRIMETHYLBENZENE | <0.00500 |
| 2-BUTANONE (MEK) | 0.0265 |
| CHLOROFORM | <0.00250 |
| NAPHTHALENE | <0.0125 |

| 184-14C | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| 1,2,3-TRIMETHYLBENZENE | <0.00500 |
| 1,2,4-TRIMETHYLBENZENE | <0.00500 |
| 1,3,5-TRIMETHYLBENZENE | <0.00500 |
| 2-BUTANONE (MEK) | 0.0289 |
| CHLOROFORM | <0.00250 |
| NAPHTHALENE | <0.0125 |

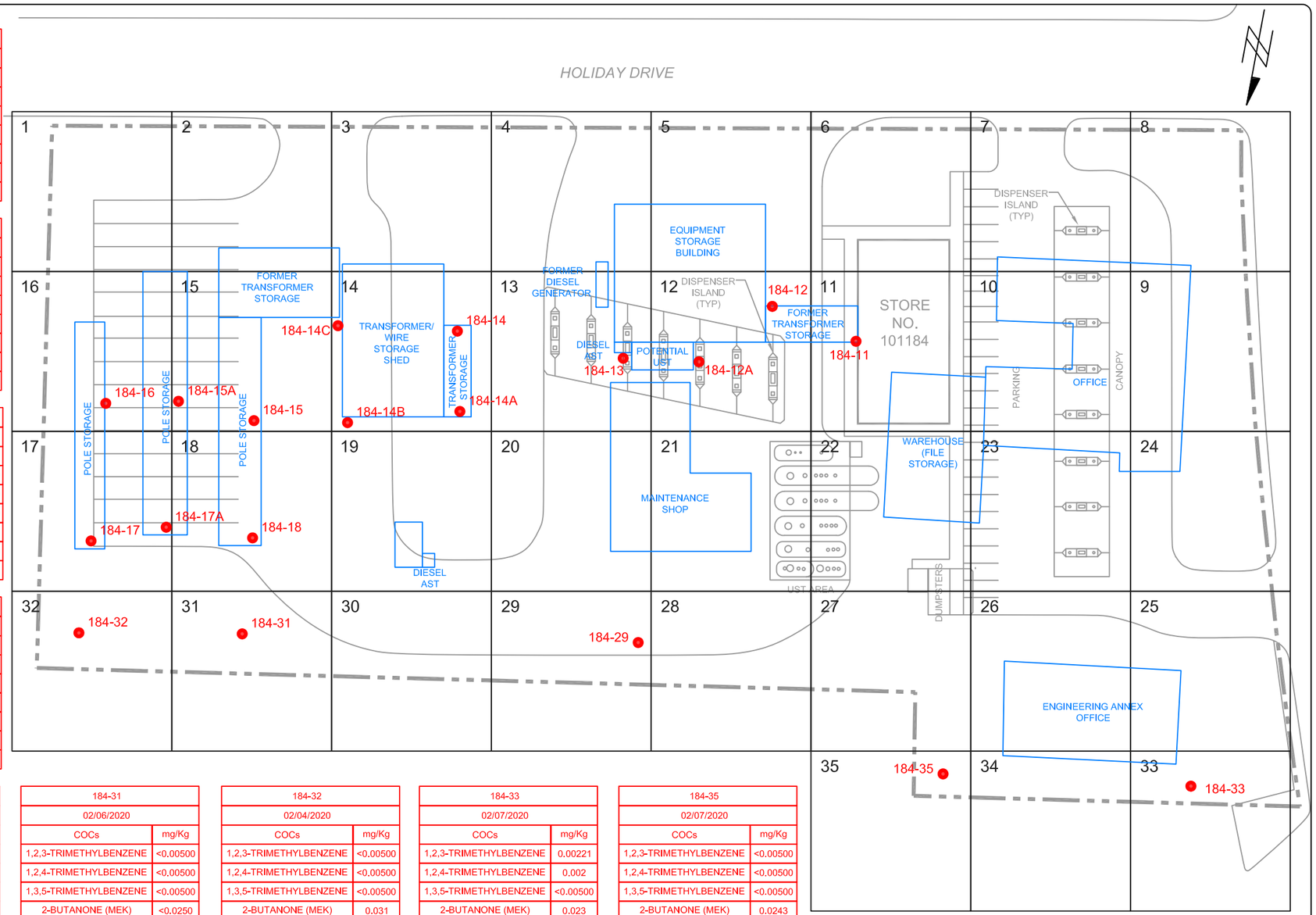
| 184-15 | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| 1,2,3-TRIMETHYLBENZENE | <0.00500 |
| 1,2,4-TRIMETHYLBENZENE | <0.00500 |
| 1,3,5-TRIMETHYLBENZENE | <0.00500 |
| 2-BUTANONE (MEK) | <0.0250 |
| CHLOROFORM | <0.00250 |
| NAPHTHALENE | <0.0125 |

| 184-15A | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| 1,2,3-TRIMETHYLBENZENE | <0.00500 |
| 1,2,4-TRIMETHYLBENZENE | <0.00500 |
| 1,3,5-TRIMETHYLBENZENE | <0.00500 |
| 2-BUTANONE (MEK) | <0.0250 |
| CHLOROFORM | <0.00250 |
| NAPHTHALENE | <0.0125 |

| 184-16 | |
|---|---|
| 02/04/2020 | |
| COCs | mg/Kg |
| 1,2,3-TRIMETHYLBENZENE | <0.00500 |
| 1,2,4-TRIMETHYLBENZENE | <0.00500 |
| 1,3,5-TRIMETHYLBENZENE | <0.00500 |
| 2-BUTANONE (MEK) | 0.0412 |
| CHLOROFORM | <0.00250 |
| NAPHTHALENE | <0.0125 |

| 184-17 | |
|---|---|
| 02/04/2020 | |
| COCs | mg/Kg |
| 1,2,3-TRIMETHYLBENZENE | <0.00500 |
| 1,2,4-TRIMETHYLBENZENE | <0.00500 |
| 1,3,5-TRIMETHYLBENZENE | <0.00500 |
| 2-BUTANONE (MEK) | 0.034 |
| CHLOROFORM | <0.00250 |
| NAPHTHALENE | <0.0125 |

| 184-17A | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| 1,2,3-TRIMETHYLBENZENE | <0.00500 |
| 1,2,4-TRIMETHYLBENZENE | <0.00500 |
| 1,3,5-TRIMETHYLBENZENE | <0.00500 |
| 2-BUTANONE (MEK) | 0.0472 |
| CHLOROFORM | <0.00250 |
| NAPHTHALENE | <0.0125 |




| 184-18 | |
|---|---|
| 02/04/2020 | |
| COCs | mg/Kg |
| 1,2,3-TRIMETHYLBENZENE | <0.00500 |
| 1,2,4-TRIMETHYLBENZENE | <0.00500 |
| 1,3,5-TRIMETHYLBENZENE | <0.00500 |
| 2-BUTANONE (MEK) | <0.0250 |
| CHLOROFORM | <0.00250 |
| NAPHTHALENE | <0.0125 |

| 184-29 | |
|---|---|
| 02/04/2020 | |
| COCs | mg/Kg |
| 1,2,3-TRIMETHYLBENZENE | <0.00500 |
| 1,2,4-TRIMETHYLBENZENE | <0.00500 |
| 1,3,5-TRIMETHYLBENZENE | <0.00500 |
| 2-BUTANONE (MEK) | 0.045 |
| CHLOROFORM | <0.00250 |
| NAPHTHALENE | <0.0125 |

| 184-31 | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| 1,2,3-TRIMETHYLBENZENE | <0.00500 |
| 1,2,4-TRIMETHYLBENZENE | <0.00500 |
| 1,3,5-TRIMETHYLBENZENE | <0.00500 |
| 2-BUTANONE (MEK) | <0.0250 |
| CHLOROFORM | <0.00250 |
| NAPHTHALENE | <0.0125 |

| 184-32 | |
|---|---|
| 02/04/2020 | |
| COCs | mg/Kg |
| 1,2,3-TRIMETHYLBENZENE | <0.00500 |
| 1,2,4-TRIMETHYLBENZENE | <0.00500 |
| 1,3,5-TRIMETHYLBENZENE | <0.00500 |
| 2-BUTANONE (MEK) | 0.031 |
| CHLOROFORM | <0.00250 |
| NAPHTHALENE | <0.0125 |

| 184-33 | |
|---|---|
| 02/07/2020 | |
| COCs | mg/Kg |
| 1,2,3-TRIMETHYLBENZENE | 0.00221 |
| 1,2,4-TRIMETHYLBENZENE | 0.002 |
| 1,3,5-TRIMETHYLBENZENE | <0.00500 |
| 2-BUTANONE (MEK) | 0.023 |
| CHLOROFORM | <0.00250 |
| NAPHTHALENE | <0.0125 |

| 184-35 | |
|---|---|
| 02/07/2020 | |
| COCs | mg/Kg |
| 1,2,3-TRIMETHYLBENZENE | <0.00500 |
| 1,2,4-TRIMETHYLBENZENE | <0.00500 |
| 1,3,5-TRIMETHYLBENZENE | <0.00500 |
| 2-BUTANONE (MEK) | 0.0243 |
| CHLOROFORM | <0.00250 |
| NAPHTHALENE | <0.0125 |

GRAPHIC SCALE

0 30 60

(IN FEET)

1 INCH ≈ 60 ft.

LEGEND:

PROPERTY LINE

BORING LOCATION

TEMPORARY WELL LOCATION

VALUES INDICATE SOIL COCS ABOVE EPA RSLS FOR RESIDENTIAL USAGE

VALUES INDICATE SOIL COCS ABOVE EPA RSL FOR COMMERCIAL USAGE

GRID CELL SPACING = 81 FEET

ATC

PROJECT:

PROPOSED SPEEDWAY STORE NO. 101184
NEC OF WASHINGTON STREET AND HOLIDAY DRIVE
FORREST CITY, ARKANSAS

TITLE:

# VOC CONCENTRATIONS IN SOIL

| DRAWN BY: MKL | DATE: 02/19/20 | PROJECT NO.: . | SCALE: 1" ≈ 60' | PAGE/FIG. NO.: 3 |
|---|---|---|---|---|
| CHECKED BY: ML | DATE: | REPORT NO.: | | |

| 184-11 | |
|---|---|
| 02/07/2020 | |
| COCs | mg/Kg |
| ANTHRACENE | 0.0299 |
| ACENAPHTHENE | 0.0408 |
| ACENAPHTHYLENE | 0.000889 |
| BENZO(A)ANTHRACENE | 0.189 |
| BENZO(A)PYRENE | 0.192 |
| BENZO(B)FLUORANTHENE | 0.317 |
| BENZO(G,H,I)PERYLENE | 0.146 |
| BENZO(K)FLUORANTHENE | 0.0913 |
| CHRYSENE | 0.245 |
| DIBENZ(A,H)ANTHRACENE | 0.0378 |
| FLUORANTHENE | 0.657 |
| FLUORENE | 0.0376 |
| INDENO(1,2,3-CD)PYRENE | 0.134 |
| NAPHTHALENE | 0.0123 |
| PHENANTHRENE | 0.607 |
| PYRENE | 0.602 |
| 1-METHYLNAPHTHALENE | 0.00471 |
| 2-METHYLNAPHTHALENE | 0.00543 |

| 184-12 | |
|---|---|
| 02/07/2020 | |
| COCs | mg/Kg |
| ANTHRACENE | 0.0029 |
| ACENAPHTHENE | 0.00318 |
| ACENAPHTHYLENE | <0.00600 |
| BENZO(A)ANTHRACENE | 0.0231 |
| BENZO(A)PYRENE | 0.0256 |
| BENZO(B)FLUORANTHENE | 0.039 |
| BENZO(G,H,I)PERYLENE | 0.0202 |
| BENZO(K)FLUORANTHENE | 0.0147 |
| CHRYSENE | 0.0287 |
| DIBENZ(A,H)ANTHRACENE | 0.00489 |
| FLUORANTHENE | 0.0831 |
| FLUORENE | 0.00337 |
| INDENO(1,2,3-CD)PYRENE | 0.0174 |
| NAPHTHALENE | <0.0200 |
| PHENANTHRENE | 0.0652 |
| PYRENE | 0.0772 |
| 1-METHYLNAPHTHALENE | <0.0200 |
| 2-METHYLNAPHTHALENE | <0.0200 |

| 184-12A | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| ANTHRACENE | <0.00600 |
| ACENAPHTHENE | <0.00600 |
| ACENAPHTHYLENE | <0.00600 |
| BENZO(A)ANTHRACENE | <0.00600 |
| BENZO(A)PYRENE | <0.00600 |
| BENZO(B)FLUORANTHENE | <0.00600 |
| BENZO(G,H,I)PERYLENE | <0.00600 |
| BENZO(K)FLUORANTHENE | <0.00600 |
| CHRYSENE | <0.00600 |
| DIBENZ(A,H)ANTHRACENE | <0.00600 |
| FLUORANTHENE | <0.00600 |
| FLUORENE | <0.00600 |
| INDENO(1,2,3-CD)PYRENE | <0.00600 |
| NAPHTHALENE | <0.0200 |
| PHENANTHRENE | <0.00600 |
| PYRENE | <0.00600 |
| 1-METHYLNAPHTHALENE | <0.0200 |
| 2-METHYLNAPHTHALENE | <0.0200 |

| 184-14 | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| ANTHRACENE | 0.00298 |
| ACENAPHTHENE | 0.00165 |
| ACENAPHTHYLENE | <0.00600 |
| BENZO(A)ANTHRACENE | 0.0213 |
| BENZO(A)PYRENE | 0.0235 |
| BENZO(B)FLUORANTHENE | 0.0424 |
| BENZO(G,H,I)PERYLENE | 0.0206 |
| BENZO(K)FLUORANTHENE | 0.0107 |
| CHRYSENE | 0.0285 |
| DIBENZ(A,H)ANTHRACENE | 0.00472 |
| FLUORANTHENE | 0.0835 |
| FLUORENE | 0.00162 |
| INDENO(1,2,3-CD)PYRENE | 0.0178 |
| NAPHTHALENE | <0.0200 |
| PHENANTHRENE | 0.046 |
| PYRENE | 0.0791 |
| 1-METHYLNAPHTHALENE | <0.0200 |
| 2-METHYLNAPHTHALENE | <0.0200 |

| 184-14A | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| ANTHRACENE | <0.00600 |
| ACENAPHTHENE | 0.000647 |
| ACENAPHTHYLENE | <0.00600 |
| BENZO(A)ANTHRACENE | 0.00345 |
| BENZO(A)PYRENE | 0.00391 |
| BENZO(B)FLUORANTHENE | 0.0063 |
| BENZO(G,H,I)PERYLENE | 0.0036 |
| BENZO(K)FLUORANTHENE | 0.00223 |
| CHRYSENE | 0.00455 |
| DIBENZ(A,H)ANTHRACENE | 0.000738 |
| FLUORANTHENE | 0.0135 |
| FLUORENE | 0.000646 |
| INDENO(1,2,3-CD)PYRENE | 0.00292 |
| NAPHTHALENE | <0.0200 |
| PHENANTHRENE | 0.0105 |
| PYRENE | 0.012 |
| 1-METHYLNAPHTHALENE | <0.0200 |
| 2-METHYLNAPHTHALENE | <0.0200 |

| 184-14B | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| ANTHRACENE | <0.00600 |
| ACENAPHTHENE | <0.00600 |
| ACENAPHTHYLENE | <0.00600 |
| BENZO(A)ANTHRACENE | <0.00600 |
| BENZO(A)PYRENE | <0.00600 |
| BENZO(B)FLUORANTHENE | <0.00600 |
| BENZO(G,H,I)PERYLENE | <0.00600 |
| BENZO(K)FLUORANTHENE | <0.00600 |
| CHRYSENE | <0.00600 |
| DIBENZ(A,H)ANTHRACENE | <0.00600 |
| FLUORANTHENE | 0.00862 |
| FLUORENE | <0.00600 |
| INDENO(1,2,3-CD)PYRENE | <0.00600 |
| NAPHTHALENE | <0.0200 |
| PHENANTHRENE | <0.00600 |
| PYRENE | 0.00649 |
| 1-METHYLNAPHTHALENE | <0.0200 |
| 2-METHYLNAPHTHALENE | <0.0200 |

| 184-14C | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| ANTHRACENE | <0.00600 |
| ACENAPHTHENE | <0.00600 |
| ACENAPHTHYLENE | <0.00600 |
| BENZO(A)ANTHRACENE | <0.00600 |
| BENZO(A)PYRENE | <0.00600 |
| BENZO(B)FLUORANTHENE | <0.00600 |
| BENZO(G,H,I)PERYLENE | <0.00600 |
| BENZO(K)FLUORANTHENE | <0.00600 |
| CHRYSENE | <0.00600 |
| DIBENZ(A,H)ANTHRACENE | <0.00600 |
| FLUORANTHENE | <0.00600 |
| FLUORENE | <0.00600 |
| INDENO(1,2,3-CD)PYRENE | <0.00600 |
| NAPHTHALENE | <0.0200 |
| PHENANTHRENE | <0.00600 |
| PYRENE | <0.00600 |
| 1-METHYLNAPHTHALENE | <0.0200 |
| 2-METHYLNAPHTHALENE | <0.0200 |

| 184-15 | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| ANTHRACENE | 0.051 |
| ACENAPHTHENE | 0.0807 |
| ACENAPHTHYLENE | <0.00600 |
| BENZO(A)ANTHRACENE | 0.0766 |
| BENZO(A)PYRENE | 0.0578 |
| BENZO(B)FLUORANTHENE | 0.161 |
| BENZO(G,H,I)PERYLENE | 0.0406 |
| BENZO(K)FLUORANTHENE | 0.0362 |
| CHRYSENE | 0.113 |
| DIBENZ(A,H)ANTHRACENE | 0.01 |
| FLUORANTHENE | 0.594 |
| FLUORENE | 0.074 |
| INDENO(1,2,3-CD)PYRENE | 0.0347 |
| NAPHTHALENE | 0.0757 |
| PHENANTHRENE | 0.187 |
| PYRENE | 0.373 |
| 1-METHYLNAPHTHALENE | <0.0200 |
| 2-METHYLNAPHTHALENE | 0.0382 |

| 184-15A | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| ANTHRACENE | <0.00600 |
| ACENAPHTHENE | <0.00600 |
| ACENAPHTHYLENE | <0.00600 |
| BENZO(A)ANTHRACENE | <0.00600 |
| BENZO(A)PYRENE | <0.00600 |
| BENZO(B)FLUORANTHENE | <0.00600 |
| BENZO(G,H,I)PERYLENE | <0.00600 |
| BENZO(K)FLUORANTHENE | <0.00600 |
| CHRYSENE | <0.00600 |
| DIBENZ(A,H)ANTHRACENE | <0.00600 |
| FLUORANTHENE | 0.00751 |
| FLUORENE | <0.00600 |
| INDENO(1,2,3-CD)PYRENE | <0.00600 |
| NAPHTHALENE | <0.0200 |
| PHENANTHRENE | <0.00600 |
| PYRENE | <0.00600 |
| 1-METHYLNAPHTHALENE | <0.0200 |
| 2-METHYLNAPHTHALENE | <0.0200 |

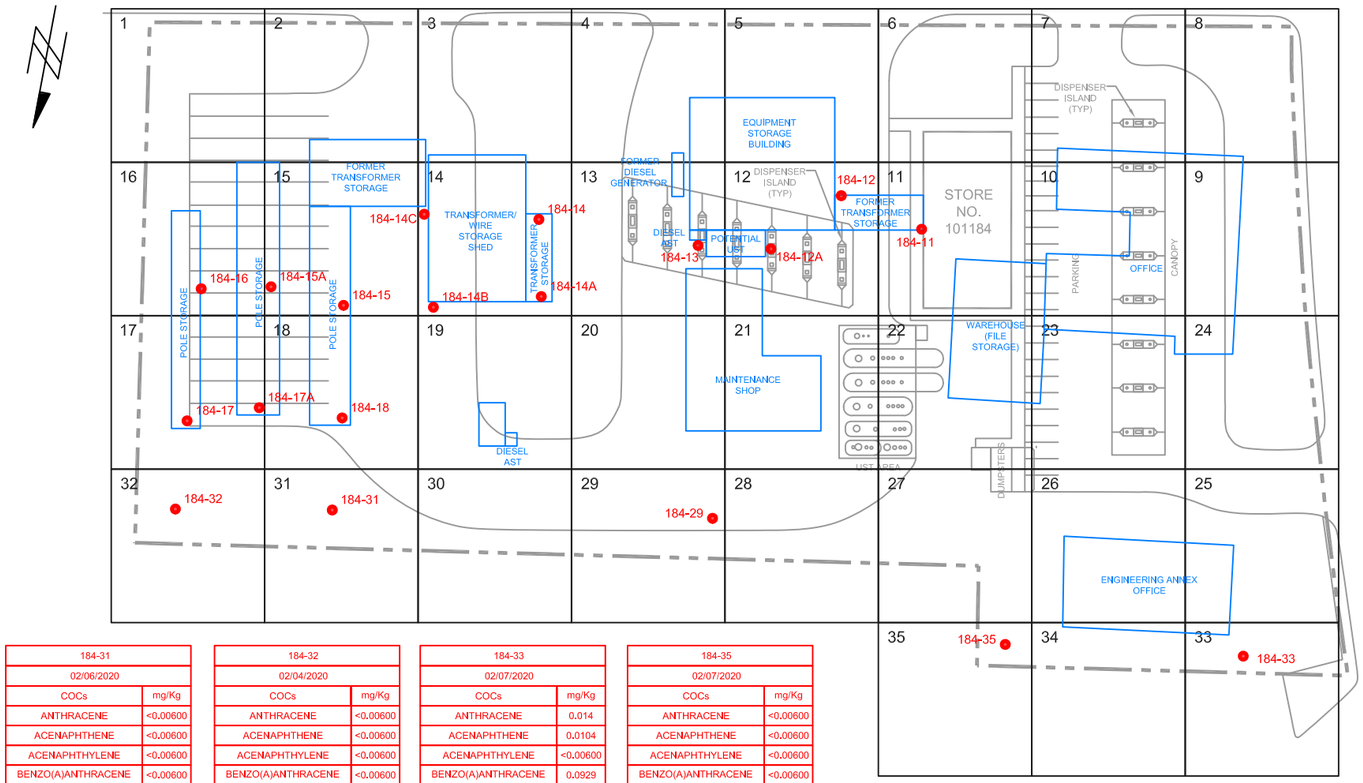
| 184-16 | |
|---|---|
| 02/04/2020 | |
| COCs | mg/Kg |
| ANTHRACENE | 0.0296 |
| ACENAPHTHENE | 0.0155 |
| ACENAPHTHYLENE | <0.00600 |
| BENZO(A)ANTHRACENE | 0.205 |
| BENZO(A)PYRENE | 0.199 |
| BENZO(B)FLUORANTHENE | 0.325 |
| BENZO(G,H,I)PERYLENE | 0.159 |
| BENZO(K)FLUORANTHENE | 0.105 |
| CHRYSENE | 0.248 |
| DIBENZ(A,H)ANTHRACENE | 0.0385 |
| FLUORANTHENE | 0.809 |
| FLUORENE | 0.0164 |
| INDENO(1,2,3-CD)PYRENE | 0.134 |
| NAPHTHALENE | <0.0200 |
| PHENANTHRENE | 0.464 |
| PYRENE | 0.564 |
| 1-METHYLNAPHTHALENE | <0.0200 |
| 2-METHYLNAPHTHALENE | <0.0200 |

| 184-17 | |
|---|---|
| 02/04/2020 | |
| COCs | mg/Kg |
| ANTHRACENE | <0.00600 |
| ACENAPHTHENE | <0.00600 |
| ACENAPHTHYLENE | <0.00600 |
| BENZO(A)ANTHRACENE | <0.00600 |
| BENZO(A)PYRENE | <0.00600 |
| BENZO(B)FLUORANTHENE | <0.00600 |
| BENZO(G,H,I)PERYLENE | <0.00600 |
| BENZO(K)FLUORANTHENE | <0.00600 |
| CHRYSENE | <0.00600 |
| DIBENZ(A,H)ANTHRACENE | <0.00600 |
| FLUORANTHENE | <0.00600 |
| FLUORENE | <0.00600 |
| INDENO(1,2,3-CD)PYRENE | <0.00600 |
| NAPHTHALENE | <0.0200 |
| PHENANTHRENE | <0.00600 |
| PYRENE | <0.00600 |
| 1-METHYLNAPHTHALENE | <0.0200 |
| 2-METHYLNAPHTHALENE | <0.0200 |

| 184-17A | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| ANTHRACENE | 0.0336 |
| ACENAPHTHENE | 0.0172 |
| ACENAPHTHYLENE | <0.00600 |
| BENZO(A)ANTHRACENE | 0.256 |
| BENZO(A)PYRENE | 0.297 |
| BENZO(B)FLUORANTHENE | 0.542 |
| BENZO(G,H,I)PERYLENE | 0.24 |
| BENZO(K)FLUORANTHENE | 0.12 |
| CHRYSENE | 0.269 |
| DIBENZ(A,H)ANTHRACENE | 0.0596 |
| FLUORANTHENE | 0.774 |
| FLUORENE | 0.0139 |
| INDENO(1,2,3-CD)PYRENE | 0.202 |
| NAPHTHALENE | <0.0200 |
| PHENANTHRENE | 0.328 |
| PYRENE | 0.582 |
| 1-METHYLNAPHTHALENE | <0.0200 |
| 2-METHYLNAPHTHALENE | <0.0200 |

| 184-18 | |
|---|---|
| 02/04/2020 | |
| COCs | mg/Kg |
| ANTHRACENE | <0.00600 |
| ACENAPHTHENE | <0.00600 |
| ACENAPHTHYLENE | <0.00600 |
| BENZO(A)ANTHRACENE | <0.00600 |
| BENZO(A)PYRENE | <0.00600 |
| BENZO(B)FLUORANTHENE | <0.00600 |
| BENZO(G,H,I)PERYLENE | <0.00600 |
| BENZO(K)FLUORANTHENE | <0.00600 |
| CHRYSENE | <0.00600 |
| DIBENZ(A,H)ANTHRACENE | <0.00600 |
| FLUORANTHENE | <0.00600 |
| FLUORENE | <0.00600 |
| INDENO(1,2,3-CD)PYRENE | <0.00600 |
| NAPHTHALENE | <0.0200 |
| PHENANTHRENE | <0.00600 |
| PYRENE | <0.00600 |
| 1-METHYLNAPHTHALENE | <0.0200 |
| 2-METHYLNAPHTHALENE | <0.0200 |

| 184-29 | |
|---|---|
| 02/04/2020 | |
| COCs | mg/Kg |
| ANTHRACENE | <0.00600 |
| ACENAPHTHENE | <0.00600 |
| ACENAPHTHYLENE | <0.00600 |
| BENZO(A)ANTHRACENE | <0.00600 |
| BENZO(A)PYRENE | <0.00600 |
| BENZO(B)FLUORANTHENE | <0.00600 |
| BENZO(G,H,I)PERYLENE | <0.00600 |
| BENZO(K)FLUORANTHENE | <0.00600 |
| CHRYSENE | <0.00600 |
| DIBENZ(A,H)ANTHRACENE | <0.00600 |
| FLUORANTHENE | <0.00600 |
| FLUORENE | <0.00600 |
| INDENO(1,2,3-CD)PYRENE | <0.00600 |
| NAPHTHALENE | <0.0200 |
| PHENANTHRENE | <0.00600 |
| PYRENE | <0.00600 |
| 1-METHYLNAPHTHALENE | <0.0200 |
| 2-METHYLNAPHTHALENE | <0.0200 |




| 184-31 | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| ANTHRACENE | <0.00600 |
| ACENAPHTHENE | <0.00600 |
| ACENAPHTHYLENE | <0.00600 |
| BENZO(A)ANTHRACENE | <0.00600 |
| BENZO(A)PYRENE | <0.00600 |
| BENZO(B)FLUORANTHENE | <0.00600 |
| BENZO(G,H,I)PERYLENE | <0.00600 |
| BENZO(K)FLUORANTHENE | <0.00600 |
| CHRYSENE | <0.00600 |
| DIBENZ(A,H)ANTHRACENE | <0.00600 |
| FLUORANTHENE | <0.00600 |
| FLUORENE | <0.00600 |
| INDENO(1,2,3-CD)PYRENE | <0.00600 |
| NAPHTHALENE | <0.0200 |
| PHENANTHRENE | <0.00600 |
| PYRENE | <0.00600 |
| 1-METHYLNAPHTHALENE | <0.0200 |
| 2-METHYLNAPHTHALENE | <0.0200 |

| 184-32 | |
|---|---|
| 02/04/2020 | |
| COCs | mg/Kg |
| ANTHRACENE | <0.00600 |
| ACENAPHTHENE | <0.00600 |
| ACENAPHTHYLENE | <0.00600 |
| BENZO(A)ANTHRACENE | <0.00600 |
| BENZO(A)PYRENE | <0.00600 |
| BENZO(B)FLUORANTHENE | <0.00600 |
| BENZO(G,H,I)PERYLENE | <0.00600 |
| BENZO(K)FLUORANTHENE | <0.00600 |
| CHRYSENE | <0.00600 |
| DIBENZ(A,H)ANTHRACENE | <0.00600 |
| FLUORANTHENE | 0.0139 |
| FLUORENE | <0.00600 |
| INDENO(1,2,3-CD)PYRENE | <0.00600 |
| NAPHTHALENE | <0.0200 |
| PHENANTHRENE | 0.00992 |
| PYRENE | 0.00926 |
| 1-METHYLNAPHTHALENE | <0.0200 |
| 2-METHYLNAPHTHALENE | <0.0200 |

| 184-33 | |
|---|---|
| 02/07/2020 | |
| COCs | mg/Kg |
| ANTHRACENE | 0.014 |
| ACENAPHTHENE | 0.0104 |
| ACENAPHTHYLENE | <0.00600 |
| BENZO(A)ANTHRACENE | 0.0929 |
| BENZO(A)PYRENE | 0.0972 |
| BENZO(B)FLUORANTHENE | 0.164 |
| BENZO(G,H,I)PERYLENE | 0.0699 |
| BENZO(K)FLUORANTHENE | 0.0483 |
| CHRYSENE | 0.117 |
| DIBENZ(A,H)ANTHRACENE | 0.0192 |
| FLUORANTHENE | 0.291 |
| FLUORENE | 0.0116 |
| INDENO(1,2,3-CD)PYRENE | 0.0671 |
| NAPHTHALENE | 0.00514 |
| PHENANTHRENE | 0.21 |
| PYRENE | 0.278 |
| 1-METHYLNAPHTHALENE | 0.00526 |
| 2-METHYLNAPHTHALENE | 0.00678 |

| 184-35 | |
|---|---|
| 02/07/2020 | |
| COCs | mg/Kg |
| ANTHRACENE | <0.00600 |
| ACENAPHTHENE | <0.00600 |
| ACENAPHTHYLENE | <0.00600 |
| BENZO(A)ANTHRACENE | <0.00600 |
| BENZO(A)PYRENE | <0.00600 |
| BENZO(B)FLUORANTHENE | <0.00600 |
| BENZO(G,H,I)PERYLENE | <0.00600 |
| BENZO(K)FLUORANTHENE | <0.00600 |
| CHRYSENE | <0.00600 |
| DIBENZ(A,H)ANTHRACENE | <0.00600 |
| FLUORANTHENE | <0.00600 |
| FLUORENE | <0.00600 |
| INDENO(1,2,3-CD)PYRENE | <0.00600 |
| NAPHTHALENE | <0.0200 |
| PHENANTHRENE | <0.00600 |
| PYRENE | <0.00600 |
| 1-METHYLNAPHTHALENE | <0.0200 |
| 2-METHYLNAPHTHALENE | <0.0200 |

LEGEND:

- PROPERTY LINE
- BORING LOCATION
- TEMPORARY WELL LOCATION
- VALUES INDICATE SOIL COCS ABOVE EPA RSLS FOR RESIDENTIAL USAGE
- VALUES INDICATE SOIL COCS ABOVE EPA RSL FOR COMMERCIAL USAGE

GRID CELL SPACING = 81 FEET

GRAPHIC SCALE

0 40 80

(IN FEET)

1 INCH ≈ 80 ft.

ATC

PROJECT:

PROPOSED SPEEDWAY STORE NO. 101184
NEC OF WASHINGTON STREET AND HOLIDAY DRIVE
FORREST CITY, ARKANSAS

TITLE:

# PAH CONCENTRATIONS IN SOIL

| DRAWN BY: MKL | DATE: 02/19/20 | PROJECT NO.: . | SCALE: 1" ≈ 80' | PAGE/FIG. NO.: 4 |
|---|---|---|---|---|
| CHECKED BY: ML | DATE: | REPORT NO.: | | |

| 184-11 | |
|---|---|
| 02/07/2020 | |
| COCs | mg/Kg |
| ARSENIC | 1.9 |
| BARIUM | 186 |
| CHROMIUM | <0.500 |
| LEAD | 8.12 |
| SELENIUM | 6.66 |
| MERCURY | 0.0263 |

| 184-12 | |
|---|---|
| 02/07/2020 | |
| COCs | mg/Kg |
| ARSENIC | 4.88 |
| BARIUM | 206 |
| CHROMIUM | 0.325 |
| LEAD | 15.3 |
| SELENIUM | 9.99 |
| MERCURY | 0.0315 |

| 184-12A | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| ARSENIC | 5.87 |
| BARIUM | 155 |
| CHROMIUM | 0.141 |
| LEAD | 15.4 |
| SELENIUM | 8.68 |
| MERCURY | 0.017 |

| 184-14 | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| ARSENIC | 4.05 |
| BARIUM | 118 |
| CHROMIUM | 0.378 |
| LEAD | 16 |
| SELENIUM | 8.84 |
| MERCURY | 0.0177 |

| 184-14A | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| ARSENIC | 7.85 |
| BARIUM | 189 |
| CHROMIUM | <0.500 |
| LEAD | 14 |
| SELENIUM | 9.34 |
| MERCURY | 0.0274 |

| 184-14B | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| ARSENIC | 4.98 |
| BARIUM | 67.2 |
| CHROMIUM | 7.17 |
| LEAD | 6.51 |
| SELENIUM | <2.00 |
| MERCURY | <0.0300 |

| 184-14C | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| ARSENIC | 2.18 |
| BARIUM | 49.9 |
| CHROMIUM | <0.500 |
| LEAD | 12.6 |
| SELENIUM | 5.8 |
| MERCURY | 0.0246 |

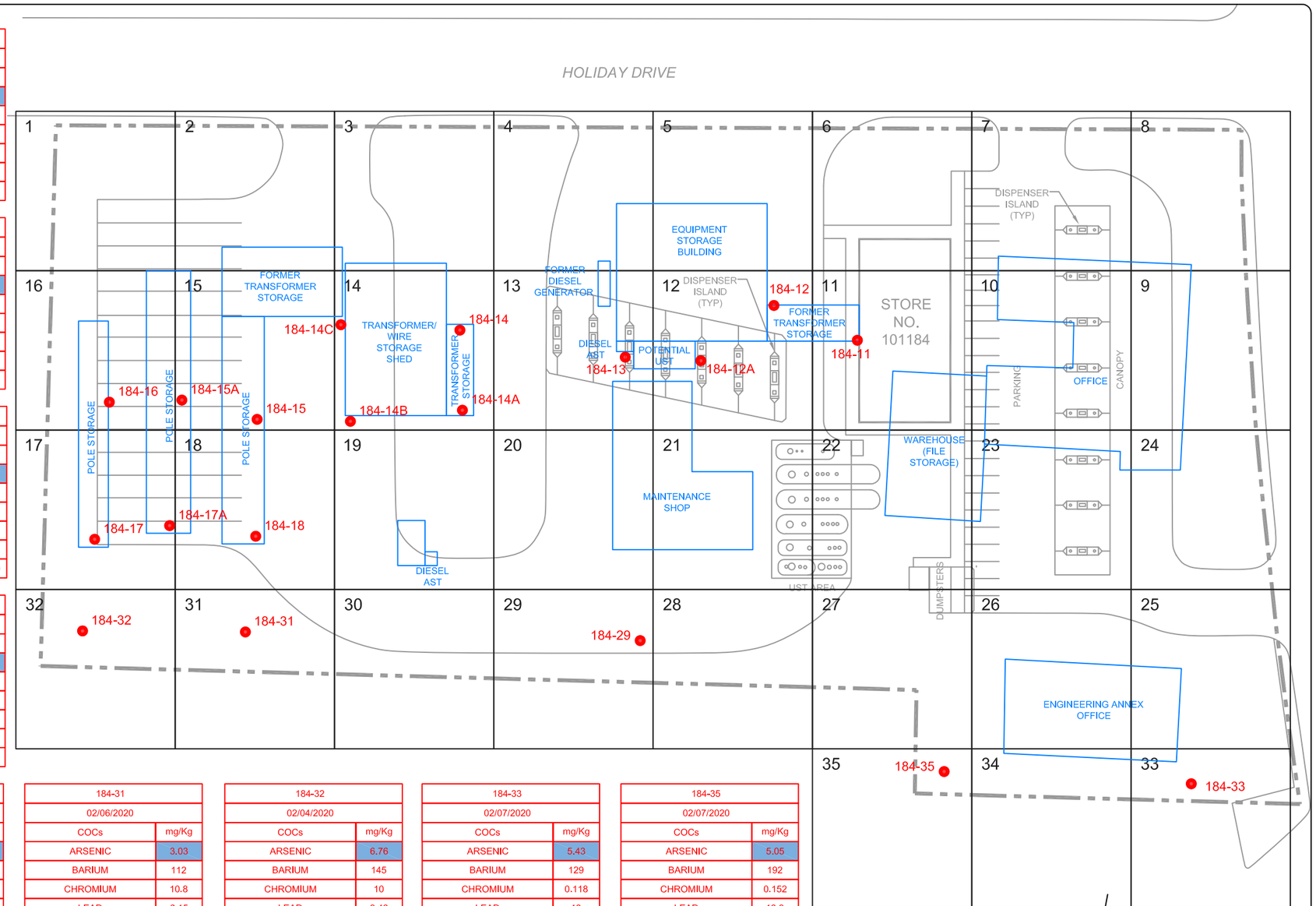
| 184-15 | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| ARSENIC | 4.48 |
| BARIUM | 108 |
| CHROMIUM | 10.5 |
| LEAD | 12.8 |
| SELENIUM | <2.00 |
| MERCURY | <0.0300 |

| 184-15A | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| ARSENIC | 5.65 |
| BARIUM | 99.3 |
| CHROMIUM | 10.2 |
| LEAD | 6.69 |
| SELENIUM | <2.00 |
| MERCURY | <0.0300 |

| 184-16 | |
|---|---|
| 02/04/2020 | |
| COCs | mg/Kg |
| ARSENIC | 7.41 |
| BARIUM | 153 |
| CHROMIUM | 12.2 |
| LEAD | 9.76 |
| SELENIUM | <2.00 |
| MERCURY | <0.0300 |

| 184-17 | |
|---|---|
| 02/04/2020 | |
| COCs | mg/Kg |
| ARSENIC | 9.95 |
| BARIUM | 281 |
| CHROMIUM | 11.9 |
| LEAD | 9.89 |
| SELENIUM | <2.00 |
| MERCURY | <0.0300 |

| 184-17A | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| ARSENIC | 5.95 |
| BARIUM | 107 |
| CHROMIUM | 11.9 |
| LEAD | 14.5 |
| SELENIUM | 2.78 |
| MERCURY | 0.0382 |




| 184-18 | |
|---|---|
| 02/04/2020 | |
| COCs | mg/Kg |
| ARSENIC | 7.09 |
| BARIUM | 165 |
| CHROMIUM | 10 |
| LEAD | 8.96 |
| SELENIUM | <2.00 |
| MERCURY | 0.0346 |

| 184-29 | |
|---|---|
| 02/04/2020 | |
| COCs | mg/Kg |
| ARSENIC | 6.43 |
| BARIUM | 175 |
| CHROMIUM | 0.328 |
| LEAD | 13.3 |
| SELENIUM | 9.06 |
| MERCURY | 0.0216 |

| 184-31 | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| ARSENIC | 3.03 |
| BARIUM | 112 |
| CHROMIUM | 10.8 |
| LEAD | 6.15 |
| SELENIUM | <2.00 |
| MERCURY | <0.0300 |

| 184-32 | |
|---|---|
| 02/04/2020 | |
| COCs | mg/Kg |
| ARSENIC | 6.76 |
| BARIUM | 145 |
| CHROMIUM | 10 |
| LEAD | 9.43 |
| SELENIUM | <2.00 |
| MERCURY | <0.0300 |

| 184-33 | |
|---|---|
| 02/07/2020 | |
| COCs | mg/Kg |
| ARSENIC | 5.43 |
| BARIUM | 129 |
| CHROMIUM | 0.118 |
| LEAD | 13 |
| SELENIUM | 8.52 |
| MERCURY | <0.0300 |

| 184-35 | |
|---|---|
| 02/07/2020 | |
| COCs | mg/Kg |
| ARSENIC | 5.05 |
| BARIUM | 192 |
| CHROMIUM | 0.152 |
| LEAD | 13.9 |
| SELENIUM | 7.38 |
| MERCURY | 0.0168 |

GRAPHIC SCALE
0 30 60
(IN FEET)
1 INCH ≈ 60 ft.

LEGEND:

- PROPERTY LINE
- BORING LOCATION
- TEMPORARY WELL LOCATION
- VALUES INDICATE SOIL COCS ABOVE EPA RSLS FOR RESIDENTIAL USAGE
- VALUES INDICATE SOIL COCS ABOVE EPA RSL FOR COMMERCIAL USAGE

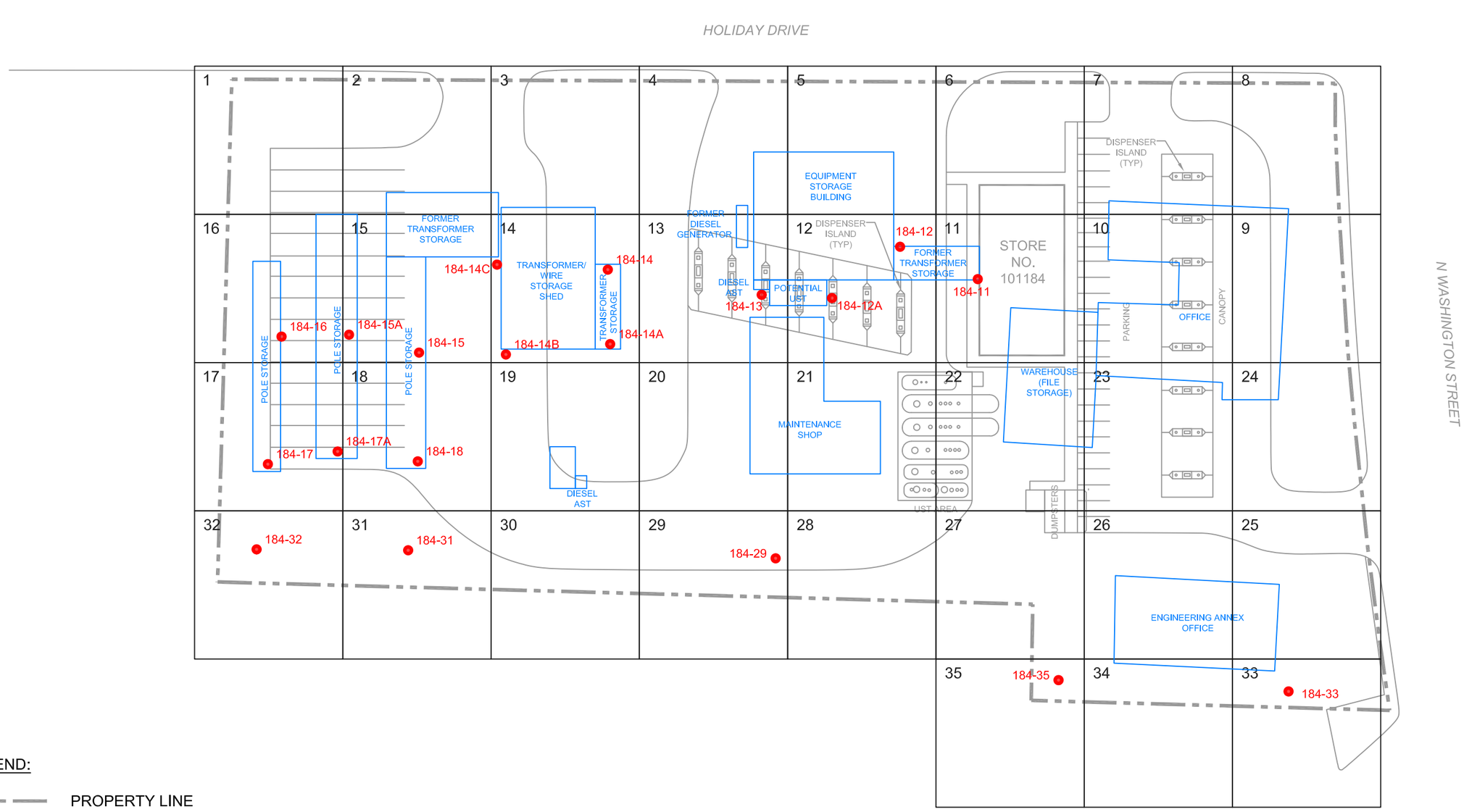
GRID CELL SPACING = 81 FEET

ATC

PROJECT:
PROPOSED SPEEDWAY STORE NO. 101184
NEC OF WASHINGTON STREET AND HOLIDAY DRIVE
FORREST CITY, ARKANSAS

TITLE:
RCRA METALS CONCENTRATIONS IN SOIL

| DRAWN BY: MKL | DATE: 02/19/20 | PROJECT NO.: . | SCALE: 1" ≈ 60' | PAGE/FIG. NO.: 5 |
|---|---|---|---|---|
| CHECKED BY: ML | DATE: | REPORT NO.: | | |




LEGEND:

PROPERTY LINE

BORING LOCATION

TEMPORARY WELL LOCATION

NOTE: LABORATORY ANALYTICAL REPORTED NO ADSORBED PCB CONCENTRATIONS ABOVE THE LABORATORY DETECTION LIMITS.

GRAPHIC SCALE
0 30 60
(IN FEET)
1 INCH ≈ 60 ft.

GRID CELL SPACING = 81 FEET

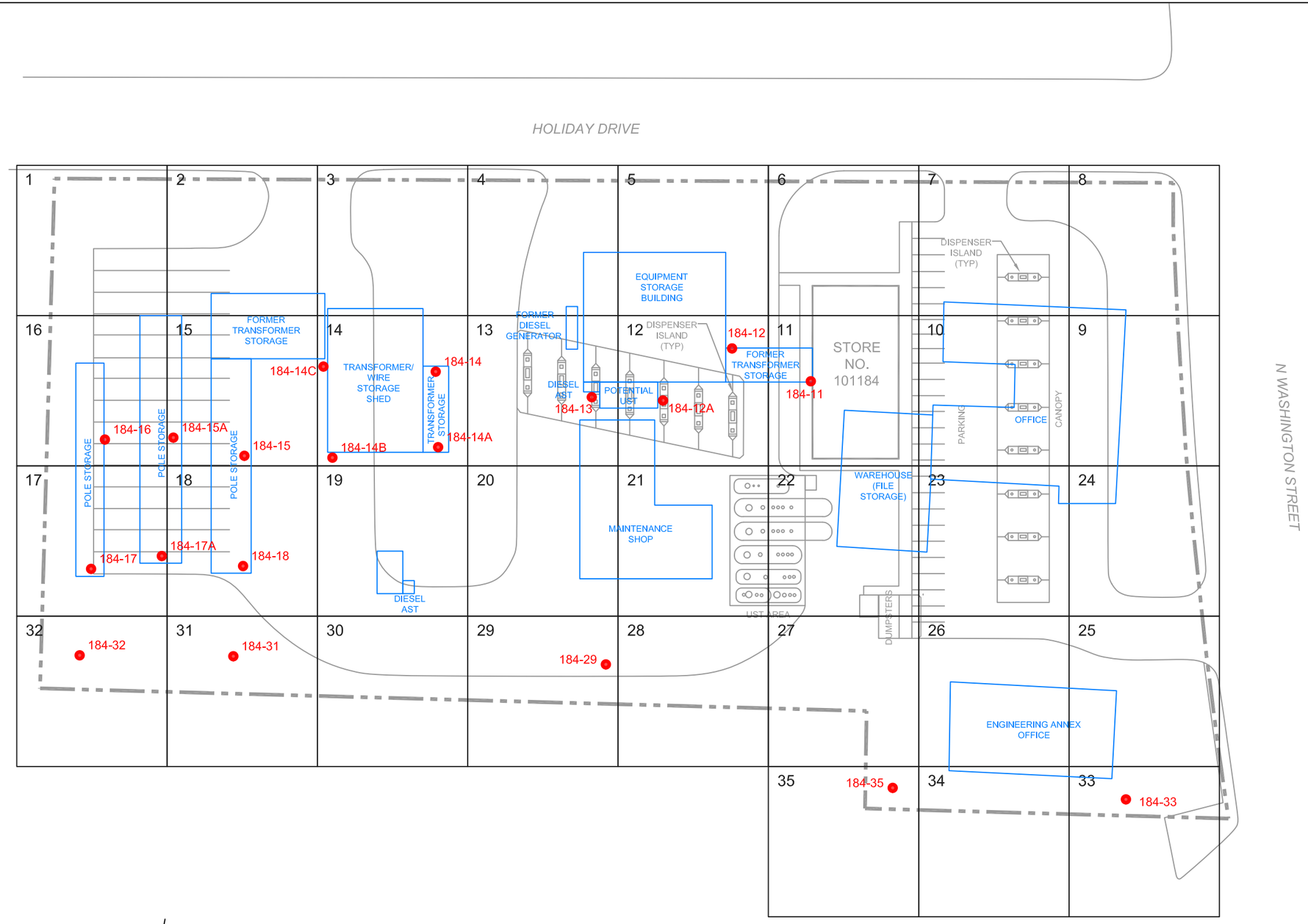
| | | | | | |
|---|---|---|---|---|---|
| ATC | PROJECT: PROPOSED SPEEDWAY STORE NO. 101184<br>NEC OF WASHINGTON STREET AND HOLIDAY DRIVE<br>FORREST CITY, ARKANSAS | | | TITLE: PCB CONCENTRATIONS IN SOIL | |
| | DRAWN BY: MKL | DATE: 02/19/20 | PROJECT NO.: . | SCALE: 1" ≈ 60' | PAGE/FIG. NO.: 6 |
| | CHECKED BY: ML | DATE: | REPORT NO.: | | |

| 184-12A | |
|---|---|
| 02/07/2020 | |
| COCs | mg/L |
| 1,2,3-TRIMETHYLBENZENE | <0.00100 |
| 1,2,4-TRIMETHYLBENZENE | <0.00100 |

| 184-14A | |
|---|---|
| 02/07/2020 | |
| COCs | mg/L |
| 1,2,3-TRIMETHYLBENZENE | 0.000502 |
| 1,2,4-TRIMETHYLBENZENE | 0.000447 |

| 184-18 | |
|---|---|
| 02/07/2020 | |
| COCs | mg/L |
| 1,2,3-TRIMETHYLBENZENE | <0.00100 |
| 1,2,4-TRIMETHYLBENZENE | <0.00100 |

| 184-35 | |
|---|---|
| 02/07/2020 | |
| COCs | mg/L |
| 1,2,3-TRIMETHYLBENZENE | <0.00100 |
| 1,2,4-TRIMETHYLBENZENE | <0.00100 |




LEGEND:

PROPERTY LINE

BORING LOCATION

TEMPORARY WELL LOCATION

VALUES INDICATE GROUNDWATER COCS ABOVE EPA TAPWATER CRITERIA

VALUES INDICATE GROUNDWATER COCS ABOVE THE EPA MCL

GRAPHIC SCALE
0 30 60
(IN FEET)
1 INCH ≈ 60 ft.

GRID CELL SPACING = 81 FEET

ATC

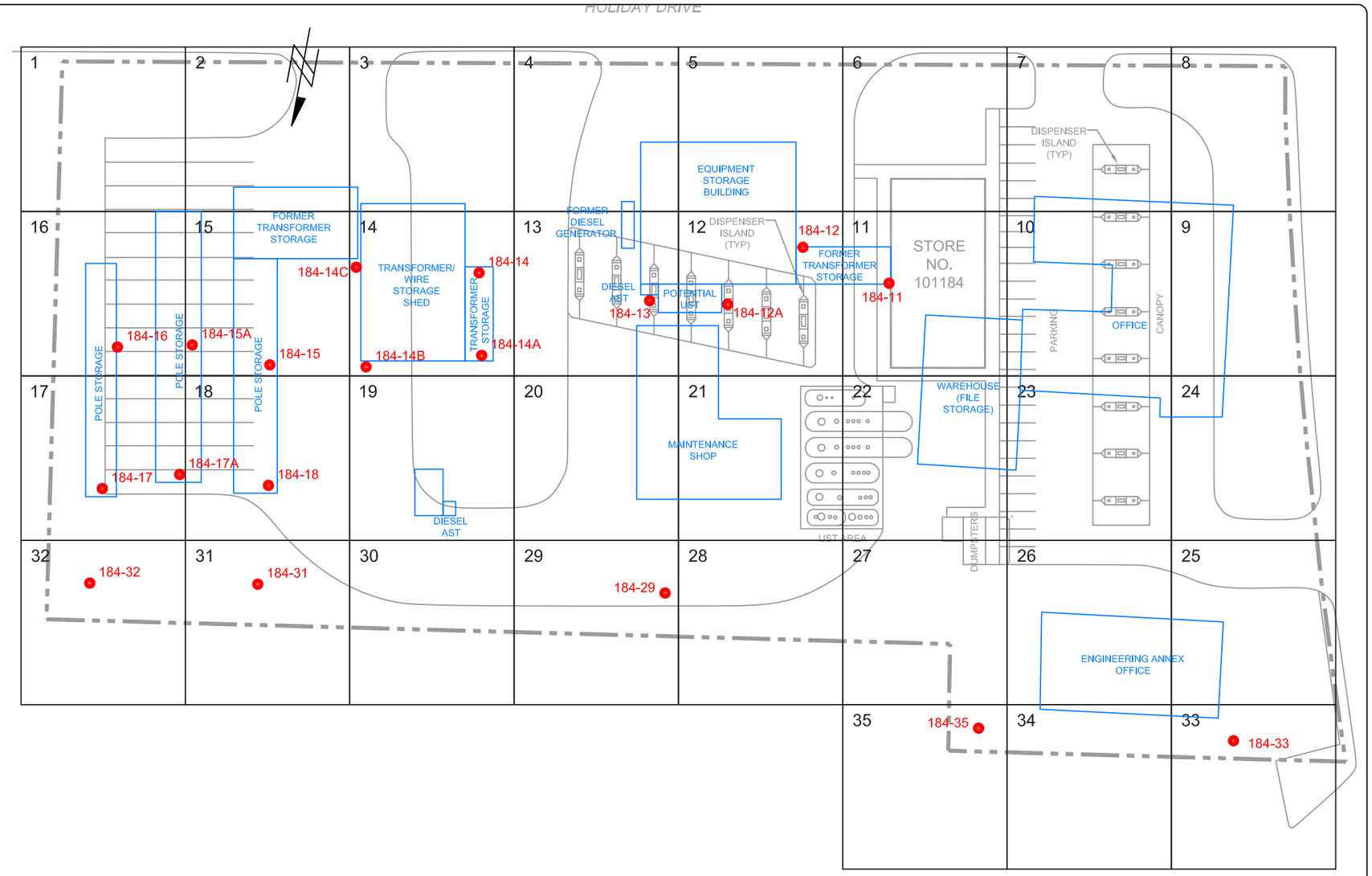
| PROJECT: | | | TITLE: | |
|---|---|---|---|---|
| PROPOSED SPEEDWAY STORE NO. 101184<br>NEC OF WASHINGTON STREET AND HOLIDAY DRIVE<br>FORREST CITY, ARKANSAS | | | VOC CONCENTRATIONS IN GROUNDWATER | |
| DRAWN BY: MKL | DATE: 02/19/20 | PROJECT NO.: . | SCALE: 1" ≈ 60' | PAGE/FIG. NO.: 7 |
| CHECKED BY: ML | DATE: | REPORT NO.: | | |

| 184-12A | |
|---|---|
| 02/06/2020 | |
| COCs | mg/L |
| ANTHRACENE | 0.0000221 |
| ACENAPHTHENE | 0.0000525 |
| BENZO(A)ANTHRACENE | 0.0000592 |
| BENZO(A)PYRENE | 0.0000793 |
| BENZO(B)FLUORANTHENE | 0.000132 |
| BENZO(G,H,I)PERYLENE | 0.000101 |
| BENZO(K)FLUORANTHENE | 0.0000493 |
| CHRYSENE | 0.0000869 |
| DIBENZ(A,H)ANTHRACENE | 0.0000192 |
| FLUORANTHENE | 0.000281 |
| FLUORENE | 0.0000415 |
| INDENO(1,2,3-CD)PYRENE | 0.0000788 |
| NAPHTHALENE | <0.000250 |
| PHENANTHRENE | 0.000324 |
| PYRENE | 0.000192 |
| 1-METHYLNAPHTHALENE | 0.000013 |
| 2-METHYLNAPHTHALENE | 0.0000147 |

| 184-14A | |
|---|---|
| 02/06/2020 | |
| COCs | mg/L |
| ANTHRACENE | 0.0000565 |
| ACENAPHTHENE | 0.000232 |
| BENZO(A)ANTHRACENE | 0.000137 |
| BENZO(A)PYRENE | 0.000171 |
| BENZO(B)FLUORANTHENE | 0.000285 |
| BENZO(G,H,I)PERYLENE | 0.000171 |
| BENZO(K)FLUORANTHENE | 0.000122 |
| CHRYSENE | 0.000211 |
| DIBENZ(A,H)ANTHRACENE | 0.0000354 |
| FLUORANTHENE | 0.00077 |
| FLUORENE | 0.000148 |
| INDENO(1,2,3-CD)PYRENE | 0.000142 |
| NAPHTHALENE | 0.000477 |
| PHENANTHRENE | 0.00114 |
| PYRENE | 0.000548 |
| 1-METHYLNAPHTHALENE | 0.000474 |
| 2-METHYLNAPHTHALENE | 0.000438 |

| 184-18 | |
|---|---|
| 02/04/2020 | |
| COCs | mg/Kg |
| ANTHRACENE | 0.0000501 |
| ACENAPHTHENE | 0.000106 |
| BENZO(A)ANTHRACENE | <0.0000500 |
| BENZO(A)PYRENE | <0.0000500 |
| BENZO(B)FLUORANTHENE | 0.00000688 |
| BENZO(G,H,I)PERYLENE | 0.00000595 |
| BENZO(K)FLUORANTHENE | <0.0000500 |
| CHRYSENE | <0.0000500 |
| DIBENZ(A,H)ANTHRACENE | <0.0000500 |
| FLUORANTHENE | 0.0000825 |
| FLUORENE | 0.0000798 |
| INDENO(1,2,3-CD)PYRENE | <0.0000500 |
| NAPHTHALENE | 0.000126 |
| PHENANTHRENE | 0.000293 |
| PYRENE | 0.0000529 |
| 1-METHYLNAPHTHALENE | 0.000115 |
| 2-METHYLNAPHTHALENE | 0.000113 |

| 184-35 | |
|---|---|
| 02/07/2020 | |
| COCs | mg/L |
| ANTHRACENE | 0.0000147 |
| ACENAPHTHENE | 0.0000302 |
| BENZO(A)ANTHRACENE | <0.0000500 |
| BENZO(A)PYRENE | <0.0000500 |
| BENZO(B)FLUORANTHENE | 0.00000365 |
| BENZO(G,H,I)PERYLENE | 0.00000319 |
| BENZO(K)FLUORANTHENE | <0.0000500 |
| CHRYSENE | <0.0000500 |
| DIBENZ(A,H)ANTHRACENE | <0.0000500 |
| FLUORANTHENE | 0.0000669 |
| FLUORENE | 0.0000264 |
| INDENO(1,2,3-CD)PYRENE | <0.0000500 |
| NAPHTHALENE | 0.000202 |
| PHENANTHRENE | 0.000195 |
| PYRENE | 0.0000354 |
| 1-METHYLNAPHTHALENE | 0.000172 |
| 2-METHYLNAPHTHALENE | 0.000183 |




LEGEND:

PROPERTY LINE

BORING LOCATION

TEMPORARY WELL LOCATION

VALUES INDICATE GROUNDWATER COCS ABOVE EPA TAPWATER CRITERIA

VALUES INDICATE GROUNDWATER COCS ABOVE THE EPA MCL

GRAPHIC SCALE
0 30 60
(IN FEET)
1 INCH ≈ 60 ft.

GRID CELL SPACING = 81 FEET

ATC

PROJECT:
PROPOSED SPEEDWAY STORE NO. 101184
NEC OF WASHINGTON STREET AND HOLIDAY DRIVE
FORREST CITY, ARKANSAS

TITLE:
PAH CONCENTRATIONS IN GROUNDWATER

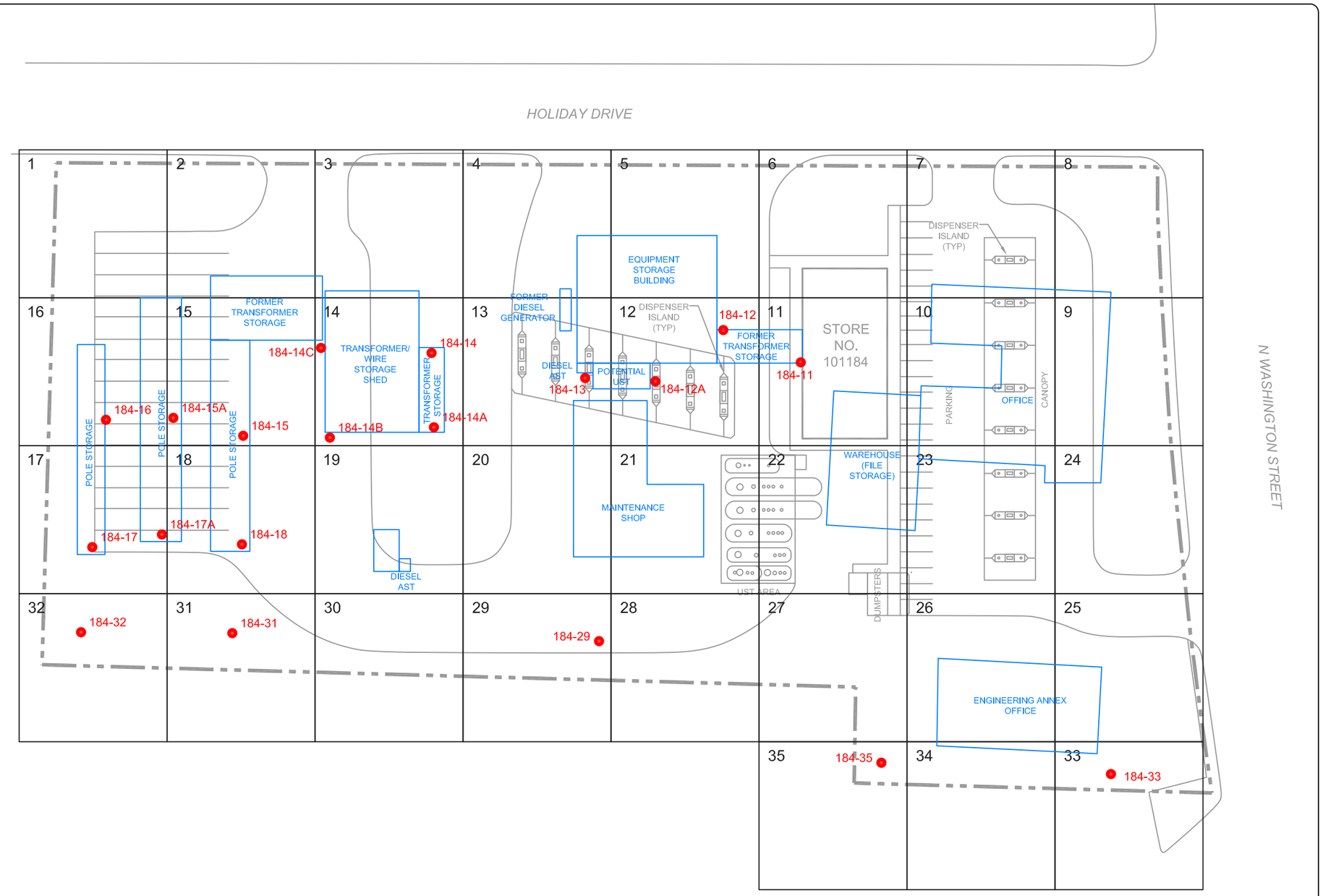
| DRAWN BY: MKL | DATE: 02/19/20 | PROJECT NO.: . | SCALE: 1" ≈ 60' | PAGE/FIG. NO.: 8 |
|---|---|---|---|---|
| CHECKED BY: ML | DATE: | REPORT NO.: | | |

| 184-12A | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| ARSENIC | 0.0104 |
| BARIUM | 0.273 |
| CADMIUM | 0.000978 |
| CHROMIUM | 0.0263 |
| LEAD | 0.0167 |

| 184-14A | |
|---|---|
| 02/06/2020 | |
| COCs | mg/Kg |
| ARSENIC | 0.957 |
| BARIUM | 19.9 |
| CADMIUM | 0.0298 |
| CHROMIUM | 2.15 |
| LEAD | 1.37 |

| 184-18 | |
|---|---|
| 02/04/2020 | |
| COCs | mg/Kg |
| ARSENIC | 0.0129 |
| BARIUM | 0.388 |
| CADMIUM | 0.00103 |
| CHROMIUM | 0.0351 |
| LEAD | 0.0184 |

| 184-35 | |
|---|---|
| 02/07/2020 | |
| COCs | mg/Kg |
| ARSENIC | 0.0398 |
| BARIUM | 1.85 |
| CADMIUM | 0.00224 |
| CHROMIUM | 0.208 |
| LEAD | 0.104 |




LEGEND:

- PROPERTY LINE
- BORING LOCATION
- TEMPORARY WELL LOCATION
- VALUES INDICATE GROUNDWATER COCS ABOVE EPA TAPWATER CRITERIA
- VALUES INDICATE GROUNDWATER COCS ABOVE THE EPA MCL

GRID CELL SPACING = 81 FEET

GRAPHIC SCALE
0 30 60
(IN FEET)
1 INCH ≈ 60 ft.

ATC

PROJECT:
PROPOSED SPEEDWAY STORE NO. 101184
NEC OF WASHINGTON STREET AND HOLIDAY DRIVE
FORREST CITY, ARKANSAS

TITLE:
RCRA METALS CONCENTRATIONS IN GROUNDWATER

| DRAWN BY: MKL | DATE: 02/19/20 | PROJECT NO.: . | SCALE: 1" ≈ 60' | PAGE/FIG. NO.: 9 |
|---|---|---|---|---|
| CHECKED BY: ML | DATE: | REPORT NO.: | | |

Proposed Speedway No. 101184

# TABLES

**Table 1 - Soil Analytical Results**
**NE Corner of Washington Street and Holiday Drive**
**Forrest City, Arkansas 72335**

| Client Sample ID | | | | | 184-11 | 184-12 | 184-12A | 184-14 | 184-14A | 184-14B 10-12 | 184-14C | 184-15 1-2 | 184-15A 10-12 | 184-16 2-4 | 184-17 6-8 | 184-17A 2-4 | 184-18 6-8 | 184-29 | 184-31 10-12 | 184-32 2-4 | 184-33 | 184-35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date Collected | | | | | 02/07/2020 | 02/07/2020 | 02/06/2020 | 02/06/2020 | 02/06/2020 | 02/04/2020 | 02/06/2020 | 02/04/2020 | 02/06/2020 | 02/04/2020 | 02/04/2020 | 02/06/2020 | 02/06/2020 | 02/07/2020 | 02/06/2020 | 02/04/2020 | 02/07/2020 | 02/07/2020 |
| Method | Analyte | Units | RSL Res SOIL Tr 1E-06 THQ 01 NOV19 | RSL Ind Soil TR 1E-06 THQ 01 NOV19 | Result | Result | Result | Result | Result | Result | Result | Result | Result | Result | Result | Result | Result | Result | Result | Result | Result | Result |
| 6010B | ARSENIC | mg/kg | 0.68 | 3 | 1.9 | 4.88 | 5.87 | 4.05 | 7.85 | 4.98 | 2.18 | 4.48 | 5.65 | 7.41 | 9.95 | 5.95 | 7.09 | 6.43 | 3.03 | 6.76 | 5.43 | 5.05 |
| 6010B | BARIUM | mg/kg | 1500 | 22000 | 186 | 206 | 155 | 118 | 189 | 67.2 | 49.9 | 108 | 99.3 | 153 | 281 | 107 | 165 | 175 | 112 | 145 | 129 | 192 |
| 6010B | CHROMIUM | mg/kg | | | <0.500 | 0.325 | 0.141 | 0.378 | <0.500 | 7.17 | <0.500 | 10.5 | 10.2 | 12.2 | 11.9 | 11.9 | 10 | 0.328 | 10.8 | 10 | 0.118 | 0.152 |
| 6010B | LEAD | mg/kg | 400 | 800 | 8.12 | 15.3 | 15.4 | 16 | 14 | 6.51 | 12.6 | 12.8 | 6.69 | 9.76 | 9.89 | 14.5 | 8.96 | 13.3 | 6.15 | 9.43 | 13 | 13.9 |
| 6010B | SELENIUM | mg/kg | 39 | 580 | 6.66 | 9.99 | 8.68 | 8.84 | 9.34 | <2.00 | 5.8 | <2.00 | <2.00 | <2.00 | <2.00 | 2.78 | <2.00 | 9.06 | <2.00 | <2.00 | 8.52 | 7.38 |
| 7471A | MERCURY | mg/kg | 1.1 | 4.6 | 0.0263 | 0.0315 | 0.017 | 0.0177 | 0.0274 | <0.0300 | 0.0246 | <0.0300 | <0.0300 | <0.0300 | <0.0300 | 0.0382 | 0.0346 | 0.0216 | <0.0300 | <0.0300 | <0.0300 | 0.0168 |
| 8260B | 1,2,3-TRIMETHYLBENZENE | mg/kg | | | <0.00500 | <0.00500 | <0.00500 | <0.00500 | 0.00163 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | 0.00221 | <0.00500 |
| 8260B | 1,2,4-TRIMETHYLBENZENE | mg/kg | | | <0.00500 | <0.00500 | <0.00500 | <0.00500 | 0.00196 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | 0.002 | <0.00500 |
| 8260B | 1,3,5-TRIMETHYLBENZENE | mg/kg | | | <0.00500 | <0.00500 | <0.00500 | <0.00500 | 0.00137 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| 8260B | 2-BUTANONE (MEK) | mg/kg | 2700 | 19000 | 0.0344 | 0.0274 | 0.023 | 0.0233 | 0.0253 | 0.0265 | 0.0289 | <0.0250 | <0.0250 | 0.0412 | 0.034 | 0.0472 | <0.0250 | 0.045 | <0.0250 | 0.031 | 0.023 | 0.0243 |
| 8260B | CHLOROFORM | mg/kg | | | 0.000593 | <0.00250 | <0.00250 | 0.000866 | <0.00250 | <0.00250 | <0.00250 | <0.00250 | <0.00250 | <0.00250 | <0.00250 | <0.00250 | <0.00250 | <0.00250 | <0.00250 | <0.00250 | <0.00250 | <0.00250 |
| 8260B | NAPHTHALENE | mg/kg | 3.8 | 17 | <0.0125 | <0.0125 | <0.0125 | <0.0125 | <0.0125 | <0.0125 | <0.0125 | <0.0125 | <0.0125 | <0.0125 | <0.0125 | <0.0125 | <0.0125 | <0.0125 | <0.0125 | <0.0125 | <0.0125 | <0.0125 |
| 8270C-SIM | ANTHRACENE | mg/kg | 1800 | 23000 | 0.0299 | 0.0029 | <0.00600 | 0.00298 | <0.00600 | <0.00600 | <0.00600 | 0.051 | <0.00600 | 0.0296 | <0.00600 | 0.0336 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | 0.014 | <0.00600 |
| 8270C-SIM | ACENAPHTHENE | mg/kg | 360 | 4500 | 0.0408 | 0.00318 | <0.00600 | 0.00165 | 0.000647 | <0.00600 | <0.00600 | 0.0807 | <0.00600 | 0.0155 | <0.00600 | 0.0172 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | 0.0104 | <0.00600 |
| 8270C-SIM | ACENAPHTHYLENE | mg/kg | | | 0.000889 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | <0.00600 |
| 8270C-SIM | BENZO(A)ANTHRACENE | mg/kg | 1.1 | 21 | 0.189 | 0.0231 | <0.00600 | 0.0213 | 0.00345 | <0.00600 | <0.00600 | 0.0766 | <0.00600 | 0.205 | <0.00600 | 0.256 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | 0.0929 | <0.00600 |
| 8270C-SIM | BENZO(A)PYRENE | mg/kg | 0.11 | 2.1 | 0.192 | 0.0256 | <0.00600 | 0.0235 | 0.00391 | <0.00600 | <0.00600 | 0.0578 | <0.00600 | 0.199 | <0.00600 | 0.297 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | 0.0972 | <0.00600 |
| 8270C-SIM | BENZO(B)FLUORANTHENE | mg/kg | 1.1 | 21 | 0.317 | 0.039 | <0.00600 | 0.0424 | 0.0063 | <0.00600 | <0.00600 | 0.161 | <0.00600 | 0.325 | <0.00600 | 0.542 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | 0.164 | <0.00600 |
| 8270C-SIM | BENZO(G,H,I)PERYLENE | mg/kg | | | 0.146 | 0.0202 | <0.00600 | 0.0206 | 0.0036 | <0.00600 | <0.00600 | 0.0406 | <0.00600 | 0.159 | <0.00600 | 0.24 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | 0.0699 | <0.00600 |
| 8270C-SIM | BENZO(K)FLUORANTHENE | mg/kg | 11 | 210 | 0.0913 | 0.0147 | <0.00600 | 0.0107 | 0.00223 | <0.00600 | <0.00600 | 0.0362 | <0.00600 | 0.105 | <0.00600 | 0.12 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | 0.0483 | <0.00600 |
| 8270C-SIM | CHRYSENE | mg/kg | 110 | 2100 | 0.245 | 0.0287 | <0.00600 | 0.0285 | 0.00455 | <0.00600 | <0.00600 | 0.113 | <0.00600 | 0.248 | <0.00600 | 0.269 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | 0.117 | <0.00600 |
| 8270C-SIM | DIBENZ(A,H)ANTHRACENE | mg/kg | 0.11 | 2.1 | 0.0378 | 0.00489 | <0.00600 | 0.00472 | 0.000738 | <0.00600 | <0.00600 | 0.01 | <0.00600 | 0.0385 | <0.00600 | 0.0596 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | 0.0192 | <0.00600 |
| 8270C-SIM | FLUORANTHENE | mg/kg | 240 | 3000 | 0.657 | 0.0831 | <0.00600 | 0.0835 | 0.0135 | 0.00862 | <0.00600 | 0.594 | 0.00751 | 0.809 | <0.00600 | 0.774 | <0.00600 | <0.00600 | <0.00600 | 0.0139 | 0.291 | <0.00600 |
| 8270C-SIM | FLUORENE | mg/kg | 240 | 3000 | 0.0376 | 0.00337 | <0.00600 | 0.00162 | 0.000646 | <0.00600 | <0.00600 | 0.074 | <0.00600 | 0.0164 | <0.00600 | 0.0139 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | 0.0116 | <0.00600 |
| 8270C-SIM | INDENO(1,2,3-CD)PYRENE | mg/kg | 1.1 | 21 | 0.134 | 0.0174 | <0.00600 | 0.0178 | 0.00292 | <0.00600 | <0.00600 | 0.0347 | <0.00600 | 0.134 | <0.00600 | 0.202 | <0.00600 | <0.00600 | <0.00600 | <0.00600 | 0.0671 | <0.00600 |
| 8270C-SIM | NAPHTHALENE | mg/kg | 3.8 | 17 | 0.0123 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | 0.0757 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | 0.00514 | <0.0200 |
| 8270C-SIM | PHENANTHRENE | mg/kg | | | 0.607 | 0.0652 | <0.00600 | 0.046 | 0.0105 | <0.00600 | <0.00600 | 0.187 | <0.00600 | 0.464 | <0.00600 | 0.328 | <0.00600 | <0.00600 | <0.00600 | 0.00992 | 0.21 | <0.00600 |
| 8270C-SIM | PYRENE | mg/kg | 180 | 2300 | 0.602 | 0.0772 | <0.00600 | 0.0791 | 0.012 | 0.00649 | <0.00600 | 0.373 | <0.00600 | 0.564 | <0.00600 | 0.582 | <0.00600 | <0.00600 | <0.00600 | 0.00926 | 0.278 | <0.00600 |
| 8270C-SIM | 1-METHYLNAPHTHALENE | mg/kg | | | 0.00471 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | 0.00526 | <0.0200 |
| 8270C-SIM | 2-METHYLNAPHTHALENE | mg/kg | 24 | 300 | 0.00543 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | 0.0382 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | 0.00678 | <0.0200 |

**Table 2 - Soil Analytical Results - TCLP RCRA Metals**
**NE Corner of Washington Street and Holiday Drive**
**Forrest City, Arkansas 72335**

| **Client Sample ID** | | | | | **184-12A** |
|---|---|---|---|---|---|
| **Date Collected** | | | | | **02/06/2020** |
| **Method** | **Analyte** | **Units** | **RSL Res SOIL Tr 1E-06 THQ 01 NOV19** | **RSL Ind Soil TR 1E-06 THQ 01 NOV19** | **Result** |
| 6010B | ARSENIC | mg/l | 0.68 | 3 | <0.100 |
| 6010B | BARIUM | mg/l | 1500 | 22000 | 1.58 |
| 6010B | CADMIUM | mg/l | 7.1 | 98 | <0.100 |
| 6010B | CHROMIUM | mg/l | | | <0.100 |
| 6010B | LEAD | mg/l | 400 | 800 | <0.100 |

**Table 3 - Groundwater Analytical Results**
**NE Corner of Washington Street and Holiday Drive**
**Forrest City, Arkansas 72335**

| Client Sample ID | | | | | 184-12A | 184-18 | 184-14A | 184-35 |
|---|---|---|---|---|---|---|---|---|
| Date Collected | | | | | 02/07/2020 | 02/07/2020 | 02/07/2020 | 02/07/2020 |
| Method | Analyte | Units | RSL TapWater TR 1E-06 THQ 01 NOV19 | RSL MCL TR 1E-06 THQ 01 NOV19 | Result | Result | Result | Result |
| 6010B | ARSENIC | mg/l | 0.000052 | 0.01 | 0.0104 | 0.0129 | 0.957 | 0.0398 |
| 6010B | BARIUM | mg/l | 0.38 | 2 | 0.273 | 0.388 | 19.9 | 1.85 |
| 6010B | CADMIUM | mg/l | 0.00092 | 0.005 | 0.000978 | 0.00103 | 0.0298 | 0.00224 |
| 6010B | CHROMIUM | mg/l | | 0.1 | 0.0263 | 0.0351 | 2.15 | 0.208 |
| 6010B | LEAD | mg/l | 0.015 | 0.015 | 0.0167 | 0.0184 | 1.37 | 0.104 |
| 8260B | 1,2,3-TRIMETHYLBENZENE | mg/l | 0.0055 | | <0.00100 | <0.00100 | 0.000502 | <0.00100 |
| 8260B | 1,2,4-TRIMETHYLBENZENE | mg/l | 0.0056 | | <0.00100 | <0.00100 | 0.000447 | <0.00100 |
| 8270C-SIM | ANTHRACENE | mg/l | 0.18 | | 0.0000221 | 0.0000501 | 0.0000565 | 0.0000147 |
| 8270C-SIM | ACENAPHTHENE | mg/l | 0.053 | | 0.0000525 | 0.000106 | 0.000232 | 0.0000302 |
| 8270C-SIM | BENZO(A)ANTHRACENE | mg/l | 0.00003 | | 0.0000592 | <0.0000500 | 0.000137 | <0.0000500 |
| 8270C-SIM | BENZO(A)PYRENE | mg/l | 0.000025 | 0.0002 | 0.0000793 | <0.0000500 | 0.000171 | <0.0000500 |
| 8270C-SIM | BENZO(B)FLUORANTHENE | mg/l | 0.00025 | | 0.000132 | 0.00000688 | 0.000285 | 0.00000365 |
| 8270C-SIM | BENZO(G,H,I)PERYLENE | mg/l | | | 0.000101 | 0.00000595 | 0.000171 | 0.00000319 |
| 8270C-SIM | BENZO(K)FLUORANTHENE | mg/l | 0.0025 | | 0.0000493 | <0.0000500 | 0.000122 | <0.0000500 |
| 8270C-SIM | CHRYSENE | mg/l | 0.025 | | 0.0000869 | <0.0000500 | 0.000211 | <0.0000500 |
| 8270C-SIM | DIBENZ(A,H)ANTHRACENE | mg/l | 0.000025 | | 0.0000192 | <0.0000500 | 0.0000354 | <0.0000500 |
| 8270C-SIM | FLUORANTHENE | mg/l | 0.08 | | 0.000281 | 0.0000825 | 0.00077 | 0.0000669 |
| 8270C-SIM | FLUORENE | mg/l | 0.029 | | 0.0000415 | 0.0000798 | 0.000148 | 0.0000264 |
| 8270C-SIM | INDENO(1,2,3-CD)PYRENE | mg/l | 0.00025 | | 0.0000788 | <0.0000500 | 0.000142 | <0.0000500 |
| 8270C-SIM | NAPHTHALENE | mg/l | 0.00017 | | <0.000250 | 0.000126 | 0.000477 | 0.000202 |
| 8270C-SIM | PHENANTHRENE | mg/l | | | 0.000324 | 0.000293 | 0.00114 | 0.000195 |
| 8270C-SIM | PYRENE | mg/l | 0.012 | | 0.000192 | 0.0000529 | 0.000548 | 0.0000354 |
| 8270C-SIM | 1-METHYLNAPHTHALENE | mg/l | 0.0011 | | 0.000013 | 0.000115 | 0.000474 | 0.000172 |
| 8270C-SIM | 2-METHYLNAPHTHALENE | mg/l | 0.0036 | | 0.0000147 | 0.000113 | 0.000438 | 0.000183 |

Proposed Speedway No. 101184

# APPENDIX A
## BORING LOG/WELL RECORD

# RECORD OF SUBSURFACE EXPLORATION

| | | | |
|---|---|---|---|
| Project No.: Z029000833 | | Well/Boring #: 184-16 | Date Drilled: 2/4/2020 |
| Project | Speedway No. 101184 | Drilling Co.: McRay Drilling | Drilling Method: Direct Push |
| | 3190 N. Washington Street, Forrest City, AR | Driller Name: Ryan Hicks | Logged By: Keith Yarrow |

| DEPTH FEET | SOIL DESCRIPTION | SAMPLE NUMBER | SAMPLE TYPE | PID (ppm) | |
|---|---|---|---|---|---|
| 0 | Asphalt Surface (3") | | | | |
| | Lean Clay, Brown, Soft, Moist, Water infiltrating at 6" | 1-2' | HA-6' | 0 | |
| 2.5 | | 2-4' | | 0 | 2'-4' Submitted to the laboratory for analysis. |
| 5.0 | | 4-6' | | 0 | |
| 7.5 | | 6-8' | CS-2 | 0 | |
| | | 8-10' | CS-4' | 0 | |
| 10.0 | | 10-12' | | 0 | |
| 12.5 | Boring terminated at 12' BGS. | | | | |
| 15.0 | | | | | |
| 17.5 | | | | | |
| 20.0 | | | | | |
| 22.5 | | | | | |
| 25.0 | | | | | |
| 27.5 | | | | | |
| 30.0 | | | | | |
| 32.5 | | | | | |

ABBREVIATIONS AND SYMBOLS

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CS-4' - Continuous Sampler
HA - Hand Auger

■ Sample Submitted to Lab

WATER LEVEL:
▽ Initial Water Level
▼ Stabilized Water Level
● Water on Rods

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling
AR - Air Rotary Drilling

# RECORD OF SUBSURFACE EXPLORATION

| | | | |
|---|---|---|---|
| Project No.: Z029000833 | | Well/Boring #: 184-17 | Date Drilled: 2/4/2020 |
| Project | Speedway No. 101184 | Drilling Co.: McRay Drilling | Drilling Method: Direct Push |
| | 3190 N. Washington Street, Forrest City, AR | Driller Name: Ryan Hicks | Logged By: Keith Yarrow |

| DEPTH FEET | SOIL DESCRIPTION | SAMPLE NUMBER | SAMPLE TYPE | PID (ppm) | |
|---|---|---|---|---|---|
| 0 | Asphalt Surface (2")<br>Lean Clay, Gray, Soft, Sl. Moist | 1-2' | HA-6' | 0 | |
| 2.5 | | 2-4' | | 0 | |
| 5.0 | | 4-6' | | 0 | |
| 7.5 | | 6-8' | CS-2 | 0 | 6'-8' Submitted to the laboratory for analysis. |
| | Lean Clay, Gray & Brown, Firm, Sl. Most<br>Lean Clay, Brown, Saturated | 8-10' | CS-4' | NS | |
| 10.0 | | 10-12' | | | |
| 12.5 | Boring terminated at 12' BGS. | | | | |
| 15.0 | | | | | |
| 17.5 | | | | | |
| 20.0 | | | | | |
| 22.5 | | | | | |
| 25.0 | | | | | |
| 27.5 | | | | | |
| 30.0 | | | | | |
| 32.5 | | | | | |

ABBREVIATIONS AND SYMBOLS

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CS-4' - Continuous Sampler
HA - Hand Auger

■ Sample Submitted to Lab

WATER LEVEL:
▽ Initial Water Level
▼ Stabilized Water Level
● Water on Rods

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling
AR - Air Rotary Drilling

# RECORD OF SUBSURFACE EXPLORATION

| | | | |
|---|---|---|---|
| Project No.: Z029000833 | | Well/Boring #: 184-32 | Date Drilled: 2/4/2020 |
| Project | Speedway No. 101184 | Drilling Co.: McRay Drilling | Drilling Method: Direct Push |
| | 3190 N. Washington Street, Forrest City, AR | Driller Name: Ryan Hicks | Logged By: Keith Yarrow |

| DEPTH FEET | SOIL DESCRIPTION | SAMPLE NUMBER | SAMPLE TYPE | PID (ppm) | |
|---|---|---|---|---|---|
| 0 | Asphalt Surface (2")<br>Lean Clay, Brown, Firm, Sl. Moist<br>Clayey Silt, Brown, Soft, dry<br>2" Sand & Gravel<br>Lean Clay, Brown, Firm | 1-2' | HA-4' | 0 | |
| 2.5 | | 2-4' | | 0 | 2'-4' Submitted to the laboratory for analysis. |
| 5.0 | Boring Terminated at 4' bgs.<br>Original location encountered an obstruction at 3 feet bgs. A utility was located along the edge of the GPR cleared area, therefore; the boring could not safely be moved. A hand auger boring was advanced at the end of the pole storage area where there was not enough clearance for the drill rig. | | | | |
| 7.5 | | | | | |
| 10.0 | | | | | |
| 12.5 | | | | | |
| 15.0 | | | | | |
| 17.5 | | | | | |
| 20.0 | | | | | |
| 22.5 | | | | | |
| 25.0 | | | | | |
| 27.5 | | | | | |
| 30.0 | | | | | |
| 32.5 | | | | | |

ABBREVIATIONS AND SYMBOLS

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CS-4' - Continuous Sampler
HA - Hand Auger

■ Sample Submitted to Lab

WATER LEVEL:
▽ Initial Water Level
▼ Stabilized Water Level
● Water on Rods

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling
AR - Air Rotary Drilling

# RECORD OF SUBSURFACE EXPLORATION

| | | | |
|---|---|---|---|
| Project No.: Z029000833 | | Well/Boring #: 184-14B | Date Drilled: 2/4/2020 |
| Project | Speedway No. 101184 | Drilling Co.: McRay Drilling | Drilling Method: Direct Push |
| | 3190 N. Washington Street, Forrest City, AR | Driller Name: Ryan Hicks | Logged By: Keith Yarrow |

| DEPTH FEET | SOIL DESCRIPTION | SAMPLE NUMBER | SAMPLE TYPE | PID (ppm) | |
|---|---|---|---|---|---|
| 0 | Asphalt Surface (2")<br>Broken Asphalt, Sand, Gravel<br>Brown Sand & Gravel, Water Infiltration | 1-2' | HA-6' | 0 | |
| 2.5 | Lean Clay, Brown & Gray, Soft, Moist | 2-4' | | 0 | |
| 5.0 | | 4-6' | | 0 | |
| 7.5 | Sandy Lean Clay, Brown | 6-8' | CS-2 | NS | Rain delay during hand augering filled hole with water. Sample from 6-8' bgs was too wet. |
| | Clayey Silt, Brown, Soft, Moist | 8-10' | CS-4' | 0 | |
| 10.0 | | 10-12' | | 0 | 10'-12' Submitted to the laboratory for analysis. |
| 12.5 | Boring terminated at 12' BGS. | | | | |
| 15.0 | | | | | |
| 17.5 | | | | | |
| 20.0 | | | | | |
| 22.5 | | | | | |
| 25.0 | | | | | |
| 27.5 | | | | | |
| 30.0 | | | | | |
| 32.5 | | | | | |

ABBREVIATIONS AND SYMBOLS

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CS-4' - Continuous Sampler
HA - Hand Auger

■ Sample Submitted to Lab

WATER LEVEL:
▽ Initial Water Level
▼ Stabilized Water Level
● Water on Rods

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling
AR - Air Rotary Drilling

# RECORD OF SUBSURFACE EXPLORATION

| | | | |
|---|---|---|---|
| Project No.: Z029000833 | | Well/Boring #: 184-15 | Date Drilled: 2/4/2020 and 2/6/2020 |
| Project | Speedway No. 101184 | Drilling Co.: McRay Drilling | Drilling Method: Direct Push |
| | 3190 N. Washington Street, Forrest City, AR | Driller Name: Ryan Hicks | Logged By: Keith Yarrow |

| DEPTH FEET | SOIL DESCRIPTION | SAMPLE NUMBER | SAMPLE TYPE | PID (ppm) | |
|---|---|---|---|---|---|
| 0 | Asphalt Surface (2")<br>Clay, Gray, Firm, Sl. Moist<br>Water Infiltrating | 1-2' | HA-6' | 0 | 1'-2' Submitted to the laboratory for analysis. |
| 2.5 | Gravel. | 2-4' | | 0 | Broken hand auger and rain delay.<br>Continued on 2/6/20 |
| 5.0 | Boring Terminated at 4' bgs.<br><br>Gravel encounterd at 4' bgs. The boring was moved 5' within the GPR cleared area and gravel was again encountered at 4'. Boring location was terminated due to inability to hand-auger through the gravel. | | | | |
| 7.5 | | | | | |
| 10.0 | | | | | |
| 12.5 | | | | | |
| 15.0 | | | | | |
| 17.5 | | | | | |
| 20.0 | | | | | |
| 22.5 | | | | | |
| 25.0 | | | | | |
| 27.5 | | | | | |
| 30.0 | | | | | |
| 32.5 | | | | | |

ABBREVIATIONS AND SYMBOLS

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CS-4' - Continuous Sampler
HA - Hand Auger

■ Sample Submitted to Lab

WATER LEVEL:
▽ Initial Water Level
▼ Stabilized Water Level
● Water on Rods

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling
AR - Air Rotary Drilling

# RECORD OF SUBSURFACE EXPLORATION

| | | | |
|---|---|---|---|
| Project No.: Z029000833 | | Well/Boring #: 184-14C | Date Drilled: 2/6/2020 |
| Project | Speedway No. 101184 | Drilling Co.: McRay Drilling | Drilling Method: Direct Push |
| | 3190 N. Washington Street, Forrest City, AR | Driller Name: Ryan Hicks | Logged By: Keith Yarrow |

| DEPTH FEET | SOIL DESCRIPTION | SAMPLE NUMBER | SAMPLE TYPE | PID (ppm) | |
|---|---|---|---|---|---|
| 0 | Asphalt Surface (2") | | | | |
| | Clayey Silt, Gray, Dry, Soft | 1-2' | HA-6' | 0 | |
| 2.5 | Lean Clay, Brown, Soft, Wet | 2-4' | | 0 | |
| 5.0 | | 4-6' | | 0 | |
| | | 6-8' | CS-2 | 0 | 6'-8' Submitted to the laboratory for analysis. |
| 7.5 | Clay, Brown & Tan, Plastic, Moist | | | | |
| | | 8-10' | CS-4' | 0 | |
| 10.0 | Coarse Sand, Tan, Wet | | | | |
| | Coarse Sand, Tan & Red, Wet | 10-12' | | 0 | |
| 12.5 | Boring terminated at 12' BGS. | | | | |
| 15.0 | | | | | |
| 17.5 | | | | | |
| 20.0 | | | | | |
| 22.5 | | | | | |
| 25.0 | | | | | |
| 27.5 | | | | | |
| 30.0 | | | | | |
| 32.5 | | | | | |

ABBREVIATIONS AND SYMBOLS

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CS-4' - Continuous Sampler
HA - Hand Auger

■ Sample Submitted to Lab

WATER LEVEL:
▽ Initial Water Level
▼ Stabilized Water Level
● Water on Rods

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling
AR - Air Rotary Drilling

# RECORD OF SUBSURFACE EXPLORATION

| | | | |
|---|---|---|---|
| Project No.: Z029000833 | | Well/Boring #: 184-15A | Date Drilled: 2/6/2020 |
| Project | Speedway No. 101184 | Drilling Co.: McRay Drilling | Drilling Method: Direct Push |
| | 3190 N. Washington Street, Forrest City, AR | Driller Name: Ryan Hicks | Logged By: Keith Yarrow |

| DEPTH FEET | SOIL DESCRIPTION | SAMPLE NUMBER | SAMPLE TYPE | PID (ppm) | |
|---|---|---|---|---|---|
| 0 | Asphalt Surface (2")<br>Lean Clay, Brown, Soft, Water Infiltrating | 1-2' | HA-6' | 0 | |
| 2.5 | | 2-4' | | 0 | |
| 5.0 | | 4-6' | | 0 | |
| 7.5 | | 6-8' | CS-2 | 0 | |
| | Lean Clay, Brown, Soft, Moist | 8-10' | CS-4' | 0 | |
| 10.0 | | 10-12' | | 0 | 10-12' Submitted to the laboratory for analysis. |
| 12.5 | Boring terminated at 12' BGS. | | | | |
| 15.0 | | | | | |
| 17.5 | | | | | |
| 20.0 | | | | | |
| 22.5 | | | | | |
| 25.0 | | | | | |
| 27.5 | | | | | |
| 30.0 | | | | | |
| 32.5 | | | | | |

ABBREVIATIONS AND SYMBOLS

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CS-4' - Continuous Sampler
HA - Hand Auger

■ Sample Submitted to Lab

WATER LEVEL:
▽ Initial Water Level
▼ Stabilized Water Level
● Water on Rods

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling
AR - Air Rotary Drilling

# RECORD OF SUBSURFACE EXPLORATION

| | | | |
|---|---|---|---|
| Project No.: Z029000833 | | Well/Boring #: 184-17A | Date Drilled: 2/6/2020 |
| Project | Speedway No. 101184 | Drilling Co.: McRay Drilling | Drilling Method: Direct Push |
| | 3190 N. Washington Street, Forrest City, AR | Driller Name: Ryan Hicks | Logged By: Keith Yarrow |

| DEPTH FEET | SOIL DESCRIPTION | SAMPLE NUMBER | SAMPLE TYPE | PID (ppm) | |
|---|---|---|---|---|---|
| 0 | Asphalt Surface (2")<br>Lean Clay, Gray, Firm, Sl. Moist | 1-2' | HA-6' | 0 | 2-4' Submitted to the laboratory for analysis. |
| 2.5 | | 2-4' | | 0 | |
| 5.0 | Lean Clay, Gray, Soft, Very Moist<br>2" Wood Fragments | 4-6' | | 0 | |
| 7.5 | | 6-8' | CS-2 | 0 | |
| | Lean Clay, Brown, Soft, Moist | 8-10' | CS-4' | 0 | |
| 10.0 | | 10-12' | | 0 | |
| 12.5 | Boring terminated at 12' BGS. | | | | |
| 15.0 | | | | | |
| 17.5 | | | | | |
| 20.0 | | | | | |
| 22.5 | | | | | |
| 25.0 | | | | | |
| 27.5 | | | | | |
| 30.0 | | | | | |
| 32.5 | | | | | |

ABBREVIATIONS AND SYMBOLS

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CS-4' - Continuous Sampler
HA - Hand Auger

■ Sample Submitted to Lab

WATER LEVEL:
▽ Initial Water Level
▼ Stabilized Water Level
● Water on Rods

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling
AR - Air Rotary Drilling

# RECORD OF SUBSURFACE EXPLORATION

| | | | |
|---|---|---|---|
| Project No.: Z029000833 | | Well/Boring #: 184-18 | Date Drilled: 2/6/2020 |
| Project | Speedway No. 101184 | Drilling Co.: McRay Drilling | Drilling Method: Direct Push |
| | 3190 N. Washington Street, Forrest City, AR | Driller Name: Ryan Hicks | Logged By: Keith Yarrow |

| DEPTH FEET | SOIL DESCRIPTION | SAMPLE NUMBER | SAMPLE TYPE | PID (ppm) | |
|---|---|---|---|---|---|
| 0 | Asphalt Surface (2") | | | | |
| | Lean Clay, Gray, Firm, Sl. Moist | 1-2' | HA-6' | 0 | |
| 2.5 | Lean Clay, Brown, Firm, Sl. Moist | 2-4' | | 0 | |
| | Lean Clay, Brown & Gray, Firm, Sl. Moist | 4-6' | | 0 | |
| 5.0 | Lean Clay, Brown & Tan, Soft, Sl. Moist | | | | |
| | | 6-8' | CS-2 | NS | 6'-8' Submitted to the laboratory for analysis. |
| 7.5 | | | | | |
| | Lean Clay, Brown & Tan, Soft, Saturated | 8-10' | CS-4' | 0 | |
| 10.0 | | 10-12' | | 0 | |
| 12.5 | | 12-14' | CS-4' | 0 | |
| 15.0 | | 14-16' | | 0 | |
| | Boring terminated at 16' BGS. Set temporary well for collection of water sample. | | | | |
| 17.5 | | | | | |
| 20.0 | | | | | |
| 22.5 | | | | | |
| 25.0 | | | | | |
| 27.5 | | | | | |
| 30.0 | | | | | |
| 32.5 | | | | | |

ABBREVIATIONS AND SYMBOLS

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CS-4' - Continuous Sampler
HA - Hand Auger

■ Sample Submitted to Lab

WATER LEVEL:
▽ Initial Water Level
▼ Stabilized Water Level
● Water on Rods

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling
AR - Air Rotary Drilling

# RECORD OF SUBSURFACE EXPLORATION

| | | | |
|---|---|---|---|
| Project No.: Z029000833 | | Well/Boring #: 184-31 | Date Drilled: 2/6/2020 |
| Project | Speedway No. 101184 | Drilling Co.: McRay Drilling | Drilling Method: Direct Push |
| | 3190 N. Washington Street, Forrest City, AR | Driller Name: Ryan Hicks | Logged By: Keith Yarrow |

| DEPTH FEET | SOIL DESCRIPTION | SAMPLE NUMBER | SAMPLE TYPE | PID (ppm) | |
|---|---|---|---|---|---|
| 0 | Leaves/Organic Silt/Sand<br>Silt, Tan, Dry, Soft | 1-2' | HA-6' | 0 | |
| 2.5 | | 2-4' | | 0 | |
| | Silt, Light Gray, Dry, Soft | | | | |
| 5.0 | | 4-6' | | 0 | |
| | | 6-8' | CS-2 | 0 | |
| 7.5 | Lean Clay, Brown, Soft, Moist | | | | |
| | | 8-10' | CS-4' | 0 | |
| 10.0 | | 10-12' | | 0 | 10'-12' Submitted to the laboratory for analysis. |
| 12.5 | Boring terminated at 12' BGS. | | | | |
| 15.0 | | | | | |
| 17.5 | | | | | |
| 20.0 | | | | | |
| 22.5 | | | | | |
| 25.0 | | | | | |
| 27.5 | | | | | |
| 30.0 | | | | | |
| 32.5 | | | | | |

ABBREVIATIONS AND SYMBOLS

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CS-4' - Continuous Sampler
HA - Hand Auger

■ Sample Submitted to Lab

WATER LEVEL:
▽ Initial Water Level
▼ Stabilized Water Level
● Water on Rods

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling
AR - Air Rotary Drilling

# RECORD OF SUBSURFACE EXPLORATION

| | | | |
|---|---|---|---|
| Project No.: Z029000833 | | Well/Boring #: 184-14A | Date Drilled: 2/6/2020 |
| Project | Speedway No. 101184 | Drilling Co.: McRay Drilling | Drilling Method: Direct Push |
| | 3190 N. Washington Street, Forrest City, AR | Driller Name: Ryan Hicks | Logged By: Keith Yarrow |

| DEPTH FEET | SOIL DESCRIPTION | SAMPLE NUMBER | SAMPLE TYPE | PID (ppm) | |
|---|---|---|---|---|---|
| 0 | Asphalt(18")<br>Lean Clay, Tan & Brown, Soft | | | | |
| | | 1-3' | HA-6' | 0 | 1'-3' Submitted to the laboratory for analysis. |
| 2.5 | Saturated | | | | |
| | | 3-6' | | 3-6' | |
| 5.0 | | | | | |
| | | 6-8' | CS-2 | NS | |
| 7.5 | Lean Clay, Brown, Soft, Wet | | | | |
| | | 8-10' | CS-4' | 0 | |
| 10.0 | | | | | |
| | | 10-12' | | 0 | |
| | Lean Clay, Tan, Soft, Very Moist | | | | |
| 12.5 | Boring terminated at 12' BGS.<br>Temporary well installed for collection of a water sample | | | | |
| 15.0 | | | | | |
| 17.5 | | | | | |
| 20.0 | | | | | |
| 22.5 | | | | | |
| 25.0 | | | | | |
| 27.5 | | | | | |
| 30.0 | | | | | |
| 32.5 | | | | | |

ABBREVIATIONS AND SYMBOLS

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CS-4' - Continuous Sampler
HA - Hand Auger

■ Sample Submitted to Lab

WATER LEVEL:
▽ Initial Water Level
▼ Stabilized Water Level
● Water on Rods

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling
AR - Air Rotary Drilling

# RECORD OF SUBSURFACE EXPLORATION

| | | | |
|---|---|---|---|
| Project No.: Z029000833 | | Well/Boring #: 184-14 | Date Drilled: 2/6/2020 |
| Project | Speedway No. 101184 | Drilling Co.: McRay Drilling | Drilling Method: Direct Push |
| | 3190 N. Washington Street, Forrest City, AR | Driller Name: Ryan Hicks | Logged By: Keith Yarrow |

| DEPTH FEET | SOIL DESCRIPTION | SAMPLE NUMBER | SAMPLE TYPE | PID (ppm) | |
|---|---|---|---|---|---|
| 0 | Asphalt(18")<br>Lean Clay, Brown, Soft, Moist | | | | |
| | | 1-3' | HA-6' | 0 | 1'-3' Submitted to the laboratory for analysis. |
| 2.5 | Saturated | | | | |
| | | 3-6' | | 3-6' | |
| 5.0 | | | | | |
| | | 6-8' | CS-2 | NS | |
| 7.5 | Lean Clay, Brown, Soft, Very Moist | | | | |
| | | 8-10' | CS-4' | 0 | |
| 10.0 | | | | | |
| | | 10-12' | | 0 | |
| 12.5 | Boring terminated at 12' BGS.<br>Temporary well installed for collection of a water sample | | | | |
| 15.0 | | | | | |
| 17.5 | | | | | |
| 20.0 | | | | | |
| 22.5 | | | | | |
| 25.0 | | | | | |
| 27.5 | | | | | |
| 30.0 | | | | | |
| 32.5 | | | | | |

ABBREVIATIONS AND SYMBOLS

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CS-4' - Continuous Sampler
HA - Hand Auger

■ Sample Submitted to Lab

WATER LEVEL:
▽ Initial Water Level
▼ Stabilized Water Level
● Water on Rods

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling
AR - Air Rotary Drilling

# RECORD OF SUBSURFACE EXPLORATION

| | | | |
|---|---|---|---|
| Project No.: Z029000833 | | Well/Boring #: 184-12A | Date Drilled: 2/6/2020 |
| Project | Speedway No. 101184 | Drilling Co.: McRay Drilling | Drilling Method: Direct Push |
| | 3190 N. Washington Street, Forrest City, AR | Driller Name: Ryan Hicks | Logged By: Keith Yarrow |

| DEPTH FEET | SOIL DESCRIPTION | SAMPLE NUMBER | SAMPLE TYPE | PID (ppm) | |
|---|---|---|---|---|---|
| 0 | Asphalt (3") | | | | |
| | Clay, Orange, Firm, Sl. Moist | 1-2' | | 0 | |
| 2.5 | | 2-4' | HA-6' | 0.6 | |
| 5.0 | | 4-6' | | 0.9 | |
| | Clay, Gray, Firm, Sl. Moist | 6-8' | CS-2 | 39.8 | 6'-8' Submitted to the laboratory for analysis. |
| 7.5 | Lean Clay, Gray & Brown, Soft, Saturated | 8-10' | | 0 | |
| 10.0 | | 10-12' | CS-4' | 0 | |
| 12.5 | Boring terminated at 12' BGS. Temporary well installed for collection of a water sample | | | | |
| 15.0 | | | | | |
| 17.5 | | | | | |
| 20.0 | | | | | |
| 22.5 | | | | | |
| 25.0 | | | | | |
| 27.5 | | | | | |
| 30.0 | | | | | |
| 32.5 | | | | | |

ABBREVIATIONS AND SYMBOLS

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CS-4' - Continuous Sampler
HA - Hand Auger

■ Sample Submitted to Lab

WATER LEVEL:
▽ Initial Water Level
▼ Stabilized Water Level
● Water on Rods

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling
AR - Air Rotary Drilling

# RECORD OF SUBSURFACE EXPLORATION

| | | | |
|---|---|---|---|
| Project No.: Z029000833 | | Well/Boring #: 184-11 | Date Drilled: 2/7/2020 |
| Project | Speedway No. 101184 | Drilling Co.: McRay Drilling | Drilling Method: Direct Push |
| | 3190 N. Washington Street, Forrest City, AR | Driller Name: Ryan Hicks | Logged By: Keith Yarrow |

| DEPTH FEET | SOIL DESCRIPTION | SAMPLE NUMBER | SAMPLE TYPE | PID (ppm) | |
|---|---|---|---|---|---|
| 0 | Asphalt (3")<br>Lean Clay, Dark Brown, Soft, Very Moist | 1-2' | HA-6' | 0 | 1'-2' Submitted to the laboratory for analysis. |
| 2.5 | Saturated | 2-4' | | 0 | |
| 5.0 | | 4-6' | | 0 | |
| 7.5 | Lean Clay, Brown, Firm, Very Moist | 6-8' | CS-2 | 0 | |
| | Lean Clay, Brown, Soft, Very Moist | 8-10' | CS-4' | 0 | |
| 10.0 | | 10-12' | | 0 | |
| 12.5 | Boring terminated at 12' BGS. | | | | |
| 15.0 | | | | | |
| 17.5 | | | | | |
| 20.0 | | | | | |
| 22.5 | | | | | |
| 25.0 | | | | | |
| 27.5 | | | | | |
| 30.0 | | | | | |
| 32.5 | | | | | |

ABBREVIATIONS AND SYMBOLS

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CS-4' - Continuous Sampler
HA - Hand Auger

■ Sample Submitted to Lab

WATER LEVEL:
▽ Initial Water Level
▼ Stabilized Water Level
● Water on Rods

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling
AR - Air Rotary Drilling

# RECORD OF SUBSURFACE EXPLORATION

| | | | |
|---|---|---|---|
| Project No.: Z029000833 | | Well/Boring #: 184-35 | Date Drilled: 2/7/2020 |
| Project | Speedway No. 101184 | Drilling Co.: McRay Drilling | Drilling Method: Direct Push |
| | 3190 N. Washington Street, Forrest City, AR | Driller Name: Ryan Hicks | Logged By: Keith Yarrow |

| DEPTH FEET | SOIL DESCRIPTION | SAMPLE NUMBER | SAMPLE TYPE | PID (ppm) | |
|---|---|---|---|---|---|
| 0 | Asphalt (3") | | | | |
| | Lean Clay, Gray, Soft, Very Moist | 1-2' | HA-6' | 0 | |
| 2.5 | | 2-4' | | 0 | |
| 5.0 | | 4-6' | | 0 | |
| | Lean Clay, Gray, Firm, Very Moist | 6-8' | CS-2 | 0 | 6'-8' Submitted to the laboratory for analysis. |
| 7.5 | Lean Clay, Gray & Brown, Soft, Saturated | 8-10' | CS-4' | 0 | |
| 10.0 | | 10-12' | | 0 | |
| 12.5 | Boring terminated at 12' BGS. Temporary well installed for collection of a water sample | | | | |
| 15.0 | | | | | |
| 17.5 | | | | | |
| 20.0 | | | | | |
| 22.5 | | | | | |
| 25.0 | | | | | |
| 27.5 | | | | | |
| 30.0 | | | | | |
| 32.5 | | | | | |

ABBREVIATIONS AND SYMBOLS

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CS-4' - Continuous Sampler
HA - Hand Auger

■ Sample Submitted to Lab

WATER LEVEL:
▽ Initial Water Level
▼ Stabilized Water Level
● Water on Rods

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling
AR - Air Rotary Drilling

# RECORD OF SUBSURFACE EXPLORATION

| | | | |
|---|---|---|---|
| Project No.: Z029000833 | | Well/Boring #: 184-33 | Date Drilled: 2/7/2020 |
| Project | Speedway No. 101184 | Drilling Co.: McRay Drilling | Drilling Method: Direct Push |
| | 3190 N. Washington Street, Forrest City, AR | Driller Name: Ryan Hicks | Logged By: Keith Yarrow |

| DEPTH FEET | SOIL DESCRIPTION | SAMPLE NUMBER | SAMPLE TYPE | PID (ppm) | |
|---|---|---|---|---|---|
| 0 | Asphalt (3")<br>Lean Clay, Gray, Soft, Sl. Moist | 1-2' | HA-6' | 0 | 4'-6' Submitted to the laboratory for analysis. |
| 2.5 | | 2-4' | | 0 | |
| 5.0 | | 4-6' | | 0 | |
| | Lean Clay, Gray, Soft, Saturated | 6-8' | CS-2 | 0 | |
| 7.5 | | 8-10' | CS-4' | 0 | |
| 10.0 | | 10-12' | | 0 | |
| 12.5 | Boring terminated at 12' BGS. | | | | |
| 15.0 | | | | | |
| 17.5 | | | | | |
| 20.0 | | | | | |
| 22.5 | | | | | |
| 25.0 | | | | | |
| 27.5 | | | | | |
| 30.0 | | | | | |
| 32.5 | | | | | |

ABBREVIATIONS AND SYMBOLS

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CS-4' - Continuous Sampler
HA - Hand Auger

■ Sample Submitted to Lab

WATER LEVEL:
▽ Initial Water Level
▼ Stabilized Water Level
● Water on Rods

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling
AR - Air Rotary Drilling

# RECORD OF SUBSURFACE EXPLORATION

| | | | |
|---|---|---|---|
| Project No.: Z029000833 | | Well/Boring #: 184-29 | Date Drilled: 2/7/2020 |
| Project | Speedway No. 101184 | Drilling Co.: McRay Drilling | Drilling Method: Direct Push |
| | 3190 N. Washington Street, Forrest City, AR | Driller Name: Ryan Hicks | Logged By: Keith Yarrow |

| DEPTH FEET | SOIL DESCRIPTION | SAMPLE NUMBER | SAMPLE TYPE | PID (ppm) | |
|---|---|---|---|---|---|
| 0 | Asphalt (3") | | | | |
| | Clayey Silt, Brown, Soft, Sl. Moist | 1-2' | | 0 | |
| 2.5 | | 2-4' | HA-6' | 0 | |
| | Lean Clay, Brown, Soft, Sl. Moist | | | | |
| 5.0 | | 4-6' | | 0 | |
| | Lean Clay, Brown, Soft, Very Moist | 6-8' | CS-2 | 0 | 6'-8' Submitted to the laboratory for analysis. |
| 7.5 | Saturated | | | | |
| | | 8-10' | | 0 | |
| 10.0 | | | CS-4' | | |
| | | 10-12' | | 0 | |
| 12.5 | Boring terminated at 12' BGS. | | | | |
| 15.0 | | | | | |
| 17.5 | | | | | |
| 20.0 | | | | | |
| 22.5 | | | | | |
| 25.0 | | | | | |
| 27.5 | | | | | |
| 30.0 | | | | | |
| 32.5 | | | | | |

ABBREVIATIONS AND SYMBOLS

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CS-4' - Continuous Sampler
HA - Hand Auger

■ Sample Submitted to Lab

WATER LEVEL:
▽ Initial Water Level
▼ Stabilized Water Level
● Water on Rods

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling
AR - Air Rotary Drilling

# RECORD OF SUBSURFACE EXPLORATION

| | | | |
|---|---|---|---|
| Project No.: Z029000833 | | Well/Boring #: 184-12 | Date Drilled: 2/7/2020 |
| Project | Speedway No. 101184 | Drilling Co.: McRay Drilling | Drilling Method: Direct Push |
| | 3190 N. Washington Street, Forrest City, AR | Driller Name: Ryan Hicks | Logged By: Keith Yarrow |

| DEPTH FEET | SOIL DESCRIPTION | SAMPLE NUMBER | SAMPLE TYPE | PID (ppm) | |
|---|---|---|---|---|---|
| 0 | Asphalt (3") | | | | |
| | Lean Clay, Gray, Soft, Sl. Moist | 1-2' | | 0 | |
| 2.5 | | 2-4' | HA-6' | 0 | |
| 5.0 | Lean Clay, Gray, Soft, Very Moist | 4-6' | | 0 | |
| 7.5 | | 6-8' | CS-2 | 0 | 6'-8' Submitted to the laboratory for analysis. |
| | Lean Clay, Brown, Saturated | 8-10' | | 0 | |
| 10.0 | | 10-12' | CS-4' | 0 | |
| 12.5 | Boring terminated at 12' BGS. | | | | |
| 15.0 | | | | | |
| 17.5 | | | | | |
| 20.0 | | | | | |
| 22.5 | | | | | |
| 25.0 | | | | | |
| 27.5 | | | | | |
| 30.0 | | | | | |
| 32.5 | | | | | |

ABBREVIATIONS AND SYMBOLS

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CS-4' - Continuous Sampler
HA - Hand Auger

■ Sample Submitted to Lab

WATER LEVEL:
▽ Initial Water Level
▼ Stabilized Water Level
● Water on Rods

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling
AR - Air Rotary Drilling

Proposed Speedway No. 101184

# APPENDIX B

## LABORATORY ANALYTICAL REPORT

# ANALYTICAL REPORT

February 28, 2020



## ATC Group Services - Speedway

| | |
|---|---|
| Sample Delivery Group: | L1187532 |
| Samples Received: | 02/08/2020 |
| Project Number: | Z029000833 |
| Description: | Proposed Speedway 101184 |
| Site: | 101184 |
| Report To: | Mr. Michael Lloyd<br>2690 Memorial Blvd., Ste. D<br>Murfreesboro, TN 37129 |

Entire Report Reviewed By:

T. Alan Harvill
Project Manager



# TABLE OF CONTENTS

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## 184-16 2-4 L1187532-01 Solid

Collected by: Keith Yarrow | Collected date/time: 02/04/20 09:30 | Received date/time: 02/08/20 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1426170 | 1 | 02/12/20 16:53 | 02/12/20 17:09 | KBC | Mt. Juliet, TN |
| Mercury by Method 7471A | WG1425892 | 1 | 02/11/20 12:36 | 02/11/20 20:39 | TCT | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1425657 | 1 | 02/11/20 12:03 | 02/11/20 15:52 | EL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1425504 | 1 | 02/04/20 09:30 | 02/10/20 21:02 | ADM | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG1426692 | 1 | 02/12/20 20:56 | 02/13/20 14:27 | SSH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1426291 | 1 | 02/12/20 10:08 | 02/13/20 11:58 | AAT | Mt. Juliet, TN |

## 184-17 6-8 L1187532-02 Solid

Collected by: Keith Yarrow | Collected date/time: 02/04/20 10:10 | Received date/time: 02/08/20 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1426170 | 1 | 02/12/20 16:53 | 02/12/20 17:09 | KBC | Mt. Juliet, TN |
| Mercury by Method 7471A | WG1425892 | 1 | 02/11/20 12:36 | 02/11/20 20:41 | TCT | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1425657 | 1 | 02/11/20 12:03 | 02/11/20 15:55 | EL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1425504 | 1 | 02/04/20 10:10 | 02/10/20 21:21 | ADM | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG1426692 | 1 | 02/12/20 20:56 | 02/13/20 15:22 | SSH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1426291 | 1 | 02/12/20 10:08 | 02/13/20 12:21 | AAT | Mt. Juliet, TN |

## 184-32 2-4 L1187532-03 Solid

Collected by: Keith Yarrow | Collected date/time: 02/04/20 10:40 | Received date/time: 02/08/20 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1426170 | 1 | 02/12/20 16:53 | 02/12/20 17:09 | KBC | Mt. Juliet, TN |
| Mercury by Method 7471A | WG1425892 | 1 | 02/11/20 12:36 | 02/11/20 20:44 | TCT | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1425657 | 1 | 02/11/20 12:03 | 02/11/20 16:03 | EL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1425504 | 1 | 02/04/20 10:40 | 02/10/20 21:40 | ADM | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG1426692 | 1 | 02/12/20 20:56 | 02/13/20 15:36 | SSH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1426291 | 1 | 02/12/20 10:08 | 02/13/20 12:44 | AAT | Mt. Juliet, TN |

## 184-14B 10-12 L1187532-04 Solid

Collected by: Keith Yarrow | Collected date/time: 02/04/20 13:04 | Received date/time: 02/08/20 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1426170 | 1 | 02/12/20 16:53 | 02/12/20 17:09 | KBC | Mt. Juliet, TN |
| Mercury by Method 7471A | WG1425892 | 1 | 02/11/20 12:36 | 02/11/20 20:46 | TCT | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1425657 | 1 | 02/11/20 12:03 | 02/11/20 15:36 | EL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1425504 | 1 | 02/04/20 13:04 | 02/10/20 21:59 | ADM | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG1426692 | 1 | 02/12/20 20:56 | 02/13/20 15:49 | SSH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1426291 | 1 | 02/12/20 10:08 | 02/13/20 13:07 | AAT | Mt. Juliet, TN |

## 184-15 1-2 L1187532-05 Solid

Collected by: Keith Yarrow | Collected date/time: 02/04/20 14:04 | Received date/time: 02/08/20 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1426171 | 1 | 02/12/20 22:44 | 02/12/20 22:52 | KBC | Mt. Juliet, TN |
| Mercury by Method 7471A | WG1425892 | 1 | 02/11/20 12:36 | 02/11/20 20:49 | TCT | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1425657 | 1 | 02/11/20 12:03 | 02/11/20 16:06 | EL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1425504 | 1 | 02/04/20 14:04 | 02/10/20 22:18 | ADM | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG1426692 | 1 | 02/12/20 20:56 | 02/13/20 16:03 | SSH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1426291 | 1 | 02/12/20 10:08 | 02/13/20 14:16 | AAT | Mt. Juliet, TN |

## 184-15A 10-12 L1187532-07 Solid

Collected by: Keith Yarrow | Collected date/time: 02/06/20 10:18 | Received date/time: 02/08/20 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1426171 | 1 | 02/12/20 22:44 | 02/12/20 22:52 | KBC | Mt. Juliet, TN |
| Mercury by Method 7471A | WG1425892 | 1 | 02/11/20 12:36 | 02/11/20 20:51 | TCT | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1425657 | 1 | 02/11/20 12:03 | 02/11/20 16:09 | EL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1425504 | 1 | 02/06/20 10:18 | 02/10/20 22:37 | ADM | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG1426692 | 1 | 02/12/20 20:56 | 02/13/20 16:17 | SSH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1426291 | 1 | 02/12/20 10:08 | 02/13/20 14:39 | AAT | Mt. Juliet, TN |

## 184-17A 2-4 L1187532-08 Solid

Collected by: Keith Yarrow | Collected date/time: 02/06/20 10:34 | Received date/time: 02/08/20 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1426171 | 1 | 02/12/20 22:44 | 02/12/20 22:52 | KBC | Mt. Juliet, TN |
| Mercury by Method 7471A | WG1425892 | 1 | 02/11/20 12:36 | 02/11/20 20:54 | TCT | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1425657 | 1 | 02/11/20 12:03 | 02/11/20 16:12 | EL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1425504 | 1 | 02/06/20 10:34 | 02/10/20 22:56 | ADM | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG1426692 | 1 | 02/12/20 20:56 | 02/13/20 17:12 | SSH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1426291 | 1 | 02/12/20 10:08 | 02/13/20 15:02 | AAT | Mt. Juliet, TN |

## 184-18 6-8 L1187532-09 Solid

Collected by: Keith Yarrow | Collected date/time: 02/06/20 12:10 | Received date/time: 02/08/20 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1426171 | 1 | 02/12/20 22:44 | 02/12/20 22:52 | KBC | Mt. Juliet, TN |
| Mercury by Method 7471A | WG1425892 | 1 | 02/11/20 12:36 | 02/11/20 20:56 | TCT | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1425657 | 1 | 02/11/20 12:03 | 02/11/20 16:15 | EL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1425504 | 1 | 02/06/20 12:10 | 02/10/20 23:15 | ADM | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG1426692 | 1 | 02/12/20 20:56 | 02/13/20 17:25 | SSH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1426291 | 1 | 02/12/20 10:08 | 02/13/20 15:25 | AAT | Mt. Juliet, TN |

## 184-31 10-12 L1187532-10 Solid

Collected by: Keith Yarrow | Collected date/time: 02/06/20 12:50 | Received date/time: 02/08/20 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1426171 | 1 | 02/12/20 22:44 | 02/12/20 22:52 | KBC | Mt. Juliet, TN |
| Mercury by Method 7471A | WG1425892 | 1 | 02/11/20 12:36 | 02/11/20 20:59 | TCT | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1425657 | 1 | 02/11/20 12:03 | 02/11/20 16:17 | EL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1425504 | 1 | 02/06/20 12:50 | 02/10/20 23:34 | ADM | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG1426692 | 1 | 02/12/20 20:56 | 02/13/20 17:39 | SSH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1426291 | 1 | 02/12/20 10:08 | 02/13/20 15:48 | LEA | Mt. Juliet, TN |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

T. Alan Harvill
Project Manager

## Total Solids by Method 2540 G-2011

| Analyte | Result % | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| Total Solids | 77.8 | | 1 | 02/12/2020 17:09 | WG1426170 |

## Mercury by Method 7471A

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0300 | 1 | 02/11/2020 20:39 | WG1425892 |

## Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Arsenic | 7.41 | | 2.00 | 1 | 02/11/2020 15:52 | WG1425657 |
| Barium | 153 | | 0.500 | 1 | 02/11/2020 15:52 | WG1425657 |
| Cadmium | ND | | 0.500 | 1 | 02/11/2020 15:52 | WG1425657 |
| Chromium | 12.2 | | 1.00 | 1 | 02/11/2020 15:52 | WG1425657 |
| Lead | 9.76 | | 0.500 | 1 | 02/11/2020 15:52 | WG1425657 |
| Selenium | ND | | 2.00 | 1 | 02/11/2020 15:52 | WG1425657 |
| Silver | ND | | 1.00 | 1 | 02/11/2020 15:52 | WG1425657 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | J4 | 0.00250 | 1 | 02/10/2020 21:02 | WG1425504 |
| 1,1,1-Trichloroethane | ND | | 0.00250 | 1 | 02/10/2020 21:02 | WG1425504 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/10/2020 21:02 | WG1425504 |
| 1,1,2-Trichloroethane | ND | | 0.00250 | 1 | 02/10/2020 21:02 | WG1425504 |
| 1,1,2-Trichlorotrifluoroethane | ND | | 0.00250 | 1 | 02/10/2020 21:02 | WG1425504 |
| 1,1-Dichloroethane | ND | | 0.00250 | 1 | 02/10/2020 21:02 | WG1425504 |
| 1,1-Dichloroethene | ND | | 0.00250 | 1 | 02/10/2020 21:02 | WG1425504 |
| 1,1-Dichloropropene | ND | | 0.00250 | 1 | 02/10/2020 21:02 | WG1425504 |
| 1,2,3-Trichlorobenzene | ND | | 0.0125 | 1 | 02/10/2020 21:02 | WG1425504 |
| 1,2,3-Trichloropropane | ND | | 0.0125 | 1 | 02/10/2020 21:02 | WG1425504 |
| 1,2,3-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 21:02 | WG1425504 |
| 1,2,4-Trichlorobenzene | ND | | 0.0125 | 1 | 02/10/2020 21:02 | WG1425504 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 21:02 | WG1425504 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0250 | 1 | 02/10/2020 21:02 | WG1425504 |
| 1,2-Dibromoethane | ND | | 0.00250 | 1 | 02/10/2020 21:02 | WG1425504 |
| 1,2-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 21:02 | WG1425504 |
| 1,2-Dichloroethane | ND | | 0.00250 | 1 | 02/10/2020 21:02 | WG1425504 |
| 1,2-Dichloropropane | ND | | 0.00500 | 1 | 02/10/2020 21:02 | WG1425504 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 21:02 | WG1425504 |
| 1,3-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 21:02 | WG1425504 |
| 1,3-Dichloropropane | ND | | 0.00500 | 1 | 02/10/2020 21:02 | WG1425504 |
| 1,4-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 21:02 | WG1425504 |
| 2,2-Dichloropropane | ND | | 0.00250 | 1 | 02/10/2020 21:02 | WG1425504 |
| 2-Butanone (MEK) | 0.0412 | B | 0.0250 | 1 | 02/10/2020 21:02 | WG1425504 |
| 2-Chlorotoluene | ND | | 0.00250 | 1 | 02/10/2020 21:02 | WG1425504 |
| 4-Chlorotoluene | ND | J4 | 0.00500 | 1 | 02/10/2020 21:02 | WG1425504 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0250 | 1 | 02/10/2020 21:02 | WG1425504 |
| Acetone | ND | | 0.0250 | 1 | 02/10/2020 21:02 | WG1425504 |
| Acrylonitrile | ND | | 0.0125 | 1 | 02/10/2020 21:02 | WG1425504 |
| Benzene | ND | | 0.00100 | 1 | 02/10/2020 21:02 | WG1425504 |
| Bromobenzene | ND | | 0.0125 | 1 | 02/10/2020 21:02 | WG1425504 |
| Bromodichloromethane | ND | | 0.00250 | 1 | 02/10/2020 21:02 | WG1425504 |
| Bromoform | ND | | 0.0250 | 1 | 02/10/2020 21:02 | WG1425504 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Bromomethane | ND | | 0.0125 | 1 | 02/10/2020 21:02 | WG1425504 |
| Carbon tetrachloride | ND | | 0.00500 | 1 | 02/10/2020 21:02 | WG1425504 |
| Chlorobenzene | ND | | 0.00250 | 1 | 02/10/2020 21:02 | WG1425504 |
| Chlorodibromomethane | ND | | 0.00250 | 1 | 02/10/2020 21:02 | WG1425504 |
| Chloroethane | ND | | 0.00500 | 1 | 02/10/2020 21:02 | WG1425504 |
| Chloroform | ND | | 0.00250 | 1 | 02/10/2020 21:02 | WG1425504 |
| Chloromethane | ND | | 0.0125 | 1 | 02/10/2020 21:02 | WG1425504 |
| Dibromomethane | ND | | 0.00500 | 1 | 02/10/2020 21:02 | WG1425504 |
| Dichlorodifluoromethane | ND | | 0.00250 | 1 | 02/10/2020 21:02 | WG1425504 |
| Di-isopropyl ether | ND | | 0.00100 | 1 | 02/10/2020 21:02 | WG1425504 |
| Ethylbenzene | ND | | 0.00250 | 1 | 02/10/2020 21:02 | WG1425504 |
| Hexachloro-1,3-butadiene | ND | | 0.0250 | 1 | 02/10/2020 21:02 | WG1425504 |
| Isopropylbenzene | ND | | 0.00250 | 1 | 02/10/2020 21:02 | WG1425504 |
| Methyl tert-butyl ether | ND | | 0.00100 | 1 | 02/10/2020 21:02 | WG1425504 |
| Methylene Chloride | ND | | 0.0250 | 1 | 02/10/2020 21:02 | WG1425504 |
| Naphthalene | ND | | 0.0125 | 1 | 02/10/2020 21:02 | WG1425504 |
| Styrene | ND | | 0.0125 | 1 | 02/10/2020 21:02 | WG1425504 |
| Tetrachloroethene | ND | | 0.00250 | 1 | 02/10/2020 21:02 | WG1425504 |
| Toluene | ND | | 0.00500 | 1 | 02/10/2020 21:02 | WG1425504 |
| Trichloroethene | ND | | 0.00100 | 1 | 02/10/2020 21:02 | WG1425504 |
| Trichlorofluoromethane | ND | | 0.00250 | 1 | 02/10/2020 21:02 | WG1425504 |
| Vinyl chloride | ND | | 0.00250 | 1 | 02/10/2020 21:02 | WG1425504 |
| Xylenes, Total | ND | | 0.00650 | 1 | 02/10/2020 21:02 | WG1425504 |
| cis-1,2-Dichloroethene | ND | | 0.00250 | 1 | 02/10/2020 21:02 | WG1425504 |
| trans-1,2-Dichloroethene | ND | | 0.00500 | 1 | 02/10/2020 21:02 | WG1425504 |
| n-Butylbenzene | ND | | 0.0125 | 1 | 02/10/2020 21:02 | WG1425504 |
| n-Propylbenzene | ND | | 0.00500 | 1 | 02/10/2020 21:02 | WG1425504 |
| p-Isopropyltoluene | ND | | 0.00500 | 1 | 02/10/2020 21:02 | WG1425504 |
| sec-Butylbenzene | ND | | 0.0125 | 1 | 02/10/2020 21:02 | WG1425504 |
| tert-Butylbenzene | ND | | 0.00500 | 1 | 02/10/2020 21:02 | WG1425504 |
| cis-1,3-Dichloropropene | ND | | 0.00250 | 1 | 02/10/2020 21:02 | WG1425504 |
| trans-1,3-Dichloropropene | ND | | 0.00500 | 1 | 02/10/2020 21:02 | WG1425504 |
| *(S) Toluene-d8* | *100* | | *75.0-131* | | *02/10/2020 21:02* | WG1425504 |
| *(S) 4-Bromofluorobenzene* | *87.8* | | *67.0-138* | | *02/10/2020 21:02* | WG1425504 |
| *(S) 1,2-Dichloroethane-d4* | *97.9* | | *70.0-130* | | *02/10/2020 21:02* | WG1425504 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| PCB 1016 | ND | | 0.0170 | 1 | 02/13/2020 14:27 | WG1426692 |
| PCB 1221 | ND | | 0.0170 | 1 | 02/13/2020 14:27 | WG1426692 |
| PCB 1232 | ND | | 0.0170 | 1 | 02/13/2020 14:27 | WG1426692 |
| PCB 1242 | ND | | 0.0170 | 1 | 02/13/2020 14:27 | WG1426692 |
| PCB 1248 | ND | | 0.0170 | 1 | 02/13/2020 14:27 | WG1426692 |
| PCB 1254 | ND | | 0.0170 | 1 | 02/13/2020 14:27 | WG1426692 |
| PCB 1260 | ND | | 0.0170 | 1 | 02/13/2020 14:27 | WG1426692 |
| *(S) Decachlorobiphenyl* | *106* | | *10.0-135* | | *02/13/2020 14:27* | WG1426692 |
| *(S) Tetrachloro-m-xylene* | *101* | | *10.0-139* | | *02/13/2020 14:27* | WG1426692 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Anthracene | 0.0296 | | 0.00600 | 1 | 02/13/2020 11:58 | WG1426291 |
| Acenaphthene | 0.0155 | | 0.00600 | 1 | 02/13/2020 11:58 | WG1426291 |
| Acenaphthylene | ND | | 0.00600 | 1 | 02/13/2020 11:58 | WG1426291 |
| Benzo(a)anthracene | 0.205 | | 0.00600 | 1 | 02/13/2020 11:58 | WG1426291 |
| Benzo(a)pyrene | 0.199 | | 0.00600 | 1 | 02/13/2020 11:58 | WG1426291 |
| Benzo(b)fluoranthene | 0.325 | | 0.00600 | 1 | 02/13/2020 11:58 | WG1426291 |
| Benzo(g,h,i)perylene | 0.159 | | 0.00600 | 1 | 02/13/2020 11:58 | WG1426291 |
| Benzo(k)fluoranthene | 0.105 | | 0.00600 | 1 | 02/13/2020 11:58 | WG1426291 |
| Chrysene | 0.248 | | 0.00600 | 1 | 02/13/2020 11:58 | WG1426291 |
| Dibenz(a,h)anthracene | 0.0385 | | 0.00600 | 1 | 02/13/2020 11:58 | WG1426291 |
| Fluoranthene | 0.809 | | 0.00600 | 1 | 02/13/2020 11:58 | WG1426291 |
| Fluorene | 0.0164 | | 0.00600 | 1 | 02/13/2020 11:58 | WG1426291 |
| Indeno(1,2,3-cd)pyrene | 0.134 | | 0.00600 | 1 | 02/13/2020 11:58 | WG1426291 |
| Naphthalene | ND | | 0.0200 | 1 | 02/13/2020 11:58 | WG1426291 |
| Phenanthrene | 0.464 | | 0.00600 | 1 | 02/13/2020 11:58 | WG1426291 |
| Pyrene | 0.564 | | 0.00600 | 1 | 02/13/2020 11:58 | WG1426291 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 11:58 | WG1426291 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 11:58 | WG1426291 |
| 2-Chloronaphthalene | ND | | 0.0200 | 1 | 02/13/2020 11:58 | WG1426291 |
| *(S) p-Terphenyl-d14* | *75.5* | | *23.0-120* | | *02/13/2020 11:58* | WG1426291 |
| *(S) Nitrobenzene-d5* | *96.7* | | *14.0-149* | | *02/13/2020 11:58* | WG1426291 |
| *(S) 2-Fluorobiphenyl* | *73.4* | | *34.0-125* | | *02/13/2020 11:58* | WG1426291 |

## Total Solids by Method 2540 G-2011

| Analyte | Result % | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| Total Solids | 77.7 | | 1 | 02/12/2020 17:09 | WG1426170 |

## Mercury by Method 7471A

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0300 | 1 | 02/11/2020 20:41 | WG1425892 |

## Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Arsenic | 9.95 | | 2.00 | 1 | 02/11/2020 15:55 | WG1425657 |
| Barium | 281 | | 0.500 | 1 | 02/11/2020 15:55 | WG1425657 |
| Cadmium | ND | | 0.500 | 1 | 02/11/2020 15:55 | WG1425657 |
| Chromium | 11.9 | | 1.00 | 1 | 02/11/2020 15:55 | WG1425657 |
| Lead | 9.89 | | 0.500 | 1 | 02/11/2020 15:55 | WG1425657 |
| Selenium | ND | | 2.00 | 1 | 02/11/2020 15:55 | WG1425657 |
| Silver | ND | | 1.00 | 1 | 02/11/2020 15:55 | WG1425657 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | J4 | 0.00250 | 1 | 02/10/2020 21:21 | WG1425504 |
| 1,1,1-Trichloroethane | ND | | 0.00250 | 1 | 02/10/2020 21:21 | WG1425504 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/10/2020 21:21 | WG1425504 |
| 1,1,2-Trichloroethane | ND | | 0.00250 | 1 | 02/10/2020 21:21 | WG1425504 |
| 1,1,2-Trichlorotrifluoroethane | ND | | 0.00250 | 1 | 02/10/2020 21:21 | WG1425504 |
| 1,1-Dichloroethane | ND | | 0.00250 | 1 | 02/10/2020 21:21 | WG1425504 |
| 1,1-Dichloroethene | ND | | 0.00250 | 1 | 02/10/2020 21:21 | WG1425504 |
| 1,1-Dichloropropene | ND | | 0.00250 | 1 | 02/10/2020 21:21 | WG1425504 |
| 1,2,3-Trichlorobenzene | ND | | 0.0125 | 1 | 02/10/2020 21:21 | WG1425504 |
| 1,2,3-Trichloropropane | ND | | 0.0125 | 1 | 02/10/2020 21:21 | WG1425504 |
| 1,2,3-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 21:21 | WG1425504 |
| 1,2,4-Trichlorobenzene | ND | | 0.0125 | 1 | 02/10/2020 21:21 | WG1425504 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 21:21 | WG1425504 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0250 | 1 | 02/10/2020 21:21 | WG1425504 |
| 1,2-Dibromoethane | ND | | 0.00250 | 1 | 02/10/2020 21:21 | WG1425504 |
| 1,2-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 21:21 | WG1425504 |
| 1,2-Dichloroethane | ND | | 0.00250 | 1 | 02/10/2020 21:21 | WG1425504 |
| 1,2-Dichloropropane | ND | | 0.00500 | 1 | 02/10/2020 21:21 | WG1425504 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 21:21 | WG1425504 |
| 1,3-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 21:21 | WG1425504 |
| 1,3-Dichloropropane | ND | | 0.00500 | 1 | 02/10/2020 21:21 | WG1425504 |
| 1,4-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 21:21 | WG1425504 |
| 2,2-Dichloropropane | ND | | 0.00250 | 1 | 02/10/2020 21:21 | WG1425504 |
| 2-Butanone (MEK) | 0.0340 | B | 0.0250 | 1 | 02/10/2020 21:21 | WG1425504 |
| 2-Chlorotoluene | ND | | 0.00250 | 1 | 02/10/2020 21:21 | WG1425504 |
| 4-Chlorotoluene | ND | J4 | 0.00500 | 1 | 02/10/2020 21:21 | WG1425504 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0250 | 1 | 02/10/2020 21:21 | WG1425504 |
| Acetone | ND | | 0.0250 | 1 | 02/10/2020 21:21 | WG1425504 |
| Acrylonitrile | ND | | 0.0125 | 1 | 02/10/2020 21:21 | WG1425504 |
| Benzene | ND | | 0.00100 | 1 | 02/10/2020 21:21 | WG1425504 |
| Bromobenzene | ND | | 0.0125 | 1 | 02/10/2020 21:21 | WG1425504 |
| Bromodichloromethane | ND | | 0.00250 | 1 | 02/10/2020 21:21 | WG1425504 |
| Bromoform | ND | | 0.0250 | 1 | 02/10/2020 21:21 | WG1425504 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Bromomethane | ND | | 0.0125 | 1 | 02/10/2020 21:21 | WG1425504 |
| Carbon tetrachloride | ND | | 0.00500 | 1 | 02/10/2020 21:21 | WG1425504 |
| Chlorobenzene | ND | | 0.00250 | 1 | 02/10/2020 21:21 | WG1425504 |
| Chlorodibromomethane | ND | | 0.00250 | 1 | 02/10/2020 21:21 | WG1425504 |
| Chloroethane | ND | | 0.00500 | 1 | 02/10/2020 21:21 | WG1425504 |
| Chloroform | ND | | 0.00250 | 1 | 02/10/2020 21:21 | WG1425504 |
| Chloromethane | ND | | 0.0125 | 1 | 02/10/2020 21:21 | WG1425504 |
| Dibromomethane | ND | | 0.00500 | 1 | 02/10/2020 21:21 | WG1425504 |
| Dichlorodifluoromethane | ND | | 0.00250 | 1 | 02/10/2020 21:21 | WG1425504 |
| Di-isopropyl ether | ND | | 0.00100 | 1 | 02/10/2020 21:21 | WG1425504 |
| Ethylbenzene | ND | | 0.00250 | 1 | 02/10/2020 21:21 | WG1425504 |
| Hexachloro-1,3-butadiene | ND | | 0.0250 | 1 | 02/10/2020 21:21 | WG1425504 |
| Isopropylbenzene | ND | | 0.00250 | 1 | 02/10/2020 21:21 | WG1425504 |
| Methyl tert-butyl ether | ND | | 0.00100 | 1 | 02/10/2020 21:21 | WG1425504 |
| Methylene Chloride | ND | | 0.0250 | 1 | 02/10/2020 21:21 | WG1425504 |
| Naphthalene | ND | | 0.0125 | 1 | 02/10/2020 21:21 | WG1425504 |
| Styrene | ND | | 0.0125 | 1 | 02/10/2020 21:21 | WG1425504 |
| Tetrachloroethene | ND | | 0.00250 | 1 | 02/10/2020 21:21 | WG1425504 |
| Toluene | ND | | 0.00500 | 1 | 02/10/2020 21:21 | WG1425504 |
| Trichloroethene | ND | | 0.00100 | 1 | 02/10/2020 21:21 | WG1425504 |
| Trichlorofluoromethane | ND | | 0.00250 | 1 | 02/10/2020 21:21 | WG1425504 |
| Vinyl chloride | ND | | 0.00250 | 1 | 02/10/2020 21:21 | WG1425504 |
| Xylenes, Total | ND | | 0.00650 | 1 | 02/10/2020 21:21 | WG1425504 |
| cis-1,2-Dichloroethene | ND | | 0.00250 | 1 | 02/10/2020 21:21 | WG1425504 |
| trans-1,2-Dichloroethene | ND | | 0.00500 | 1 | 02/10/2020 21:21 | WG1425504 |
| n-Butylbenzene | ND | | 0.0125 | 1 | 02/10/2020 21:21 | WG1425504 |
| n-Propylbenzene | ND | | 0.00500 | 1 | 02/10/2020 21:21 | WG1425504 |
| p-Isopropyltoluene | ND | | 0.00500 | 1 | 02/10/2020 21:21 | WG1425504 |
| sec-Butylbenzene | ND | | 0.0125 | 1 | 02/10/2020 21:21 | WG1425504 |
| tert-Butylbenzene | ND | | 0.00500 | 1 | 02/10/2020 21:21 | WG1425504 |
| cis-1,3-Dichloropropene | ND | | 0.00250 | 1 | 02/10/2020 21:21 | WG1425504 |
| trans-1,3-Dichloropropene | ND | | 0.00500 | 1 | 02/10/2020 21:21 | WG1425504 |
| *(S) Toluene-d8* | *99.2* | | *75.0-131* | | *02/10/2020 21:21* | WG1425504 |
| *(S) 4-Bromofluorobenzene* | *86.4* | | *67.0-138* | | *02/10/2020 21:21* | WG1425504 |
| *(S) 1,2-Dichloroethane-d4* | *102* | | *70.0-130* | | *02/10/2020 21:21* | WG1425504 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| PCB 1016 | ND | | 0.0170 | 1 | 02/13/2020 15:22 | WG1426692 |
| PCB 1221 | ND | | 0.0170 | 1 | 02/13/2020 15:22 | WG1426692 |
| PCB 1232 | ND | | 0.0170 | 1 | 02/13/2020 15:22 | WG1426692 |
| PCB 1242 | ND | | 0.0170 | 1 | 02/13/2020 15:22 | WG1426692 |
| PCB 1248 | ND | | 0.0170 | 1 | 02/13/2020 15:22 | WG1426692 |
| PCB 1254 | ND | | 0.0170 | 1 | 02/13/2020 15:22 | WG1426692 |
| PCB 1260 | ND | | 0.0170 | 1 | 02/13/2020 15:22 | WG1426692 |
| *(S) Decachlorobiphenyl* | *101* | | *10.0-135* | | *02/13/2020 15:22* | WG1426692 |
| *(S) Tetrachloro-m-xylene* | *99.4* | | *10.0-139* | | *02/13/2020 15:22* | WG1426692 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Anthracene | ND | | 0.00600 | 1 | 02/13/2020 12:21 | WG1426291 |
| Acenaphthene | ND | | 0.00600 | 1 | 02/13/2020 12:21 | WG1426291 |
| Acenaphthylene | ND | | 0.00600 | 1 | 02/13/2020 12:21 | WG1426291 |
| Benzo(a)anthracene | ND | | 0.00600 | 1 | 02/13/2020 12:21 | WG1426291 |
| Benzo(a)pyrene | ND | | 0.00600 | 1 | 02/13/2020 12:21 | WG1426291 |
| Benzo(b)fluoranthene | ND | | 0.00600 | 1 | 02/13/2020 12:21 | WG1426291 |
| Benzo(g,h,i)perylene | ND | | 0.00600 | 1 | 02/13/2020 12:21 | WG1426291 |
| Benzo(k)fluoranthene | ND | | 0.00600 | 1 | 02/13/2020 12:21 | WG1426291 |
| Chrysene | ND | | 0.00600 | 1 | 02/13/2020 12:21 | WG1426291 |
| Dibenz(a,h)anthracene | ND | | 0.00600 | 1 | 02/13/2020 12:21 | WG1426291 |
| Fluoranthene | ND | | 0.00600 | 1 | 02/13/2020 12:21 | WG1426291 |
| Fluorene | ND | | 0.00600 | 1 | 02/13/2020 12:21 | WG1426291 |
| Indeno(1,2,3-cd)pyrene | ND | | 0.00600 | 1 | 02/13/2020 12:21 | WG1426291 |
| Naphthalene | ND | | 0.0200 | 1 | 02/13/2020 12:21 | WG1426291 |
| Phenanthrene | ND | | 0.00600 | 1 | 02/13/2020 12:21 | WG1426291 |
| Pyrene | ND | | 0.00600 | 1 | 02/13/2020 12:21 | WG1426291 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 12:21 | WG1426291 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 12:21 | WG1426291 |
| 2-Chloronaphthalene | ND | | 0.0200 | 1 | 02/13/2020 12:21 | WG1426291 |
| *(S) p-Terphenyl-d14* | *69.9* | | *23.0-120* | | *02/13/2020 12:21* | WG1426291 |
| *(S) Nitrobenzene-d5* | *93.9* | | *14.0-149* | | *02/13/2020 12:21* | WG1426291 |
| *(S) 2-Fluorobiphenyl* | *72.7* | | *34.0-125* | | *02/13/2020 12:21* | WG1426291 |

## Total Solids by Method 2540 G-2011

| Analyte | Result % | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| Total Solids | 80.2 | | 1 | 02/12/2020 17:09 | WG1426170 |

## Mercury by Method 7471A

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0300 | 1 | 02/11/2020 20:44 | WG1425892 |

## Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Arsenic | 6.76 | | 2.00 | 1 | 02/11/2020 16:03 | WG1425657 |
| Barium | 145 | | 0.500 | 1 | 02/11/2020 16:03 | WG1425657 |
| Cadmium | ND | | 0.500 | 1 | 02/11/2020 16:03 | WG1425657 |
| Chromium | 10.0 | | 1.00 | 1 | 02/11/2020 16:03 | WG1425657 |
| Lead | 9.43 | | 0.500 | 1 | 02/11/2020 16:03 | WG1425657 |
| Selenium | ND | | 2.00 | 1 | 02/11/2020 16:03 | WG1425657 |
| Silver | ND | | 1.00 | 1 | 02/11/2020 16:03 | WG1425657 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | J4 | 0.00250 | 1 | 02/10/2020 21:40 | WG1425504 |
| 1,1,1-Trichloroethane | ND | | 0.00250 | 1 | 02/10/2020 21:40 | WG1425504 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/10/2020 21:40 | WG1425504 |
| 1,1,2-Trichloroethane | ND | | 0.00250 | 1 | 02/10/2020 21:40 | WG1425504 |
| 1,1,2-Trichlorotrifluoroethane | ND | | 0.00250 | 1 | 02/10/2020 21:40 | WG1425504 |
| 1,1-Dichloroethane | ND | | 0.00250 | 1 | 02/10/2020 21:40 | WG1425504 |
| 1,1-Dichloroethene | ND | | 0.00250 | 1 | 02/10/2020 21:40 | WG1425504 |
| 1,1-Dichloropropene | ND | | 0.00250 | 1 | 02/10/2020 21:40 | WG1425504 |
| 1,2,3-Trichlorobenzene | ND | | 0.0125 | 1 | 02/10/2020 21:40 | WG1425504 |
| 1,2,3-Trichloropropane | ND | | 0.0125 | 1 | 02/10/2020 21:40 | WG1425504 |
| 1,2,3-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 21:40 | WG1425504 |
| 1,2,4-Trichlorobenzene | ND | | 0.0125 | 1 | 02/10/2020 21:40 | WG1425504 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 21:40 | WG1425504 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0250 | 1 | 02/10/2020 21:40 | WG1425504 |
| 1,2-Dibromoethane | ND | | 0.00250 | 1 | 02/10/2020 21:40 | WG1425504 |
| 1,2-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 21:40 | WG1425504 |
| 1,2-Dichloroethane | ND | | 0.00250 | 1 | 02/10/2020 21:40 | WG1425504 |
| 1,2-Dichloropropane | ND | | 0.00500 | 1 | 02/10/2020 21:40 | WG1425504 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 21:40 | WG1425504 |
| 1,3-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 21:40 | WG1425504 |
| 1,3-Dichloropropane | ND | | 0.00500 | 1 | 02/10/2020 21:40 | WG1425504 |
| 1,4-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 21:40 | WG1425504 |
| 2,2-Dichloropropane | ND | | 0.00250 | 1 | 02/10/2020 21:40 | WG1425504 |
| 2-Butanone (MEK) | 0.0310 | B | 0.0250 | 1 | 02/10/2020 21:40 | WG1425504 |
| 2-Chlorotoluene | ND | | 0.00250 | 1 | 02/10/2020 21:40 | WG1425504 |
| 4-Chlorotoluene | ND | J4 | 0.00500 | 1 | 02/10/2020 21:40 | WG1425504 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0250 | 1 | 02/10/2020 21:40 | WG1425504 |
| Acetone | ND | | 0.0250 | 1 | 02/10/2020 21:40 | WG1425504 |
| Acrylonitrile | ND | | 0.0125 | 1 | 02/10/2020 21:40 | WG1425504 |
| Benzene | ND | | 0.00100 | 1 | 02/10/2020 21:40 | WG1425504 |
| Bromobenzene | ND | | 0.0125 | 1 | 02/10/2020 21:40 | WG1425504 |
| Bromodichloromethane | ND | | 0.00250 | 1 | 02/10/2020 21:40 | WG1425504 |
| Bromoform | ND | | 0.0250 | 1 | 02/10/2020 21:40 | WG1425504 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Bromomethane | ND | | 0.0125 | 1 | 02/10/2020 21:40 | WG1425504 |
| Carbon tetrachloride | ND | | 0.00500 | 1 | 02/10/2020 21:40 | WG1425504 |
| Chlorobenzene | ND | | 0.00250 | 1 | 02/10/2020 21:40 | WG1425504 |
| Chlorodibromomethane | ND | | 0.00250 | 1 | 02/10/2020 21:40 | WG1425504 |
| Chloroethane | ND | | 0.00500 | 1 | 02/10/2020 21:40 | WG1425504 |
| Chloroform | ND | | 0.00250 | 1 | 02/10/2020 21:40 | WG1425504 |
| Chloromethane | ND | | 0.0125 | 1 | 02/10/2020 21:40 | WG1425504 |
| Dibromomethane | ND | | 0.00500 | 1 | 02/10/2020 21:40 | WG1425504 |
| Dichlorodifluoromethane | ND | | 0.00250 | 1 | 02/10/2020 21:40 | WG1425504 |
| Di-isopropyl ether | ND | | 0.00100 | 1 | 02/10/2020 21:40 | WG1425504 |
| Ethylbenzene | ND | | 0.00250 | 1 | 02/10/2020 21:40 | WG1425504 |
| Hexachloro-1,3-butadiene | ND | | 0.0250 | 1 | 02/10/2020 21:40 | WG1425504 |
| Isopropylbenzene | ND | | 0.00250 | 1 | 02/10/2020 21:40 | WG1425504 |
| Methyl tert-butyl ether | ND | | 0.00100 | 1 | 02/10/2020 21:40 | WG1425504 |
| Methylene Chloride | ND | | 0.0250 | 1 | 02/10/2020 21:40 | WG1425504 |
| Naphthalene | ND | | 0.0125 | 1 | 02/10/2020 21:40 | WG1425504 |
| Styrene | ND | | 0.0125 | 1 | 02/10/2020 21:40 | WG1425504 |
| Tetrachloroethene | ND | | 0.00250 | 1 | 02/10/2020 21:40 | WG1425504 |
| Toluene | ND | | 0.00500 | 1 | 02/10/2020 21:40 | WG1425504 |
| Trichloroethene | ND | | 0.00100 | 1 | 02/10/2020 21:40 | WG1425504 |
| Trichlorofluoromethane | ND | | 0.00250 | 1 | 02/10/2020 21:40 | WG1425504 |
| Vinyl chloride | ND | | 0.00250 | 1 | 02/10/2020 21:40 | WG1425504 |
| Xylenes, Total | ND | | 0.00650 | 1 | 02/10/2020 21:40 | WG1425504 |
| cis-1,2-Dichloroethene | ND | | 0.00250 | 1 | 02/10/2020 21:40 | WG1425504 |
| trans-1,2-Dichloroethene | ND | | 0.00500 | 1 | 02/10/2020 21:40 | WG1425504 |
| n-Butylbenzene | ND | | 0.0125 | 1 | 02/10/2020 21:40 | WG1425504 |
| n-Propylbenzene | ND | | 0.00500 | 1 | 02/10/2020 21:40 | WG1425504 |
| p-Isopropyltoluene | ND | | 0.00500 | 1 | 02/10/2020 21:40 | WG1425504 |
| sec-Butylbenzene | ND | | 0.0125 | 1 | 02/10/2020 21:40 | WG1425504 |
| tert-Butylbenzene | ND | | 0.00500 | 1 | 02/10/2020 21:40 | WG1425504 |
| cis-1,3-Dichloropropene | ND | | 0.00250 | 1 | 02/10/2020 21:40 | WG1425504 |
| trans-1,3-Dichloropropene | ND | | 0.00500 | 1 | 02/10/2020 21:40 | WG1425504 |
| *(S) Toluene-d8* | *103* | | *75.0-131* | | *02/10/2020 21:40* | WG1425504 |
| *(S) 4-Bromofluorobenzene* | *88.3* | | *67.0-138* | | *02/10/2020 21:40* | WG1425504 |
| *(S) 1,2-Dichloroethane-d4* | *101* | | *70.0-130* | | *02/10/2020 21:40* | WG1425504 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| PCB 1016 | ND | | 0.0170 | 1 | 02/13/2020 15:36 | WG1426692 |
| PCB 1221 | ND | | 0.0170 | 1 | 02/13/2020 15:36 | WG1426692 |
| PCB 1232 | ND | | 0.0170 | 1 | 02/13/2020 15:36 | WG1426692 |
| PCB 1242 | ND | | 0.0170 | 1 | 02/13/2020 15:36 | WG1426692 |
| PCB 1248 | ND | | 0.0170 | 1 | 02/13/2020 15:36 | WG1426692 |
| PCB 1254 | ND | | 0.0170 | 1 | 02/13/2020 15:36 | WG1426692 |
| PCB 1260 | ND | | 0.0170 | 1 | 02/13/2020 15:36 | WG1426692 |
| *(S) Decachlorobiphenyl* | *106* | | *10.0-135* | | *02/13/2020 15:36* | WG1426692 |
| *(S) Tetrachloro-m-xylene* | *106* | | *10.0-139* | | *02/13/2020 15:36* | WG1426692 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Anthracene | ND | | 0.00600 | 1 | 02/13/2020 12:44 | WG1426291 |
| Acenaphthene | ND | | 0.00600 | 1 | 02/13/2020 12:44 | WG1426291 |
| Acenaphthylene | ND | | 0.00600 | 1 | 02/13/2020 12:44 | WG1426291 |
| Benzo(a)anthracene | ND | | 0.00600 | 1 | 02/13/2020 12:44 | WG1426291 |
| Benzo(a)pyrene | ND | | 0.00600 | 1 | 02/13/2020 12:44 | WG1426291 |
| Benzo(b)fluoranthene | ND | | 0.00600 | 1 | 02/13/2020 12:44 | WG1426291 |
| Benzo(g,h,i)perylene | ND | | 0.00600 | 1 | 02/13/2020 12:44 | WG1426291 |
| Benzo(k)fluoranthene | ND | | 0.00600 | 1 | 02/13/2020 12:44 | WG1426291 |
| Chrysene | ND | | 0.00600 | 1 | 02/13/2020 12:44 | WG1426291 |
| Dibenz(a,h)anthracene | ND | | 0.00600 | 1 | 02/13/2020 12:44 | WG1426291 |
| Fluoranthene | 0.0139 | | 0.00600 | 1 | 02/13/2020 12:44 | WG1426291 |
| Fluorene | ND | | 0.00600 | 1 | 02/13/2020 12:44 | WG1426291 |
| Indeno(1,2,3-cd)pyrene | ND | | 0.00600 | 1 | 02/13/2020 12:44 | WG1426291 |
| Naphthalene | ND | | 0.0200 | 1 | 02/13/2020 12:44 | WG1426291 |
| Phenanthrene | 0.00992 | | 0.00600 | 1 | 02/13/2020 12:44 | WG1426291 |
| Pyrene | 0.00926 | | 0.00600 | 1 | 02/13/2020 12:44 | WG1426291 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 12:44 | WG1426291 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 12:44 | WG1426291 |
| 2-Chloronaphthalene | ND | | 0.0200 | 1 | 02/13/2020 12:44 | WG1426291 |
| *(S) p-Terphenyl-d14* | *56.9* | | *23.0-120* | | *02/13/2020 12:44* | WG1426291 |
| *(S) Nitrobenzene-d5* | *83.5* | | *14.0-149* | | *02/13/2020 12:44* | WG1426291 |
| *(S) 2-Fluorobiphenyl* | *62.4* | | *34.0-125* | | *02/13/2020 12:44* | WG1426291 |

## Total Solids by Method 2540 G-2011

| Analyte | Result % | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| Total Solids | 76.8 | | 1 | 02/12/2020 17:09 | WG1426170 |

## Mercury by Method 7471A

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0300 | 1 | 02/11/2020 20:46 | WG1425892 |

## Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Arsenic | 4.98 | | 2.00 | 1 | 02/11/2020 15:36 | WG1425657 |
| Barium | 67.2 | | 0.500 | 1 | 02/11/2020 15:36 | WG1425657 |
| Cadmium | ND | | 0.500 | 1 | 02/11/2020 15:36 | WG1425657 |
| Chromium | 7.17 | | 1.00 | 1 | 02/11/2020 15:36 | WG1425657 |
| Lead | 6.51 | | 0.500 | 1 | 02/11/2020 15:36 | WG1425657 |
| Selenium | ND | | 2.00 | 1 | 02/11/2020 15:36 | WG1425657 |
| Silver | ND | | 1.00 | 1 | 02/11/2020 15:36 | WG1425657 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | J4 | 0.00250 | 1 | 02/10/2020 21:59 | WG1425504 |
| 1,1,1-Trichloroethane | ND | | 0.00250 | 1 | 02/10/2020 21:59 | WG1425504 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/10/2020 21:59 | WG1425504 |
| 1,1,2-Trichloroethane | ND | | 0.00250 | 1 | 02/10/2020 21:59 | WG1425504 |
| 1,1,2-Trichlorotrifluoroethane | ND | | 0.00250 | 1 | 02/10/2020 21:59 | WG1425504 |
| 1,1-Dichloroethane | ND | | 0.00250 | 1 | 02/10/2020 21:59 | WG1425504 |
| 1,1-Dichloroethene | ND | | 0.00250 | 1 | 02/10/2020 21:59 | WG1425504 |
| 1,1-Dichloropropene | ND | | 0.00250 | 1 | 02/10/2020 21:59 | WG1425504 |
| 1,2,3-Trichlorobenzene | ND | | 0.0125 | 1 | 02/10/2020 21:59 | WG1425504 |
| 1,2,3-Trichloropropane | ND | | 0.0125 | 1 | 02/10/2020 21:59 | WG1425504 |
| 1,2,3-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 21:59 | WG1425504 |
| 1,2,4-Trichlorobenzene | ND | | 0.0125 | 1 | 02/10/2020 21:59 | WG1425504 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 21:59 | WG1425504 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0250 | 1 | 02/10/2020 21:59 | WG1425504 |
| 1,2-Dibromoethane | ND | | 0.00250 | 1 | 02/10/2020 21:59 | WG1425504 |
| 1,2-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 21:59 | WG1425504 |
| 1,2-Dichloroethane | ND | | 0.00250 | 1 | 02/10/2020 21:59 | WG1425504 |
| 1,2-Dichloropropane | ND | | 0.00500 | 1 | 02/10/2020 21:59 | WG1425504 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 21:59 | WG1425504 |
| 1,3-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 21:59 | WG1425504 |
| 1,3-Dichloropropane | ND | | 0.00500 | 1 | 02/10/2020 21:59 | WG1425504 |
| 1,4-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 21:59 | WG1425504 |
| 2,2-Dichloropropane | ND | | 0.00250 | 1 | 02/10/2020 21:59 | WG1425504 |
| 2-Butanone (MEK) | 0.0265 | B | 0.0250 | 1 | 02/10/2020 21:59 | WG1425504 |
| 2-Chlorotoluene | ND | | 0.00250 | 1 | 02/10/2020 21:59 | WG1425504 |
| 4-Chlorotoluene | ND | J4 | 0.00500 | 1 | 02/10/2020 21:59 | WG1425504 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0250 | 1 | 02/10/2020 21:59 | WG1425504 |
| Acetone | ND | | 0.0250 | 1 | 02/10/2020 21:59 | WG1425504 |
| Acrylonitrile | ND | | 0.0125 | 1 | 02/10/2020 21:59 | WG1425504 |
| Benzene | ND | | 0.00100 | 1 | 02/10/2020 21:59 | WG1425504 |
| Bromobenzene | ND | | 0.0125 | 1 | 02/10/2020 21:59 | WG1425504 |
| Bromodichloromethane | ND | | 0.00250 | 1 | 02/10/2020 21:59 | WG1425504 |
| Bromoform | ND | | 0.0250 | 1 | 02/10/2020 21:59 | WG1425504 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Bromomethane | ND | | 0.0125 | 1 | 02/10/2020 21:59 | WG1425504 |
| Carbon tetrachloride | ND | | 0.00500 | 1 | 02/10/2020 21:59 | WG1425504 |
| Chlorobenzene | ND | | 0.00250 | 1 | 02/10/2020 21:59 | WG1425504 |
| Chlorodibromomethane | ND | | 0.00250 | 1 | 02/10/2020 21:59 | WG1425504 |
| Chloroethane | ND | | 0.00500 | 1 | 02/10/2020 21:59 | WG1425504 |
| Chloroform | ND | | 0.00250 | 1 | 02/10/2020 21:59 | WG1425504 |
| Chloromethane | ND | | 0.0125 | 1 | 02/10/2020 21:59 | WG1425504 |
| Dibromomethane | ND | | 0.00500 | 1 | 02/10/2020 21:59 | WG1425504 |
| Dichlorodifluoromethane | ND | | 0.00250 | 1 | 02/10/2020 21:59 | WG1425504 |
| Di-isopropyl ether | ND | | 0.00100 | 1 | 02/10/2020 21:59 | WG1425504 |
| Ethylbenzene | ND | | 0.00250 | 1 | 02/10/2020 21:59 | WG1425504 |
| Hexachloro-1,3-butadiene | ND | | 0.0250 | 1 | 02/10/2020 21:59 | WG1425504 |
| Isopropylbenzene | ND | | 0.00250 | 1 | 02/10/2020 21:59 | WG1425504 |
| Methyl tert-butyl ether | ND | | 0.00100 | 1 | 02/10/2020 21:59 | WG1425504 |
| Methylene Chloride | ND | | 0.0250 | 1 | 02/10/2020 21:59 | WG1425504 |
| Naphthalene | ND | | 0.0125 | 1 | 02/10/2020 21:59 | WG1425504 |
| Styrene | ND | | 0.0125 | 1 | 02/10/2020 21:59 | WG1425504 |
| Tetrachloroethene | ND | | 0.00250 | 1 | 02/10/2020 21:59 | WG1425504 |
| Toluene | ND | | 0.00500 | 1 | 02/10/2020 21:59 | WG1425504 |
| Trichloroethene | ND | | 0.00100 | 1 | 02/10/2020 21:59 | WG1425504 |
| Trichlorofluoromethane | ND | | 0.00250 | 1 | 02/10/2020 21:59 | WG1425504 |
| Vinyl chloride | ND | | 0.00250 | 1 | 02/10/2020 21:59 | WG1425504 |
| Xylenes, Total | ND | | 0.00650 | 1 | 02/10/2020 21:59 | WG1425504 |
| cis-1,2-Dichloroethene | ND | | 0.00250 | 1 | 02/10/2020 21:59 | WG1425504 |
| trans-1,2-Dichloroethene | ND | | 0.00500 | 1 | 02/10/2020 21:59 | WG1425504 |
| n-Butylbenzene | ND | | 0.0125 | 1 | 02/10/2020 21:59 | WG1425504 |
| n-Propylbenzene | ND | | 0.00500 | 1 | 02/10/2020 21:59 | WG1425504 |
| p-Isopropyltoluene | ND | | 0.00500 | 1 | 02/10/2020 21:59 | WG1425504 |
| sec-Butylbenzene | ND | | 0.0125 | 1 | 02/10/2020 21:59 | WG1425504 |
| tert-Butylbenzene | ND | | 0.00500 | 1 | 02/10/2020 21:59 | WG1425504 |
| cis-1,3-Dichloropropene | ND | | 0.00250 | 1 | 02/10/2020 21:59 | WG1425504 |
| trans-1,3-Dichloropropene | ND | | 0.00500 | 1 | 02/10/2020 21:59 | WG1425504 |
| *(S) Toluene-d8* | *100* | | *75.0-131* | | *02/10/2020 21:59* | WG1425504 |
| *(S) 4-Bromofluorobenzene* | *87.7* | | *67.0-138* | | *02/10/2020 21:59* | WG1425504 |
| *(S) 1,2-Dichloroethane-d4* | *99.9* | | *70.0-130* | | *02/10/2020 21:59* | WG1425504 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| PCB 1016 | ND | | 0.0170 | 1 | 02/13/2020 15:49 | WG1426692 |
| PCB 1221 | ND | | 0.0170 | 1 | 02/13/2020 15:49 | WG1426692 |
| PCB 1232 | ND | | 0.0170 | 1 | 02/13/2020 15:49 | WG1426692 |
| PCB 1242 | ND | | 0.0170 | 1 | 02/13/2020 15:49 | WG1426692 |
| PCB 1248 | ND | | 0.0170 | 1 | 02/13/2020 15:49 | WG1426692 |
| PCB 1254 | ND | | 0.0170 | 1 | 02/13/2020 15:49 | WG1426692 |
| PCB 1260 | ND | | 0.0170 | 1 | 02/13/2020 15:49 | WG1426692 |
| *(S) Decachlorobiphenyl* | *80.6* | | *10.0-135* | | *02/13/2020 15:49* | WG1426692 |
| *(S) Tetrachloro-m-xylene* | *79.4* | | *10.0-139* | | *02/13/2020 15:49* | WG1426692 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Anthracene | ND | J3 | 0.00600 | 1 | 02/13/2020 13:07 | WG1426291 |
| Acenaphthene | ND | | 0.00600 | 1 | 02/13/2020 13:07 | WG1426291 |
| Acenaphthylene | ND | | 0.00600 | 1 | 02/13/2020 13:07 | WG1426291 |
| Benzo(a)anthracene | ND | J3 J5 | 0.00600 | 1 | 02/13/2020 13:07 | WG1426291 |
| Benzo(a)pyrene | ND | J3 J5 | 0.00600 | 1 | 02/13/2020 13:07 | WG1426291 |
| Benzo(b)fluoranthene | ND | J3 J5 | 0.00600 | 1 | 02/13/2020 13:07 | WG1426291 |
| Benzo(g,h,i)perylene | ND | J3 | 0.00600 | 1 | 02/13/2020 13:07 | WG1426291 |
| Benzo(k)fluoranthene | ND | J3 | 0.00600 | 1 | 02/13/2020 13:07 | WG1426291 |
| Chrysene | ND | J3 J5 | 0.00600 | 1 | 02/13/2020 13:07 | WG1426291 |
| Dibenz(a,h)anthracene | ND | | 0.00600 | 1 | 02/13/2020 13:07 | WG1426291 |
| Fluoranthene | 0.00862 | J3 J5 | 0.00600 | 1 | 02/13/2020 13:07 | WG1426291 |
| Fluorene | ND | | 0.00600 | 1 | 02/13/2020 13:07 | WG1426291 |
| Indeno(1,2,3-cd)pyrene | ND | J3 | 0.00600 | 1 | 02/13/2020 13:07 | WG1426291 |
| Naphthalene | ND | | 0.0200 | 1 | 02/13/2020 13:07 | WG1426291 |
| Phenanthrene | ND | J3 J5 | 0.00600 | 1 | 02/13/2020 13:07 | WG1426291 |
| Pyrene | 0.00649 | J3 J5 | 0.00600 | 1 | 02/13/2020 13:07 | WG1426291 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 13:07 | WG1426291 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 13:07 | WG1426291 |
| 2-Chloronaphthalene | ND | | 0.0200 | 1 | 02/13/2020 13:07 | WG1426291 |
| *(S) p-Terphenyl-d14* | *51.3* | | *23.0-120* | | *02/13/2020 13:07* | WG1426291 |
| *(S) Nitrobenzene-d5* | *79.7* | | *14.0-149* | | *02/13/2020 13:07* | WG1426291 |
| *(S) 2-Fluorobiphenyl* | *59.3* | | *34.0-125* | | *02/13/2020 13:07* | WG1426291 |

## Total Solids by Method 2540 G-2011

| Analyte | Result % | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| Total Solids | 82.2 | | 1 | 02/12/2020 22:52 | WG1426171 |

## Mercury by Method 7471A

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0300 | 1 | 02/11/2020 20:49 | WG1425892 |

## Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Arsenic | 4.48 | | 2.00 | 1 | 02/11/2020 16:06 | WG1425657 |
| Barium | 108 | | 0.500 | 1 | 02/11/2020 16:06 | WG1425657 |
| Cadmium | ND | | 0.500 | 1 | 02/11/2020 16:06 | WG1425657 |
| Chromium | 10.5 | | 1.00 | 1 | 02/11/2020 16:06 | WG1425657 |
| Lead | 12.8 | | 0.500 | 1 | 02/11/2020 16:06 | WG1425657 |
| Selenium | ND | | 2.00 | 1 | 02/11/2020 16:06 | WG1425657 |
| Silver | ND | | 1.00 | 1 | 02/11/2020 16:06 | WG1425657 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | J4 | 0.00250 | 1 | 02/10/2020 22:18 | WG1425504 |
| 1,1,1-Trichloroethane | ND | | 0.00250 | 1 | 02/10/2020 22:18 | WG1425504 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/10/2020 22:18 | WG1425504 |
| 1,1,2-Trichloroethane | ND | | 0.00250 | 1 | 02/10/2020 22:18 | WG1425504 |
| 1,1,2-Trichlorotrifluoroethane | ND | | 0.00250 | 1 | 02/10/2020 22:18 | WG1425504 |
| 1,1-Dichloroethane | ND | | 0.00250 | 1 | 02/10/2020 22:18 | WG1425504 |
| 1,1-Dichloroethene | ND | | 0.00250 | 1 | 02/10/2020 22:18 | WG1425504 |
| 1,1-Dichloropropene | ND | | 0.00250 | 1 | 02/10/2020 22:18 | WG1425504 |
| 1,2,3-Trichlorobenzene | ND | | 0.0125 | 1 | 02/10/2020 22:18 | WG1425504 |
| 1,2,3-Trichloropropane | ND | | 0.0125 | 1 | 02/10/2020 22:18 | WG1425504 |
| 1,2,3-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 22:18 | WG1425504 |
| 1,2,4-Trichlorobenzene | ND | | 0.0125 | 1 | 02/10/2020 22:18 | WG1425504 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 22:18 | WG1425504 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0250 | 1 | 02/10/2020 22:18 | WG1425504 |
| 1,2-Dibromoethane | ND | | 0.00250 | 1 | 02/10/2020 22:18 | WG1425504 |
| 1,2-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 22:18 | WG1425504 |
| 1,2-Dichloroethane | ND | | 0.00250 | 1 | 02/10/2020 22:18 | WG1425504 |
| 1,2-Dichloropropane | ND | | 0.00500 | 1 | 02/10/2020 22:18 | WG1425504 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 22:18 | WG1425504 |
| 1,3-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 22:18 | WG1425504 |
| 1,3-Dichloropropane | ND | | 0.00500 | 1 | 02/10/2020 22:18 | WG1425504 |
| 1,4-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 22:18 | WG1425504 |
| 2,2-Dichloropropane | ND | | 0.00250 | 1 | 02/10/2020 22:18 | WG1425504 |
| 2-Butanone (MEK) | ND | | 0.0250 | 1 | 02/10/2020 22:18 | WG1425504 |
| 2-Chlorotoluene | ND | | 0.00250 | 1 | 02/10/2020 22:18 | WG1425504 |
| 4-Chlorotoluene | ND | J4 | 0.00500 | 1 | 02/10/2020 22:18 | WG1425504 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0250 | 1 | 02/10/2020 22:18 | WG1425504 |
| Acetone | ND | | 0.0250 | 1 | 02/10/2020 22:18 | WG1425504 |
| Acrylonitrile | ND | | 0.0125 | 1 | 02/10/2020 22:18 | WG1425504 |
| Benzene | ND | | 0.00100 | 1 | 02/10/2020 22:18 | WG1425504 |
| Bromobenzene | ND | | 0.0125 | 1 | 02/10/2020 22:18 | WG1425504 |
| Bromodichloromethane | ND | | 0.00250 | 1 | 02/10/2020 22:18 | WG1425504 |
| Bromoform | ND | | 0.0250 | 1 | 02/10/2020 22:18 | WG1425504 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Bromomethane | ND | | 0.0125 | 1 | 02/10/2020 22:18 | WG1425504 |
| Carbon tetrachloride | ND | | 0.00500 | 1 | 02/10/2020 22:18 | WG1425504 |
| Chlorobenzene | ND | | 0.00250 | 1 | 02/10/2020 22:18 | WG1425504 |
| Chlorodibromomethane | ND | | 0.00250 | 1 | 02/10/2020 22:18 | WG1425504 |
| Chloroethane | ND | | 0.00500 | 1 | 02/10/2020 22:18 | WG1425504 |
| Chloroform | ND | | 0.00250 | 1 | 02/10/2020 22:18 | WG1425504 |
| Chloromethane | ND | | 0.0125 | 1 | 02/10/2020 22:18 | WG1425504 |
| Dibromomethane | ND | | 0.00500 | 1 | 02/10/2020 22:18 | WG1425504 |
| Dichlorodifluoromethane | ND | | 0.00250 | 1 | 02/10/2020 22:18 | WG1425504 |
| Di-isopropyl ether | ND | | 0.00100 | 1 | 02/10/2020 22:18 | WG1425504 |
| Ethylbenzene | ND | | 0.00250 | 1 | 02/10/2020 22:18 | WG1425504 |
| Hexachloro-1,3-butadiene | ND | | 0.0250 | 1 | 02/10/2020 22:18 | WG1425504 |
| Isopropylbenzene | ND | | 0.00250 | 1 | 02/10/2020 22:18 | WG1425504 |
| Methyl tert-butyl ether | ND | | 0.00100 | 1 | 02/10/2020 22:18 | WG1425504 |
| Methylene Chloride | ND | | 0.0250 | 1 | 02/10/2020 22:18 | WG1425504 |
| Naphthalene | ND | | 0.0125 | 1 | 02/10/2020 22:18 | WG1425504 |
| Styrene | ND | | 0.0125 | 1 | 02/10/2020 22:18 | WG1425504 |
| Tetrachloroethene | ND | | 0.00250 | 1 | 02/10/2020 22:18 | WG1425504 |
| Toluene | ND | | 0.00500 | 1 | 02/10/2020 22:18 | WG1425504 |
| Trichloroethene | ND | | 0.00100 | 1 | 02/10/2020 22:18 | WG1425504 |
| Trichlorofluoromethane | ND | | 0.00250 | 1 | 02/10/2020 22:18 | WG1425504 |
| Vinyl chloride | ND | | 0.00250 | 1 | 02/10/2020 22:18 | WG1425504 |
| Xylenes, Total | ND | | 0.00650 | 1 | 02/10/2020 22:18 | WG1425504 |
| cis-1,2-Dichloroethene | ND | | 0.00250 | 1 | 02/10/2020 22:18 | WG1425504 |
| trans-1,2-Dichloroethene | ND | | 0.00500 | 1 | 02/10/2020 22:18 | WG1425504 |
| n-Butylbenzene | ND | | 0.0125 | 1 | 02/10/2020 22:18 | WG1425504 |
| n-Propylbenzene | ND | | 0.00500 | 1 | 02/10/2020 22:18 | WG1425504 |
| p-Isopropyltoluene | ND | | 0.00500 | 1 | 02/10/2020 22:18 | WG1425504 |
| sec-Butylbenzene | ND | | 0.0125 | 1 | 02/10/2020 22:18 | WG1425504 |
| tert-Butylbenzene | ND | | 0.00500 | 1 | 02/10/2020 22:18 | WG1425504 |
| cis-1,3-Dichloropropene | ND | | 0.00250 | 1 | 02/10/2020 22:18 | WG1425504 |
| trans-1,3-Dichloropropene | ND | | 0.00500 | 1 | 02/10/2020 22:18 | WG1425504 |
| *(S) Toluene-d8* | *101* | | *75.0-131* | | *02/10/2020 22:18* | WG1425504 |
| *(S) 4-Bromofluorobenzene* | *87.6* | | *67.0-138* | | *02/10/2020 22:18* | WG1425504 |
| *(S) 1,2-Dichloroethane-d4* | *101* | | *70.0-130* | | *02/10/2020 22:18* | WG1425504 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| PCB 1016 | ND | | 0.0170 | 1 | 02/13/2020 16:03 | WG1426692 |
| PCB 1221 | ND | | 0.0170 | 1 | 02/13/2020 16:03 | WG1426692 |
| PCB 1232 | ND | | 0.0170 | 1 | 02/13/2020 16:03 | WG1426692 |
| PCB 1242 | ND | | 0.0170 | 1 | 02/13/2020 16:03 | WG1426692 |
| PCB 1248 | ND | | 0.0170 | 1 | 02/13/2020 16:03 | WG1426692 |
| PCB 1254 | ND | | 0.0170 | 1 | 02/13/2020 16:03 | WG1426692 |
| PCB 1260 | ND | | 0.0170 | 1 | 02/13/2020 16:03 | WG1426692 |
| *(S) Decachlorobiphenyl* | *97.7* | | *10.0-135* | | *02/13/2020 16:03* | WG1426692 |
| *(S) Tetrachloro-m-xylene* | *105* | | *10.0-139* | | *02/13/2020 16:03* | WG1426692 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Anthracene | 0.0510 | | 0.00600 | 1 | 02/13/2020 14:16 | WG1426291 |
| Acenaphthene | 0.0807 | | 0.00600 | 1 | 02/13/2020 14:16 | WG1426291 |
| Acenaphthylene | ND | | 0.00600 | 1 | 02/13/2020 14:16 | WG1426291 |
| Benzo(a)anthracene | 0.0766 | | 0.00600 | 1 | 02/13/2020 14:16 | WG1426291 |
| Benzo(a)pyrene | 0.0578 | | 0.00600 | 1 | 02/13/2020 14:16 | WG1426291 |
| Benzo(b)fluoranthene | 0.161 | | 0.00600 | 1 | 02/13/2020 14:16 | WG1426291 |
| Benzo(g,h,i)perylene | 0.0406 | | 0.00600 | 1 | 02/13/2020 14:16 | WG1426291 |
| Benzo(k)fluoranthene | 0.0362 | | 0.00600 | 1 | 02/13/2020 14:16 | WG1426291 |
| Chrysene | 0.113 | | 0.00600 | 1 | 02/13/2020 14:16 | WG1426291 |
| Dibenz(a,h)anthracene | 0.0100 | | 0.00600 | 1 | 02/13/2020 14:16 | WG1426291 |
| Fluoranthene | 0.594 | | 0.00600 | 1 | 02/13/2020 14:16 | WG1426291 |
| Fluorene | 0.0740 | | 0.00600 | 1 | 02/13/2020 14:16 | WG1426291 |
| Indeno(1,2,3-cd)pyrene | 0.0347 | | 0.00600 | 1 | 02/13/2020 14:16 | WG1426291 |
| Naphthalene | 0.0757 | | 0.0200 | 1 | 02/13/2020 14:16 | WG1426291 |
| Phenanthrene | 0.187 | | 0.00600 | 1 | 02/13/2020 14:16 | WG1426291 |
| Pyrene | 0.373 | | 0.00600 | 1 | 02/13/2020 14:16 | WG1426291 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 14:16 | WG1426291 |
| 2-Methylnaphthalene | 0.0382 | | 0.0200 | 1 | 02/13/2020 14:16 | WG1426291 |
| 2-Chloronaphthalene | ND | | 0.0200 | 1 | 02/13/2020 14:16 | WG1426291 |
| *(S) p-Terphenyl-d14* | *74.2* | | *23.0-120* | | *02/13/2020 14:16* | WG1426291 |
| *(S) Nitrobenzene-d5* | *91.9* | | *14.0-149* | | *02/13/2020 14:16* | WG1426291 |
| *(S) 2-Fluorobiphenyl* | *69.0* | | *34.0-125* | | *02/13/2020 14:16* | WG1426291 |

## Total Solids by Method 2540 G-2011

| Analyte | Result % | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| Total Solids | 75.6 | | 1 | 02/12/2020 22:52 | WG1426171 |

## Mercury by Method 7471A

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0300 | 1 | 02/11/2020 20:51 | WG1425892 |

## Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Arsenic | 5.65 | | 2.00 | 1 | 02/11/2020 16:09 | WG1425657 |
| Barium | 99.3 | | 0.500 | 1 | 02/11/2020 16:09 | WG1425657 |
| Cadmium | ND | | 0.500 | 1 | 02/11/2020 16:09 | WG1425657 |
| Chromium | 10.2 | | 1.00 | 1 | 02/11/2020 16:09 | WG1425657 |
| Lead | 6.69 | | 0.500 | 1 | 02/11/2020 16:09 | WG1425657 |
| Selenium | ND | | 2.00 | 1 | 02/11/2020 16:09 | WG1425657 |
| Silver | ND | | 1.00 | 1 | 02/11/2020 16:09 | WG1425657 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | J4 | 0.00250 | 1 | 02/10/2020 22:37 | WG1425504 |
| 1,1,1-Trichloroethane | ND | | 0.00250 | 1 | 02/10/2020 22:37 | WG1425504 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/10/2020 22:37 | WG1425504 |
| 1,1,2-Trichloroethane | ND | | 0.00250 | 1 | 02/10/2020 22:37 | WG1425504 |
| 1,1,2-Trichlorotrifluoroethane | ND | | 0.00250 | 1 | 02/10/2020 22:37 | WG1425504 |
| 1,1-Dichloroethane | ND | | 0.00250 | 1 | 02/10/2020 22:37 | WG1425504 |
| 1,1-Dichloroethene | ND | | 0.00250 | 1 | 02/10/2020 22:37 | WG1425504 |
| 1,1-Dichloropropene | ND | | 0.00250 | 1 | 02/10/2020 22:37 | WG1425504 |
| 1,2,3-Trichlorobenzene | ND | | 0.0125 | 1 | 02/10/2020 22:37 | WG1425504 |
| 1,2,3-Trichloropropane | ND | | 0.0125 | 1 | 02/10/2020 22:37 | WG1425504 |
| 1,2,3-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 22:37 | WG1425504 |
| 1,2,4-Trichlorobenzene | ND | | 0.0125 | 1 | 02/10/2020 22:37 | WG1425504 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 22:37 | WG1425504 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0250 | 1 | 02/10/2020 22:37 | WG1425504 |
| 1,2-Dibromoethane | ND | | 0.00250 | 1 | 02/10/2020 22:37 | WG1425504 |
| 1,2-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 22:37 | WG1425504 |
| 1,2-Dichloroethane | ND | | 0.00250 | 1 | 02/10/2020 22:37 | WG1425504 |
| 1,2-Dichloropropane | ND | | 0.00500 | 1 | 02/10/2020 22:37 | WG1425504 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 22:37 | WG1425504 |
| 1,3-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 22:37 | WG1425504 |
| 1,3-Dichloropropane | ND | | 0.00500 | 1 | 02/10/2020 22:37 | WG1425504 |
| 1,4-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 22:37 | WG1425504 |
| 2,2-Dichloropropane | ND | | 0.00250 | 1 | 02/10/2020 22:37 | WG1425504 |
| 2-Butanone (MEK) | ND | | 0.0250 | 1 | 02/10/2020 22:37 | WG1425504 |
| 2-Chlorotoluene | ND | | 0.00250 | 1 | 02/10/2020 22:37 | WG1425504 |
| 4-Chlorotoluene | ND | J4 | 0.00500 | 1 | 02/10/2020 22:37 | WG1425504 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0250 | 1 | 02/10/2020 22:37 | WG1425504 |
| Acetone | ND | | 0.0250 | 1 | 02/10/2020 22:37 | WG1425504 |
| Acrylonitrile | ND | | 0.0125 | 1 | 02/10/2020 22:37 | WG1425504 |
| Benzene | ND | | 0.00100 | 1 | 02/10/2020 22:37 | WG1425504 |
| Bromobenzene | ND | | 0.0125 | 1 | 02/10/2020 22:37 | WG1425504 |
| Bromodichloromethane | ND | | 0.00250 | 1 | 02/10/2020 22:37 | WG1425504 |
| Bromoform | ND | | 0.0250 | 1 | 02/10/2020 22:37 | WG1425504 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Bromomethane | ND | | 0.0125 | 1 | 02/10/2020 22:37 | WG1425504 |
| Carbon tetrachloride | ND | | 0.00500 | 1 | 02/10/2020 22:37 | WG1425504 |
| Chlorobenzene | ND | | 0.00250 | 1 | 02/10/2020 22:37 | WG1425504 |
| Chlorodibromomethane | ND | | 0.00250 | 1 | 02/10/2020 22:37 | WG1425504 |
| Chloroethane | ND | | 0.00500 | 1 | 02/10/2020 22:37 | WG1425504 |
| Chloroform | ND | | 0.00250 | 1 | 02/10/2020 22:37 | WG1425504 |
| Chloromethane | ND | | 0.0125 | 1 | 02/10/2020 22:37 | WG1425504 |
| Dibromomethane | ND | | 0.00500 | 1 | 02/10/2020 22:37 | WG1425504 |
| Dichlorodifluoromethane | ND | | 0.00250 | 1 | 02/10/2020 22:37 | WG1425504 |
| Di-isopropyl ether | ND | | 0.00100 | 1 | 02/10/2020 22:37 | WG1425504 |
| Ethylbenzene | ND | | 0.00250 | 1 | 02/10/2020 22:37 | WG1425504 |
| Hexachloro-1,3-butadiene | ND | | 0.0250 | 1 | 02/10/2020 22:37 | WG1425504 |
| Isopropylbenzene | ND | | 0.00250 | 1 | 02/10/2020 22:37 | WG1425504 |
| Methyl tert-butyl ether | ND | | 0.00100 | 1 | 02/10/2020 22:37 | WG1425504 |
| Methylene Chloride | ND | | 0.0250 | 1 | 02/10/2020 22:37 | WG1425504 |
| Naphthalene | ND | | 0.0125 | 1 | 02/10/2020 22:37 | WG1425504 |
| Styrene | ND | | 0.0125 | 1 | 02/10/2020 22:37 | WG1425504 |
| Tetrachloroethene | ND | | 0.00250 | 1 | 02/10/2020 22:37 | WG1425504 |
| Toluene | ND | | 0.00500 | 1 | 02/10/2020 22:37 | WG1425504 |
| Trichloroethene | ND | | 0.00100 | 1 | 02/10/2020 22:37 | WG1425504 |
| Trichlorofluoromethane | ND | | 0.00250 | 1 | 02/10/2020 22:37 | WG1425504 |
| Vinyl chloride | ND | | 0.00250 | 1 | 02/10/2020 22:37 | WG1425504 |
| Xylenes, Total | ND | | 0.00650 | 1 | 02/10/2020 22:37 | WG1425504 |
| cis-1,2-Dichloroethene | ND | | 0.00250 | 1 | 02/10/2020 22:37 | WG1425504 |
| trans-1,2-Dichloroethene | ND | | 0.00500 | 1 | 02/10/2020 22:37 | WG1425504 |
| n-Butylbenzene | ND | | 0.0125 | 1 | 02/10/2020 22:37 | WG1425504 |
| n-Propylbenzene | ND | | 0.00500 | 1 | 02/10/2020 22:37 | WG1425504 |
| p-Isopropyltoluene | ND | | 0.00500 | 1 | 02/10/2020 22:37 | WG1425504 |
| sec-Butylbenzene | ND | | 0.0125 | 1 | 02/10/2020 22:37 | WG1425504 |
| tert-Butylbenzene | ND | | 0.00500 | 1 | 02/10/2020 22:37 | WG1425504 |
| cis-1,3-Dichloropropene | ND | | 0.00250 | 1 | 02/10/2020 22:37 | WG1425504 |
| trans-1,3-Dichloropropene | ND | | 0.00500 | 1 | 02/10/2020 22:37 | WG1425504 |
| *(S) Toluene-d8* | *101* | | *75.0-131* | | *02/10/2020 22:37* | WG1425504 |
| *(S) 4-Bromofluorobenzene* | *87.4* | | *67.0-138* | | *02/10/2020 22:37* | WG1425504 |
| *(S) 1,2-Dichloroethane-d4* | *101* | | *70.0-130* | | *02/10/2020 22:37* | WG1425504 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| PCB 1016 | ND | | 0.0170 | 1 | 02/13/2020 16:17 | WG1426692 |
| PCB 1221 | ND | | 0.0170 | 1 | 02/13/2020 16:17 | WG1426692 |
| PCB 1232 | ND | | 0.0170 | 1 | 02/13/2020 16:17 | WG1426692 |
| PCB 1242 | ND | | 0.0170 | 1 | 02/13/2020 16:17 | WG1426692 |
| PCB 1248 | ND | | 0.0170 | 1 | 02/13/2020 16:17 | WG1426692 |
| PCB 1254 | ND | | 0.0170 | 1 | 02/13/2020 16:17 | WG1426692 |
| PCB 1260 | ND | | 0.0170 | 1 | 02/13/2020 16:17 | WG1426692 |
| *(S) Decachlorobiphenyl* | *82.4* | | *10.0-135* | | *02/13/2020 16:17* | WG1426692 |
| *(S) Tetrachloro-m-xylene* | *102* | | *10.0-139* | | *02/13/2020 16:17* | WG1426692 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Anthracene | ND | | 0.00600 | 1 | 02/13/2020 14:39 | WG1426291 |
| Acenaphthene | ND | | 0.00600 | 1 | 02/13/2020 14:39 | WG1426291 |
| Acenaphthylene | ND | | 0.00600 | 1 | 02/13/2020 14:39 | WG1426291 |
| Benzo(a)anthracene | ND | | 0.00600 | 1 | 02/13/2020 14:39 | WG1426291 |
| Benzo(a)pyrene | ND | | 0.00600 | 1 | 02/13/2020 14:39 | WG1426291 |
| Benzo(b)fluoranthene | ND | | 0.00600 | 1 | 02/13/2020 14:39 | WG1426291 |
| Benzo(g,h,i)perylene | ND | | 0.00600 | 1 | 02/13/2020 14:39 | WG1426291 |
| Benzo(k)fluoranthene | ND | | 0.00600 | 1 | 02/13/2020 14:39 | WG1426291 |
| Chrysene | ND | | 0.00600 | 1 | 02/13/2020 14:39 | WG1426291 |
| Dibenz(a,h)anthracene | ND | | 0.00600 | 1 | 02/13/2020 14:39 | WG1426291 |
| Fluoranthene | 0.00751 | | 0.00600 | 1 | 02/13/2020 14:39 | WG1426291 |
| Fluorene | ND | | 0.00600 | 1 | 02/13/2020 14:39 | WG1426291 |
| Indeno(1,2,3-cd)pyrene | ND | | 0.00600 | 1 | 02/13/2020 14:39 | WG1426291 |
| Naphthalene | ND | | 0.0200 | 1 | 02/13/2020 14:39 | WG1426291 |
| Phenanthrene | ND | | 0.00600 | 1 | 02/13/2020 14:39 | WG1426291 |
| Pyrene | ND | | 0.00600 | 1 | 02/13/2020 14:39 | WG1426291 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 14:39 | WG1426291 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 14:39 | WG1426291 |
| 2-Chloronaphthalene | ND | | 0.0200 | 1 | 02/13/2020 14:39 | WG1426291 |
| *(S) p-Terphenyl-d14* | *65.8* | | *23.0-120* | | *02/13/2020 14:39* | WG1426291 |
| *(S) Nitrobenzene-d5* | *90.6* | | *14.0-149* | | *02/13/2020 14:39* | WG1426291 |
| *(S) 2-Fluorobiphenyl* | *71.1* | | *34.0-125* | | *02/13/2020 14:39* | WG1426291 |

## Total Solids by Method 2540 G-2011

| Analyte | Result % | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| Total Solids | 80.7 | | 1 | 02/12/2020 22:52 | WG1426171 |

## Mercury by Method 7471A

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Mercury | 0.0382 | | 0.0300 | 1 | 02/11/2020 20:54 | WG1425892 |

## Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Arsenic | 5.95 | | 2.00 | 1 | 02/11/2020 16:12 | WG1425657 |
| Barium | 107 | | 0.500 | 1 | 02/11/2020 16:12 | WG1425657 |
| Cadmium | ND | | 0.500 | 1 | 02/11/2020 16:12 | WG1425657 |
| Chromium | 11.9 | | 1.00 | 1 | 02/11/2020 16:12 | WG1425657 |
| Lead | 14.5 | | 0.500 | 1 | 02/11/2020 16:12 | WG1425657 |
| Selenium | 2.78 | | 2.00 | 1 | 02/11/2020 16:12 | WG1425657 |
| Silver | ND | | 1.00 | 1 | 02/11/2020 16:12 | WG1425657 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | J4 | 0.00250 | 1 | 02/10/2020 22:56 | WG1425504 |
| 1,1,1-Trichloroethane | ND | | 0.00250 | 1 | 02/10/2020 22:56 | WG1425504 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/10/2020 22:56 | WG1425504 |
| 1,1,2-Trichloroethane | ND | | 0.00250 | 1 | 02/10/2020 22:56 | WG1425504 |
| 1,1,2-Trichlorotrifluoroethane | ND | | 0.00250 | 1 | 02/10/2020 22:56 | WG1425504 |
| 1,1-Dichloroethane | ND | | 0.00250 | 1 | 02/10/2020 22:56 | WG1425504 |
| 1,1-Dichloroethene | ND | | 0.00250 | 1 | 02/10/2020 22:56 | WG1425504 |
| 1,1-Dichloropropene | ND | | 0.00250 | 1 | 02/10/2020 22:56 | WG1425504 |
| 1,2,3-Trichlorobenzene | ND | | 0.0125 | 1 | 02/10/2020 22:56 | WG1425504 |
| 1,2,3-Trichloropropane | ND | | 0.0125 | 1 | 02/10/2020 22:56 | WG1425504 |
| 1,2,3-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 22:56 | WG1425504 |
| 1,2,4-Trichlorobenzene | ND | | 0.0125 | 1 | 02/10/2020 22:56 | WG1425504 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 22:56 | WG1425504 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0250 | 1 | 02/10/2020 22:56 | WG1425504 |
| 1,2-Dibromoethane | ND | | 0.00250 | 1 | 02/10/2020 22:56 | WG1425504 |
| 1,2-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 22:56 | WG1425504 |
| 1,2-Dichloroethane | ND | | 0.00250 | 1 | 02/10/2020 22:56 | WG1425504 |
| 1,2-Dichloropropane | ND | | 0.00500 | 1 | 02/10/2020 22:56 | WG1425504 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 22:56 | WG1425504 |
| 1,3-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 22:56 | WG1425504 |
| 1,3-Dichloropropane | ND | | 0.00500 | 1 | 02/10/2020 22:56 | WG1425504 |
| 1,4-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 22:56 | WG1425504 |
| 2,2-Dichloropropane | ND | | 0.00250 | 1 | 02/10/2020 22:56 | WG1425504 |
| 2-Butanone (MEK) | 0.0472 | B | 0.0250 | 1 | 02/10/2020 22:56 | WG1425504 |
| 2-Chlorotoluene | ND | | 0.00250 | 1 | 02/10/2020 22:56 | WG1425504 |
| 4-Chlorotoluene | ND | J4 | 0.00500 | 1 | 02/10/2020 22:56 | WG1425504 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0250 | 1 | 02/10/2020 22:56 | WG1425504 |
| Acetone | ND | | 0.0250 | 1 | 02/10/2020 22:56 | WG1425504 |
| Acrylonitrile | ND | | 0.0125 | 1 | 02/10/2020 22:56 | WG1425504 |
| Benzene | ND | | 0.00100 | 1 | 02/10/2020 22:56 | WG1425504 |
| Bromobenzene | ND | | 0.0125 | 1 | 02/10/2020 22:56 | WG1425504 |
| Bromodichloromethane | ND | | 0.00250 | 1 | 02/10/2020 22:56 | WG1425504 |
| Bromoform | ND | | 0.0250 | 1 | 02/10/2020 22:56 | WG1425504 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Bromomethane | ND | | 0.0125 | 1 | 02/10/2020 22:56 | WG1425504 |
| Carbon tetrachloride | ND | | 0.00500 | 1 | 02/10/2020 22:56 | WG1425504 |
| Chlorobenzene | ND | | 0.00250 | 1 | 02/10/2020 22:56 | WG1425504 |
| Chlorodibromomethane | ND | | 0.00250 | 1 | 02/10/2020 22:56 | WG1425504 |
| Chloroethane | ND | | 0.00500 | 1 | 02/10/2020 22:56 | WG1425504 |
| Chloroform | ND | | 0.00250 | 1 | 02/10/2020 22:56 | WG1425504 |
| Chloromethane | ND | | 0.0125 | 1 | 02/10/2020 22:56 | WG1425504 |
| Dibromomethane | ND | | 0.00500 | 1 | 02/10/2020 22:56 | WG1425504 |
| Dichlorodifluoromethane | ND | | 0.00250 | 1 | 02/10/2020 22:56 | WG1425504 |
| Di-isopropyl ether | ND | | 0.00100 | 1 | 02/10/2020 22:56 | WG1425504 |
| Ethylbenzene | ND | | 0.00250 | 1 | 02/10/2020 22:56 | WG1425504 |
| Hexachloro-1,3-butadiene | ND | | 0.0250 | 1 | 02/10/2020 22:56 | WG1425504 |
| Isopropylbenzene | ND | | 0.00250 | 1 | 02/10/2020 22:56 | WG1425504 |
| Methyl tert-butyl ether | ND | | 0.00100 | 1 | 02/10/2020 22:56 | WG1425504 |
| Methylene Chloride | ND | | 0.0250 | 1 | 02/10/2020 22:56 | WG1425504 |
| Naphthalene | ND | | 0.0125 | 1 | 02/10/2020 22:56 | WG1425504 |
| Styrene | ND | | 0.0125 | 1 | 02/10/2020 22:56 | WG1425504 |
| Tetrachloroethene | ND | | 0.00250 | 1 | 02/10/2020 22:56 | WG1425504 |
| Toluene | ND | | 0.00500 | 1 | 02/10/2020 22:56 | WG1425504 |
| Trichloroethene | ND | | 0.00100 | 1 | 02/10/2020 22:56 | WG1425504 |
| Trichlorofluoromethane | ND | | 0.00250 | 1 | 02/10/2020 22:56 | WG1425504 |
| Vinyl chloride | ND | | 0.00250 | 1 | 02/10/2020 22:56 | WG1425504 |
| Xylenes, Total | ND | | 0.00650 | 1 | 02/10/2020 22:56 | WG1425504 |
| cis-1,2-Dichloroethene | ND | | 0.00250 | 1 | 02/10/2020 22:56 | WG1425504 |
| trans-1,2-Dichloroethene | ND | | 0.00500 | 1 | 02/10/2020 22:56 | WG1425504 |
| n-Butylbenzene | ND | | 0.0125 | 1 | 02/10/2020 22:56 | WG1425504 |
| n-Propylbenzene | ND | | 0.00500 | 1 | 02/10/2020 22:56 | WG1425504 |
| p-Isopropyltoluene | ND | | 0.00500 | 1 | 02/10/2020 22:56 | WG1425504 |
| sec-Butylbenzene | ND | | 0.0125 | 1 | 02/10/2020 22:56 | WG1425504 |
| tert-Butylbenzene | ND | | 0.00500 | 1 | 02/10/2020 22:56 | WG1425504 |
| cis-1,3-Dichloropropene | ND | | 0.00250 | 1 | 02/10/2020 22:56 | WG1425504 |
| trans-1,3-Dichloropropene | ND | | 0.00500 | 1 | 02/10/2020 22:56 | WG1425504 |
| *(S) Toluene-d8* | *101* | | *75.0-131* | | *02/10/2020 22:56* | WG1425504 |
| *(S) 4-Bromofluorobenzene* | *87.9* | | *67.0-138* | | *02/10/2020 22:56* | WG1425504 |
| *(S) 1,2-Dichloroethane-d4* | *101* | | *70.0-130* | | *02/10/2020 22:56* | WG1425504 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| PCB 1016 | ND | | 0.0170 | 1 | 02/13/2020 17:12 | WG1426692 |
| PCB 1221 | ND | | 0.0170 | 1 | 02/13/2020 17:12 | WG1426692 |
| PCB 1232 | ND | | 0.0170 | 1 | 02/13/2020 17:12 | WG1426692 |
| PCB 1242 | ND | | 0.0170 | 1 | 02/13/2020 17:12 | WG1426692 |
| PCB 1248 | ND | | 0.0170 | 1 | 02/13/2020 17:12 | WG1426692 |
| PCB 1254 | ND | | 0.0170 | 1 | 02/13/2020 17:12 | WG1426692 |
| PCB 1260 | ND | | 0.0170 | 1 | 02/13/2020 17:12 | WG1426692 |
| *(S) Decachlorobiphenyl* | *92.2* | | *10.0-135* | | *02/13/2020 17:12* | WG1426692 |
| *(S) Tetrachloro-m-xylene* | *91.1* | | *10.0-139* | | *02/13/2020 17:12* | WG1426692 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Anthracene | 0.0336 | | 0.00600 | 1 | 02/13/2020 15:02 | WG1426291 |
| Acenaphthene | 0.0172 | | 0.00600 | 1 | 02/13/2020 15:02 | WG1426291 |
| Acenaphthylene | ND | | 0.00600 | 1 | 02/13/2020 15:02 | WG1426291 |
| Benzo(a)anthracene | 0.256 | | 0.00600 | 1 | 02/13/2020 15:02 | WG1426291 |
| Benzo(a)pyrene | 0.297 | | 0.00600 | 1 | 02/13/2020 15:02 | WG1426291 |
| Benzo(b)fluoranthene | 0.542 | | 0.00600 | 1 | 02/13/2020 15:02 | WG1426291 |
| Benzo(g,h,i)perylene | 0.240 | | 0.00600 | 1 | 02/13/2020 15:02 | WG1426291 |
| Benzo(k)fluoranthene | 0.120 | | 0.00600 | 1 | 02/13/2020 15:02 | WG1426291 |
| Chrysene | 0.269 | | 0.00600 | 1 | 02/13/2020 15:02 | WG1426291 |
| Dibenz(a,h)anthracene | 0.0596 | | 0.00600 | 1 | 02/13/2020 15:02 | WG1426291 |
| Fluoranthene | 0.774 | | 0.00600 | 1 | 02/13/2020 15:02 | WG1426291 |
| Fluorene | 0.0139 | | 0.00600 | 1 | 02/13/2020 15:02 | WG1426291 |
| Indeno(1,2,3-cd)pyrene | 0.202 | | 0.00600 | 1 | 02/13/2020 15:02 | WG1426291 |
| Naphthalene | ND | | 0.0200 | 1 | 02/13/2020 15:02 | WG1426291 |
| Phenanthrene | 0.328 | | 0.00600 | 1 | 02/13/2020 15:02 | WG1426291 |
| Pyrene | 0.582 | | 0.00600 | 1 | 02/13/2020 15:02 | WG1426291 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 15:02 | WG1426291 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 15:02 | WG1426291 |
| 2-Chloronaphthalene | ND | | 0.0200 | 1 | 02/13/2020 15:02 | WG1426291 |
| *(S) p-Terphenyl-d14* | *75.8* | | *23.0-120* | | *02/13/2020 15:02* | WG1426291 |
| *(S) Nitrobenzene-d5* | *94.5* | | *14.0-149* | | *02/13/2020 15:02* | WG1426291 |
| *(S) 2-Fluorobiphenyl* | *70.4* | | *34.0-125* | | *02/13/2020 15:02* | WG1426291 |

## Total Solids by Method 2540 G-2011

| Analyte | Result % | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| Total Solids | 77.1 | | 1 | 02/12/2020 22:52 | WG1426171 |

## Mercury by Method 7471A

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Mercury | 0.0346 | | 0.0300 | 1 | 02/11/2020 20:56 | WG1425892 |

## Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Arsenic | 7.09 | | 2.00 | 1 | 02/11/2020 16:15 | WG1425657 |
| Barium | 165 | | 0.500 | 1 | 02/11/2020 16:15 | WG1425657 |
| Cadmium | ND | | 0.500 | 1 | 02/11/2020 16:15 | WG1425657 |
| Chromium | 10.0 | | 1.00 | 1 | 02/11/2020 16:15 | WG1425657 |
| Lead | 8.96 | | 0.500 | 1 | 02/11/2020 16:15 | WG1425657 |
| Selenium | ND | | 2.00 | 1 | 02/11/2020 16:15 | WG1425657 |
| Silver | ND | | 1.00 | 1 | 02/11/2020 16:15 | WG1425657 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | J4 | 0.00250 | 1 | 02/10/2020 23:15 | WG1425504 |
| 1,1,1-Trichloroethane | ND | | 0.00250 | 1 | 02/10/2020 23:15 | WG1425504 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/10/2020 23:15 | WG1425504 |
| 1,1,2-Trichloroethane | ND | | 0.00250 | 1 | 02/10/2020 23:15 | WG1425504 |
| 1,1,2-Trichlorotrifluoroethane | ND | | 0.00250 | 1 | 02/10/2020 23:15 | WG1425504 |
| 1,1-Dichloroethane | ND | | 0.00250 | 1 | 02/10/2020 23:15 | WG1425504 |
| 1,1-Dichloroethene | ND | | 0.00250 | 1 | 02/10/2020 23:15 | WG1425504 |
| 1,1-Dichloropropene | ND | | 0.00250 | 1 | 02/10/2020 23:15 | WG1425504 |
| 1,2,3-Trichlorobenzene | ND | | 0.0125 | 1 | 02/10/2020 23:15 | WG1425504 |
| 1,2,3-Trichloropropane | ND | | 0.0125 | 1 | 02/10/2020 23:15 | WG1425504 |
| 1,2,3-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 23:15 | WG1425504 |
| 1,2,4-Trichlorobenzene | ND | | 0.0125 | 1 | 02/10/2020 23:15 | WG1425504 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 23:15 | WG1425504 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0250 | 1 | 02/10/2020 23:15 | WG1425504 |
| 1,2-Dibromoethane | ND | | 0.00250 | 1 | 02/10/2020 23:15 | WG1425504 |
| 1,2-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 23:15 | WG1425504 |
| 1,2-Dichloroethane | ND | | 0.00250 | 1 | 02/10/2020 23:15 | WG1425504 |
| 1,2-Dichloropropane | ND | | 0.00500 | 1 | 02/10/2020 23:15 | WG1425504 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 23:15 | WG1425504 |
| 1,3-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 23:15 | WG1425504 |
| 1,3-Dichloropropane | ND | | 0.00500 | 1 | 02/10/2020 23:15 | WG1425504 |
| 1,4-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 23:15 | WG1425504 |
| 2,2-Dichloropropane | ND | | 0.00250 | 1 | 02/10/2020 23:15 | WG1425504 |
| 2-Butanone (MEK) | ND | | 0.0250 | 1 | 02/10/2020 23:15 | WG1425504 |
| 2-Chlorotoluene | ND | | 0.00250 | 1 | 02/10/2020 23:15 | WG1425504 |
| 4-Chlorotoluene | ND | J4 | 0.00500 | 1 | 02/10/2020 23:15 | WG1425504 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0250 | 1 | 02/10/2020 23:15 | WG1425504 |
| Acetone | ND | | 0.0250 | 1 | 02/10/2020 23:15 | WG1425504 |
| Acrylonitrile | ND | | 0.0125 | 1 | 02/10/2020 23:15 | WG1425504 |
| Benzene | ND | | 0.00100 | 1 | 02/10/2020 23:15 | WG1425504 |
| Bromobenzene | ND | | 0.0125 | 1 | 02/10/2020 23:15 | WG1425504 |
| Bromodichloromethane | ND | | 0.00250 | 1 | 02/10/2020 23:15 | WG1425504 |
| Bromoform | ND | | 0.0250 | 1 | 02/10/2020 23:15 | WG1425504 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Bromomethane | ND | | 0.0125 | 1 | 02/10/2020 23:15 | WG1425504 |
| Carbon tetrachloride | ND | | 0.00500 | 1 | 02/10/2020 23:15 | WG1425504 |
| Chlorobenzene | ND | | 0.00250 | 1 | 02/10/2020 23:15 | WG1425504 |
| Chlorodibromomethane | ND | | 0.00250 | 1 | 02/10/2020 23:15 | WG1425504 |
| Chloroethane | ND | | 0.00500 | 1 | 02/10/2020 23:15 | WG1425504 |
| Chloroform | ND | | 0.00250 | 1 | 02/10/2020 23:15 | WG1425504 |
| Chloromethane | ND | | 0.0125 | 1 | 02/10/2020 23:15 | WG1425504 |
| Dibromomethane | ND | | 0.00500 | 1 | 02/10/2020 23:15 | WG1425504 |
| Dichlorodifluoromethane | ND | | 0.00250 | 1 | 02/10/2020 23:15 | WG1425504 |
| Di-isopropyl ether | ND | | 0.00100 | 1 | 02/10/2020 23:15 | WG1425504 |
| Ethylbenzene | ND | | 0.00250 | 1 | 02/10/2020 23:15 | WG1425504 |
| Hexachloro-1,3-butadiene | ND | | 0.0250 | 1 | 02/10/2020 23:15 | WG1425504 |
| Isopropylbenzene | ND | | 0.00250 | 1 | 02/10/2020 23:15 | WG1425504 |
| Methyl tert-butyl ether | ND | | 0.00100 | 1 | 02/10/2020 23:15 | WG1425504 |
| Methylene Chloride | ND | | 0.0250 | 1 | 02/10/2020 23:15 | WG1425504 |
| Naphthalene | ND | | 0.0125 | 1 | 02/10/2020 23:15 | WG1425504 |
| Styrene | ND | | 0.0125 | 1 | 02/10/2020 23:15 | WG1425504 |
| Tetrachloroethene | ND | | 0.00250 | 1 | 02/10/2020 23:15 | WG1425504 |
| Toluene | ND | | 0.00500 | 1 | 02/10/2020 23:15 | WG1425504 |
| Trichloroethene | ND | | 0.00100 | 1 | 02/10/2020 23:15 | WG1425504 |
| Trichlorofluoromethane | ND | | 0.00250 | 1 | 02/10/2020 23:15 | WG1425504 |
| Vinyl chloride | ND | | 0.00250 | 1 | 02/10/2020 23:15 | WG1425504 |
| Xylenes, Total | ND | | 0.00650 | 1 | 02/10/2020 23:15 | WG1425504 |
| cis-1,2-Dichloroethene | ND | | 0.00250 | 1 | 02/10/2020 23:15 | WG1425504 |
| trans-1,2-Dichloroethene | ND | | 0.00500 | 1 | 02/10/2020 23:15 | WG1425504 |
| n-Butylbenzene | ND | | 0.0125 | 1 | 02/10/2020 23:15 | WG1425504 |
| n-Propylbenzene | ND | | 0.00500 | 1 | 02/10/2020 23:15 | WG1425504 |
| p-Isopropyltoluene | ND | | 0.00500 | 1 | 02/10/2020 23:15 | WG1425504 |
| sec-Butylbenzene | ND | | 0.0125 | 1 | 02/10/2020 23:15 | WG1425504 |
| tert-Butylbenzene | ND | | 0.00500 | 1 | 02/10/2020 23:15 | WG1425504 |
| cis-1,3-Dichloropropene | ND | | 0.00250 | 1 | 02/10/2020 23:15 | WG1425504 |
| trans-1,3-Dichloropropene | ND | | 0.00500 | 1 | 02/10/2020 23:15 | WG1425504 |
| *(S) Toluene-d8* | *101* | | *75.0-131* | | *02/10/2020 23:15* | WG1425504 |
| *(S) 4-Bromofluorobenzene* | *87.8* | | *67.0-138* | | *02/10/2020 23:15* | WG1425504 |
| *(S) 1,2-Dichloroethane-d4* | *99.4* | | *70.0-130* | | *02/10/2020 23:15* | WG1425504 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| PCB 1016 | ND | | 0.0170 | 1 | 02/13/2020 17:25 | WG1426692 |
| PCB 1221 | ND | | 0.0170 | 1 | 02/13/2020 17:25 | WG1426692 |
| PCB 1232 | ND | | 0.0170 | 1 | 02/13/2020 17:25 | WG1426692 |
| PCB 1242 | ND | | 0.0170 | 1 | 02/13/2020 17:25 | WG1426692 |
| PCB 1248 | ND | | 0.0170 | 1 | 02/13/2020 17:25 | WG1426692 |
| PCB 1254 | ND | | 0.0170 | 1 | 02/13/2020 17:25 | WG1426692 |
| PCB 1260 | ND | | 0.0170 | 1 | 02/13/2020 17:25 | WG1426692 |
| *(S) Decachlorobiphenyl* | *114* | | *10.0-135* | | *02/13/2020 17:25* | WG1426692 |
| *(S) Tetrachloro-m-xylene* | *104* | | *10.0-139* | | *02/13/2020 17:25* | WG1426692 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Anthracene | ND | | 0.00600 | 1 | 02/13/2020 15:25 | WG1426291 |
| Acenaphthene | ND | | 0.00600 | 1 | 02/13/2020 15:25 | WG1426291 |
| Acenaphthylene | ND | | 0.00600 | 1 | 02/13/2020 15:25 | WG1426291 |
| Benzo(a)anthracene | ND | | 0.00600 | 1 | 02/13/2020 15:25 | WG1426291 |
| Benzo(a)pyrene | ND | | 0.00600 | 1 | 02/13/2020 15:25 | WG1426291 |
| Benzo(b)fluoranthene | ND | | 0.00600 | 1 | 02/13/2020 15:25 | WG1426291 |
| Benzo(g,h,i)perylene | ND | | 0.00600 | 1 | 02/13/2020 15:25 | WG1426291 |
| Benzo(k)fluoranthene | ND | | 0.00600 | 1 | 02/13/2020 15:25 | WG1426291 |
| Chrysene | ND | | 0.00600 | 1 | 02/13/2020 15:25 | WG1426291 |
| Dibenz(a,h)anthracene | ND | | 0.00600 | 1 | 02/13/2020 15:25 | WG1426291 |
| Fluoranthene | ND | | 0.00600 | 1 | 02/13/2020 15:25 | WG1426291 |
| Fluorene | ND | | 0.00600 | 1 | 02/13/2020 15:25 | WG1426291 |
| Indeno(1,2,3-cd)pyrene | ND | | 0.00600 | 1 | 02/13/2020 15:25 | WG1426291 |
| Naphthalene | ND | | 0.0200 | 1 | 02/13/2020 15:25 | WG1426291 |
| Phenanthrene | ND | | 0.00600 | 1 | 02/13/2020 15:25 | WG1426291 |
| Pyrene | ND | | 0.00600 | 1 | 02/13/2020 15:25 | WG1426291 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 15:25 | WG1426291 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 15:25 | WG1426291 |
| 2-Chloronaphthalene | ND | | 0.0200 | 1 | 02/13/2020 15:25 | WG1426291 |
| *(S) p-Terphenyl-d14* | *60.6* | | *23.0-120* | | *02/13/2020 15:25* | WG1426291 |
| *(S) Nitrobenzene-d5* | *89.2* | | *14.0-149* | | *02/13/2020 15:25* | WG1426291 |
| *(S) 2-Fluorobiphenyl* | *68.5* | | *34.0-125* | | *02/13/2020 15:25* | WG1426291 |

## Total Solids by Method 2540 G-2011

| Analyte | Result % | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| Total Solids | 76.8 | | 1 | 02/12/2020 22:52 | WG1426171 |

## Mercury by Method 7471A

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0300 | 1 | 02/11/2020 20:59 | WG1425892 |

## Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Arsenic | 3.03 | | 2.00 | 1 | 02/11/2020 16:17 | WG1425657 |
| Barium | 112 | | 0.500 | 1 | 02/11/2020 16:17 | WG1425657 |
| Cadmium | ND | | 0.500 | 1 | 02/11/2020 16:17 | WG1425657 |
| Chromium | 10.8 | | 1.00 | 1 | 02/11/2020 16:17 | WG1425657 |
| Lead | 6.15 | | 0.500 | 1 | 02/11/2020 16:17 | WG1425657 |
| Selenium | ND | | 2.00 | 1 | 02/11/2020 16:17 | WG1425657 |
| Silver | ND | | 1.00 | 1 | 02/11/2020 16:17 | WG1425657 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | J4 | 0.00250 | 1 | 02/10/2020 23:34 | WG1425504 |
| 1,1,1-Trichloroethane | ND | | 0.00250 | 1 | 02/10/2020 23:34 | WG1425504 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/10/2020 23:34 | WG1425504 |
| 1,1,2-Trichloroethane | ND | | 0.00250 | 1 | 02/10/2020 23:34 | WG1425504 |
| 1,1,2-Trichlorotrifluoroethane | ND | | 0.00250 | 1 | 02/10/2020 23:34 | WG1425504 |
| 1,1-Dichloroethane | ND | | 0.00250 | 1 | 02/10/2020 23:34 | WG1425504 |
| 1,1-Dichloroethene | ND | | 0.00250 | 1 | 02/10/2020 23:34 | WG1425504 |
| 1,1-Dichloropropene | ND | | 0.00250 | 1 | 02/10/2020 23:34 | WG1425504 |
| 1,2,3-Trichlorobenzene | ND | | 0.0125 | 1 | 02/10/2020 23:34 | WG1425504 |
| 1,2,3-Trichloropropane | ND | | 0.0125 | 1 | 02/10/2020 23:34 | WG1425504 |
| 1,2,3-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 23:34 | WG1425504 |
| 1,2,4-Trichlorobenzene | ND | | 0.0125 | 1 | 02/10/2020 23:34 | WG1425504 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 23:34 | WG1425504 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0250 | 1 | 02/10/2020 23:34 | WG1425504 |
| 1,2-Dibromoethane | ND | | 0.00250 | 1 | 02/10/2020 23:34 | WG1425504 |
| 1,2-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 23:34 | WG1425504 |
| 1,2-Dichloroethane | ND | | 0.00250 | 1 | 02/10/2020 23:34 | WG1425504 |
| 1,2-Dichloropropane | ND | | 0.00500 | 1 | 02/10/2020 23:34 | WG1425504 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 02/10/2020 23:34 | WG1425504 |
| 1,3-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 23:34 | WG1425504 |
| 1,3-Dichloropropane | ND | | 0.00500 | 1 | 02/10/2020 23:34 | WG1425504 |
| 1,4-Dichlorobenzene | ND | | 0.00500 | 1 | 02/10/2020 23:34 | WG1425504 |
| 2,2-Dichloropropane | ND | | 0.00250 | 1 | 02/10/2020 23:34 | WG1425504 |
| 2-Butanone (MEK) | ND | | 0.0250 | 1 | 02/10/2020 23:34 | WG1425504 |
| 2-Chlorotoluene | ND | | 0.00250 | 1 | 02/10/2020 23:34 | WG1425504 |
| 4-Chlorotoluene | ND | J4 | 0.00500 | 1 | 02/10/2020 23:34 | WG1425504 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0250 | 1 | 02/10/2020 23:34 | WG1425504 |
| Acetone | ND | | 0.0250 | 1 | 02/10/2020 23:34 | WG1425504 |
| Acrylonitrile | ND | | 0.0125 | 1 | 02/10/2020 23:34 | WG1425504 |
| Benzene | ND | | 0.00100 | 1 | 02/10/2020 23:34 | WG1425504 |
| Bromobenzene | ND | | 0.0125 | 1 | 02/10/2020 23:34 | WG1425504 |
| Bromodichloromethane | ND | | 0.00250 | 1 | 02/10/2020 23:34 | WG1425504 |
| Bromoform | ND | | 0.0250 | 1 | 02/10/2020 23:34 | WG1425504 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Bromomethane | ND | | 0.0125 | 1 | 02/10/2020 23:34 | WG1425504 |
| Carbon tetrachloride | ND | | 0.00500 | 1 | 02/10/2020 23:34 | WG1425504 |
| Chlorobenzene | ND | | 0.00250 | 1 | 02/10/2020 23:34 | WG1425504 |
| Chlorodibromomethane | ND | | 0.00250 | 1 | 02/10/2020 23:34 | WG1425504 |
| Chloroethane | ND | | 0.00500 | 1 | 02/10/2020 23:34 | WG1425504 |
| Chloroform | ND | | 0.00250 | 1 | 02/10/2020 23:34 | WG1425504 |
| Chloromethane | ND | | 0.0125 | 1 | 02/10/2020 23:34 | WG1425504 |
| Dibromomethane | ND | | 0.00500 | 1 | 02/10/2020 23:34 | WG1425504 |
| Dichlorodifluoromethane | ND | | 0.00250 | 1 | 02/10/2020 23:34 | WG1425504 |
| Di-isopropyl ether | ND | | 0.00100 | 1 | 02/10/2020 23:34 | WG1425504 |
| Ethylbenzene | ND | | 0.00250 | 1 | 02/10/2020 23:34 | WG1425504 |
| Hexachloro-1,3-butadiene | ND | | 0.0250 | 1 | 02/10/2020 23:34 | WG1425504 |
| Isopropylbenzene | ND | | 0.00250 | 1 | 02/10/2020 23:34 | WG1425504 |
| Methyl tert-butyl ether | ND | | 0.00100 | 1 | 02/10/2020 23:34 | WG1425504 |
| Methylene Chloride | ND | | 0.0250 | 1 | 02/10/2020 23:34 | WG1425504 |
| Naphthalene | ND | | 0.0125 | 1 | 02/10/2020 23:34 | WG1425504 |
| Styrene | ND | | 0.0125 | 1 | 02/10/2020 23:34 | WG1425504 |
| Tetrachloroethene | ND | | 0.00250 | 1 | 02/10/2020 23:34 | WG1425504 |
| Toluene | ND | | 0.00500 | 1 | 02/10/2020 23:34 | WG1425504 |
| Trichloroethene | ND | | 0.00100 | 1 | 02/10/2020 23:34 | WG1425504 |
| Trichlorofluoromethane | ND | | 0.00250 | 1 | 02/10/2020 23:34 | WG1425504 |
| Vinyl chloride | ND | | 0.00250 | 1 | 02/10/2020 23:34 | WG1425504 |
| Xylenes, Total | ND | | 0.00650 | 1 | 02/10/2020 23:34 | WG1425504 |
| cis-1,2-Dichloroethene | ND | | 0.00250 | 1 | 02/10/2020 23:34 | WG1425504 |
| trans-1,2-Dichloroethene | ND | | 0.00500 | 1 | 02/10/2020 23:34 | WG1425504 |
| n-Butylbenzene | ND | | 0.0125 | 1 | 02/10/2020 23:34 | WG1425504 |
| n-Propylbenzene | ND | | 0.00500 | 1 | 02/10/2020 23:34 | WG1425504 |
| p-Isopropyltoluene | ND | | 0.00500 | 1 | 02/10/2020 23:34 | WG1425504 |
| sec-Butylbenzene | ND | | 0.0125 | 1 | 02/10/2020 23:34 | WG1425504 |
| tert-Butylbenzene | ND | | 0.00500 | 1 | 02/10/2020 23:34 | WG1425504 |
| cis-1,3-Dichloropropene | ND | | 0.00250 | 1 | 02/10/2020 23:34 | WG1425504 |
| trans-1,3-Dichloropropene | ND | | 0.00500 | 1 | 02/10/2020 23:34 | WG1425504 |
| *(S) Toluene-d8* | *99.7* | | *75.0-131* | | *02/10/2020 23:34* | WG1425504 |
| *(S) 4-Bromofluorobenzene* | *84.9* | | *67.0-138* | | *02/10/2020 23:34* | WG1425504 |
| *(S) 1,2-Dichloroethane-d4* | *97.2* | | *70.0-130* | | *02/10/2020 23:34* | WG1425504 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| PCB 1016 | ND | | 0.0170 | 1 | 02/13/2020 17:39 | WG1426692 |
| PCB 1221 | ND | | 0.0170 | 1 | 02/13/2020 17:39 | WG1426692 |
| PCB 1232 | ND | | 0.0170 | 1 | 02/13/2020 17:39 | WG1426692 |
| PCB 1242 | ND | | 0.0170 | 1 | 02/13/2020 17:39 | WG1426692 |
| PCB 1248 | ND | | 0.0170 | 1 | 02/13/2020 17:39 | WG1426692 |
| PCB 1254 | ND | | 0.0170 | 1 | 02/13/2020 17:39 | WG1426692 |
| PCB 1260 | ND | | 0.0170 | 1 | 02/13/2020 17:39 | WG1426692 |
| *(S) Decachlorobiphenyl* | *145* | J1 | *10.0-135* | | *02/13/2020 17:39* | WG1426692 |
| *(S) Tetrachloro-m-xylene* | *126* | | *10.0-139* | | *02/13/2020 17:39* | WG1426692 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Anthracene | ND | | 0.00600 | 1 | 02/13/2020 15:48 | WG1426291 |
| Acenaphthene | ND | | 0.00600 | 1 | 02/13/2020 15:48 | WG1426291 |
| Acenaphthylene | ND | | 0.00600 | 1 | 02/13/2020 15:48 | WG1426291 |
| Benzo(a)anthracene | ND | | 0.00600 | 1 | 02/13/2020 15:48 | WG1426291 |
| Benzo(a)pyrene | ND | | 0.00600 | 1 | 02/13/2020 15:48 | WG1426291 |
| Benzo(b)fluoranthene | ND | | 0.00600 | 1 | 02/13/2020 15:48 | WG1426291 |
| Benzo(g,h,i)perylene | ND | | 0.00600 | 1 | 02/13/2020 15:48 | WG1426291 |
| Benzo(k)fluoranthene | ND | | 0.00600 | 1 | 02/13/2020 15:48 | WG1426291 |
| Chrysene | ND | | 0.00600 | 1 | 02/13/2020 15:48 | WG1426291 |
| Dibenz(a,h)anthracene | ND | | 0.00600 | 1 | 02/13/2020 15:48 | WG1426291 |
| Fluoranthene | ND | | 0.00600 | 1 | 02/13/2020 15:48 | WG1426291 |
| Fluorene | ND | | 0.00600 | 1 | 02/13/2020 15:48 | WG1426291 |
| Indeno(1,2,3-cd)pyrene | ND | | 0.00600 | 1 | 02/13/2020 15:48 | WG1426291 |
| Naphthalene | ND | | 0.0200 | 1 | 02/13/2020 15:48 | WG1426291 |
| Phenanthrene | ND | | 0.00600 | 1 | 02/13/2020 15:48 | WG1426291 |
| Pyrene | ND | | 0.00600 | 1 | 02/13/2020 15:48 | WG1426291 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 15:48 | WG1426291 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 15:48 | WG1426291 |
| 2-Chloronaphthalene | ND | | 0.0200 | 1 | 02/13/2020 15:48 | WG1426291 |
| *(S) p-Terphenyl-d14* | *60.3* | | *23.0-120* | | *02/13/2020 15:48* | WG1426291 |
| *(S) Nitrobenzene-d5* | *92.9* | | *14.0-149* | | *02/13/2020 15:48* | WG1426291 |
| *(S) 2-Fluorobiphenyl* | *71.3* | | *34.0-125* | | *02/13/2020 15:48* | WG1426291 |

## Method Blank (MB)

(MB) R3499561-1 02/12/20 17:09

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000 | | | |

## L1187972-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1187972-04 02/12/20 17:09 • (DUP) R3499561-3 02/12/20 17:09

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 82.6 | 85.4 | 1 | 3.32 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R3499561-2 02/12/20 17:09

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3499502-1 02/12/20 22:52

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L1187543-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1187543-02 02/12/20 22:52 • (DUP) R3499502-3 02/12/20 22:52

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 84.5 | 89.6 | 1 | 5.84 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R3499502-2 02/12/20 22:52

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Method Blank (MB)

(MB) R3498936-1 02/11/20 20:08

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.00280 | 0.0300 |

## Laboratory Control Sample (LCS)

(LCS) R3498936-2 02/11/20 20:11

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.542 | 108 | 80.0-120 | |

## L1187789-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1187789-01 02/11/20 20:13 • (MS) R3498936-3 02/11/20 20:16 • (MSD) R3498936-4 02/11/20 20:18

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.585 | ND | 0.711 | 0.694 | 120 | 117 | 1 | 75.0-125 | | | 2.43 | 20 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Method Blank (MB)

(MB) R3498966-1 02/11/20 15:31

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Arsenic | U | | 0.460 | 2.00 |
| Barium | U | | 0.170 | 0.500 |
| Cadmium | U | | 0.0700 | 0.500 |
| Chromium | U | | 0.140 | 1.00 |
| Lead | U | | 0.190 | 0.500 |
| Selenium | U | | 0.620 | 2.00 |
| Silver | U | | 0.120 | 1.00 |

## Laboratory Control Sample (LCS)

(LCS) R3498966-2 02/11/20 15:33

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Arsenic | 100 | 94.8 | 94.8 | 80.0-120 | |
| Barium | 100 | 97.9 | 97.9 | 80.0-120 | |
| Cadmium | 100 | 95.9 | 95.9 | 80.0-120 | |
| Chromium | 100 | 94.1 | 94.1 | 80.0-120 | |
| Lead | 100 | 96.8 | 96.8 | 80.0-120 | |
| Selenium | 100 | 94.3 | 94.3 | 80.0-120 | |
| Silver | 20.0 | 17.6 | 88.2 | 80.0-120 | |

## L1187532-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1187532-04 02/11/20 15:36 • (MS) R3498966-5 02/11/20 15:44 • (MSD) R3498966-6 02/11/20 15:47

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 100 | 4.98 | 89.9 | 90.5 | 84.9 | 85.5 | 1 | 75.0-125 | | | 0.630 | 20 |
| Barium | 100 | 67.2 | 150 | 151 | 82.7 | 84.2 | 1 | 75.0-125 | | | 0.985 | 20 |
| Cadmium | 100 | ND | 86.4 | 87.2 | 86.2 | 87.0 | 1 | 75.0-125 | | | 0.916 | 20 |
| Chromium | 100 | 7.17 | 89.4 | 90.8 | 82.3 | 83.6 | 1 | 75.0-125 | | | 1.48 | 20 |
| Lead | 100 | 6.51 | 94.6 | 95.1 | 88.1 | 88.6 | 1 | 75.0-125 | | | 0.538 | 20 |
| Selenium | 100 | ND | 85.4 | 86.1 | 85.4 | 86.1 | 1 | 75.0-125 | | | 0.826 | 20 |
| Silver | 20.0 | ND | 15.5 | 15.6 | 77.3 | 78.0 | 1 | 75.0-125 | | | 0.939 | 20 |

## Method Blank (MB)

(MB) R3498637-2 02/10/20 19:26

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0137 | 0.0250 |
| Acrylonitrile | U | | 0.00190 | 0.0125 |
| Benzene | U | | 0.000400 | 0.00100 |
| Bromobenzene | U | | 0.00105 | 0.0125 |
| Bromodichloromethane | U | | 0.000788 | 0.00250 |
| Bromoform | U | | 0.00598 | 0.0250 |
| Bromomethane | U | | 0.00370 | 0.0125 |
| n-Butylbenzene | U | | 0.00384 | 0.0125 |
| sec-Butylbenzene | U | | 0.00253 | 0.0125 |
| tert-Butylbenzene | U | | 0.00155 | 0.00500 |
| Carbon tetrachloride | U | | 0.00108 | 0.00500 |
| Chlorobenzene | U | | 0.000573 | 0.00250 |
| Chlorodibromomethane | U | | 0.000450 | 0.00250 |
| Chloroethane | U | | 0.00108 | 0.00500 |
| Chloroform | 0.00100 | J | 0.000415 | 0.00250 |
| Chloromethane | U | | 0.00139 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000920 | 0.00250 |
| 4-Chlorotoluene | U | | 0.00113 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00510 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000525 | 0.00250 |
| Dibromomethane | U | | 0.00100 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.00145 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.00170 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.00197 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.000818 | 0.00250 |
| 1,1-Dichloroethane | U | | 0.000575 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000475 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000500 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000690 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00143 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00127 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000700 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.00175 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000678 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00153 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.000793 | 0.00250 |
| Di-isopropyl ether | U | | 0.000350 | 0.00100 |
| Ethylbenzene | U | | 0.000530 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.0127 | 0.0250 |
| Isopropylbenzene | U | | 0.000863 | 0.00250 |

## Method Blank (MB)

(MB) R3498637-2 02/10/20 19:26

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00233 | 0.00500 |
| 2-Butanone (MEK) | 0.0223 | J | 0.0125 | 0.0250 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0100 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000295 | 0.00100 |
| Naphthalene | U | | 0.00312 | 0.0125 |
| n-Propylbenzene | U | | 0.00118 | 0.00500 |
| Styrene | U | | 0.00273 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000500 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000390 | 0.00250 |
| Tetrachloroethene | U | | 0.000700 | 0.00250 |
| Toluene | U | | 0.00125 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000675 | 0.00250 |
| 1,2,3-Trichlorobenzene | U | | 0.000625 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00482 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000275 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000883 | 0.00250 |
| Trichloroethene | U | | 0.000400 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000500 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00510 | 0.0125 |
| 1,2,3-Trimethylbenzene | U | | 0.00115 | 0.00500 |
| 1,2,4-Trimethylbenzene | U | | 0.00116 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00108 | 0.00500 |
| Vinyl chloride | U | | 0.000683 | 0.00250 |
| Xylenes, Total | U | | 0.00478 | 0.00650 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *86.7* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *94.9* | | | *70.0-130* |

## Laboratory Control Sample (LCS)

(LCS) R3498637-1 02/10/20 18:30

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acetone | 0.625 | 0.550 | 88.0 | 10.0-160 | |
| Acrylonitrile | 0.625 | 0.552 | 88.3 | 45.0-153 | |
| Benzene | 0.125 | 0.116 | 92.8 | 70.0-123 | |
| Bromobenzene | 0.125 | 0.135 | 108 | 73.0-121 | |
| Bromodichloromethane | 0.125 | 0.126 | 101 | 73.0-121 | |

## Laboratory Control Sample (LCS)

(LCS) R3498637-1 02/10/20 18:30

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.110 | 88.0 | 64.0-132 | |
| Bromomethane | 0.125 | 0.120 | 96.0 | 56.0-147 | |
| n-Butylbenzene | 0.125 | 0.128 | 102 | 68.0-135 | |
| sec-Butylbenzene | 0.125 | 0.126 | 101 | 74.0-130 | |
| tert-Butylbenzene | 0.125 | 0.127 | 102 | 75.0-127 | |
| Carbon tetrachloride | 0.125 | 0.118 | 94.4 | 66.0-128 | |
| Chlorobenzene | 0.125 | 0.131 | 105 | 76.0-128 | |
| Chlorodibromomethane | 0.125 | 0.108 | 86.4 | 74.0-127 | |
| Chloroethane | 0.125 | 0.103 | 82.4 | 61.0-134 | |
| Chloroform | 0.125 | 0.0965 | 77.2 | 72.0-123 | |
| Chloromethane | 0.125 | 0.103 | 82.4 | 51.0-138 | |
| 2-Chlorotoluene | 0.125 | 0.137 | 110 | 75.0-124 | |
| 4-Chlorotoluene | 0.125 | 0.156 | 125 | 75.0-124 | J4 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.110 | 88.0 | 59.0-130 | |
| 1,2-Dibromoethane | 0.125 | 0.114 | 91.2 | 74.0-128 | |
| Dibromomethane | 0.125 | 0.124 | 99.2 | 75.0-122 | |
| 1,2-Dichlorobenzene | 0.125 | 0.108 | 86.4 | 76.0-124 | |
| 1,3-Dichlorobenzene | 0.125 | 0.135 | 108 | 76.0-125 | |
| 1,4-Dichlorobenzene | 0.125 | 0.120 | 96.0 | 77.0-121 | |
| Dichlorodifluoromethane | 0.125 | 0.123 | 98.4 | 43.0-156 | |
| 1,1-Dichloroethane | 0.125 | 0.112 | 89.6 | 70.0-127 | |
| 1,2-Dichloroethane | 0.125 | 0.127 | 102 | 65.0-131 | |
| 1,1-Dichloroethene | 0.125 | 0.117 | 93.6 | 65.0-131 | |
| cis-1,2-Dichloroethene | 0.125 | 0.0993 | 79.4 | 73.0-125 | |
| trans-1,2-Dichloroethene | 0.125 | 0.103 | 82.4 | 71.0-125 | |
| 1,2-Dichloropropane | 0.125 | 0.139 | 111 | 74.0-125 | |
| 1,1-Dichloropropene | 0.125 | 0.118 | 94.4 | 73.0-125 | |
| 1,3-Dichloropropane | 0.125 | 0.129 | 103 | 80.0-125 | |
| cis-1,3-Dichloropropene | 0.125 | 0.138 | 110 | 76.0-127 | |
| trans-1,3-Dichloropropene | 0.125 | 0.137 | 110 | 73.0-127 | |
| 2,2-Dichloropropane | 0.125 | 0.106 | 84.8 | 59.0-135 | |
| Di-isopropyl ether | 0.125 | 0.0843 | 67.4 | 60.0-136 | |
| Ethylbenzene | 0.125 | 0.113 | 90.4 | 74.0-126 | |
| Hexachloro-1,3-butadiene | 0.125 | 0.0822 | 65.8 | 57.0-150 | |
| Isopropylbenzene | 0.125 | 0.101 | 80.8 | 72.0-127 | |
| p-Isopropyltoluene | 0.125 | 0.121 | 96.8 | 72.0-133 | |
| 2-Butanone (MEK) | 0.625 | 0.596 | 95.4 | 30.0-160 | |
| Methylene Chloride | 0.125 | 0.119 | 95.2 | 68.0-123 | |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.553 | 88.5 | 56.0-143 | |
| Methyl tert-butyl ether | 0.125 | 0.0926 | 74.1 | 66.0-132 | |

## Laboratory Control Sample (LCS)

(LCS) R3498637-1 02/10/20 18:30

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.0884 | 70.7 | 59.0-130 | |
| n-Propylbenzene | 0.125 | 0.143 | 114 | 74.0-126 | |
| Styrene | 0.125 | 0.114 | 91.2 | 72.0-127 | |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.0842 | 67.4 | 74.0-129 | J4 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.127 | 102 | 68.0-128 | |
| Tetrachloroethene | 0.125 | 0.107 | 85.6 | 70.0-136 | |
| Toluene | 0.125 | 0.124 | 99.2 | 75.0-121 | |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.114 | 91.2 | 61.0-139 | |
| 1,2,3-Trichlorobenzene | 0.125 | 0.0793 | 63.4 | 59.0-139 | |
| 1,2,4-Trichlorobenzene | 0.125 | 0.0956 | 76.5 | 62.0-137 | |
| 1,1,1-Trichloroethane | 0.125 | 0.102 | 81.6 | 69.0-126 | |
| 1,1,2-Trichloroethane | 0.125 | 0.107 | 85.6 | 78.0-123 | |
| Trichloroethene | 0.125 | 0.119 | 95.2 | 76.0-126 | |
| Trichlorofluoromethane | 0.125 | 0.0893 | 71.4 | 61.0-142 | |
| 1,2,3-Trichloropropane | 0.125 | 0.153 | 122 | 67.0-129 | |
| 1,2,3-Trimethylbenzene | 0.125 | 0.0978 | 78.2 | 74.0-124 | |
| 1,2,4-Trimethylbenzene | 0.125 | 0.123 | 98.4 | 70.0-126 | |
| 1,3,5-Trimethylbenzene | 0.125 | 0.126 | 101 | 73.0-127 | |
| Vinyl chloride | 0.125 | 0.103 | 82.4 | 63.0-134 | |
| Xylenes, Total | 0.375 | 0.316 | 84.3 | 72.0-127 | |
| *(S) Toluene-d8* | | | *99.9* | *75.0-131* | |
| *(S) 4-Bromofluorobenzene* | | | *89.9* | *67.0-138* | |
| *(S) 1,2-Dichloroethane-d4* | | | *101* | *70.0-130* | |

## Method Blank (MB)

(MB) R3499548-1 02/13/20 11:01

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.00350 | 0.0170 |
| PCB 1221 | U | | 0.00537 | 0.0170 |
| PCB 1232 | U | | 0.00417 | 0.0170 |
| PCB 1242 | U | | 0.00318 | 0.0170 |
| PCB 1248 | U | | 0.00315 | 0.0170 |
| PCB 1254 | U | | 0.00472 | 0.0170 |
| PCB 1260 | U | | 0.00494 | 0.0170 |
| *(S) Decachlorobiphenyl* | *110* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *99.2* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R3499548-2 02/13/20 11:15

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1260 | 0.167 | 0.199 | 119 | 37.0-145 | |
| PCB 1016 | 0.167 | 0.203 | 122 | 36.0-141 | |
| *(S) Decachlorobiphenyl* | | | *120* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *109* | *10.0-139* | |

## L1187532-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1187532-01 02/13/20 14:27 • (MS) R3499548-3 02/13/20 14:41 • (MSD) R3499548-4 02/13/20 14:54

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1260 | 0.167 | ND | 0.159 | 0.217 | 95.2 | 130 | 1 | 10.0-160 | | | 30.9 | 38 |
| PCB 1016 | 0.167 | ND | 0.155 | 0.223 | 92.8 | 134 | 1 | 10.0-160 | | | 36.0 | 37 |
| *(S) Decachlorobiphenyl* | | | | | *104* | *148* | | *10.0-135* | | J1 | | |
| *(S) Tetrachloro-m-xylene* | | | | | *89.8* | *127* | | *10.0-139* | | | | |

## Method Blank (MB)

(MB) R3499624-2 02/13/20 09:18

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Anthracene | U | | 0.000600 | 0.00600 |
| Acenaphthene | U | | 0.000600 | 0.00600 |
| Acenaphthylene | U | | 0.000600 | 0.00600 |
| Benzo(a)anthracene | U | | 0.000600 | 0.00600 |
| Benzo(a)pyrene | U | | 0.000600 | 0.00600 |
| Benzo(b)fluoranthene | U | | 0.000600 | 0.00600 |
| Benzo(g,h,i)perylene | U | | 0.000600 | 0.00600 |
| Benzo(k)fluoranthene | U | | 0.000600 | 0.00600 |
| Chrysene | U | | 0.000600 | 0.00600 |
| Dibenz(a,h)anthracene | U | | 0.000600 | 0.00600 |
| Fluoranthene | U | | 0.000600 | 0.00600 |
| Fluorene | U | | 0.000600 | 0.00600 |
| Indeno(1,2,3-cd)pyrene | U | | 0.000600 | 0.00600 |
| Naphthalene | U | | 0.00200 | 0.0200 |
| Phenanthrene | U | | 0.000600 | 0.00600 |
| Pyrene | U | | 0.000600 | 0.00600 |
| 1-Methylnaphthalene | U | | 0.00200 | 0.0200 |
| 2-Methylnaphthalene | U | | 0.00200 | 0.0200 |
| 2-Chloronaphthalene | U | | 0.00200 | 0.0200 |
| *(S) Nitrobenzene-d5* | *92.9* | | | *14.0-149* |
| *(S) 2-Fluorobiphenyl* | *74.8* | | | *34.0-125* |
| *(S) p-Terphenyl-d14* | *72.9* | | | *23.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R3499624-1 02/13/20 08:55

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Anthracene | 0.0800 | 0.0642 | 80.3 | 50.0-126 | |
| Acenaphthene | 0.0800 | 0.0583 | 72.9 | 50.0-120 | |
| Acenaphthylene | 0.0800 | 0.0610 | 76.3 | 50.0-120 | |
| Benzo(a)anthracene | 0.0800 | 0.0544 | 68.0 | 45.0-120 | |
| Benzo(a)pyrene | 0.0800 | 0.0470 | 58.8 | 42.0-120 | |
| Benzo(b)fluoranthene | 0.0800 | 0.0497 | 62.1 | 42.0-121 | |
| Benzo(g,h,i)perylene | 0.0800 | 0.0507 | 63.4 | 45.0-125 | |
| Benzo(k)fluoranthene | 0.0800 | 0.0574 | 71.8 | 49.0-125 | |
| Chrysene | 0.0800 | 0.0583 | 72.9 | 49.0-122 | |
| Dibenz(a,h)anthracene | 0.0800 | 0.0516 | 64.5 | 47.0-125 | |
| Fluoranthene | 0.0800 | 0.0606 | 75.8 | 49.0-129 | |

## Laboratory Control Sample (LCS)

(LCS) R3499624-1 02/13/20 08:55

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Fluorene | 0.0800 | 0.0561 | 70.1 | 49.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.0800 | 0.0513 | 64.1 | 46.0-125 | |
| Naphthalene | 0.0800 | 0.0567 | 70.9 | 50.0-120 | |
| Phenanthrene | 0.0800 | 0.0576 | 72.0 | 47.0-120 | |
| Pyrene | 0.0800 | 0.0557 | 69.6 | 43.0-123 | |
| 1-Methylnaphthalene | 0.0800 | 0.0615 | 76.9 | 51.0-121 | |
| 2-Methylnaphthalene | 0.0800 | 0.0583 | 72.9 | 50.0-120 | |
| 2-Chloronaphthalene | 0.0800 | 0.0560 | 70.0 | 50.0-120 | |
| *(S) Nitrobenzene-d5* | | | *94.5* | *14.0-149* | |
| *(S) 2-Fluorobiphenyl* | | | *73.3* | *34.0-125* | |
| *(S) p-Terphenyl-d14* | | | *73.9* | *23.0-120* | |

## L1187532-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1187532-04 02/13/20 13:07 • (MS) R3499624-3 02/13/20 13:30 • (MSD) R3499624-4 02/13/20 13:53

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Anthracene | 0.0800 | ND | 0.0586 | 0.0893 | 73.3 | 112 | 1 | 10.0-145 | | J3 | 41.5 | 30 |
| Acenaphthene | 0.0800 | ND | 0.0504 | 0.0636 | 63.0 | 79.5 | 1 | 14.0-127 | | | 23.2 | 27 |
| Acenaphthylene | 0.0800 | ND | 0.0497 | 0.0492 | 62.1 | 61.5 | 1 | 21.0-124 | | | 1.01 | 25 |
| Benzo(a)anthracene | 0.0800 | ND | 0.0565 | 0.148 | 67.8 | 182 | 1 | 10.0-139 | | J3 J5 | 89.5 | 30 |
| Benzo(a)pyrene | 0.0800 | ND | 0.0596 | 0.126 | 71.8 | 155 | 1 | 10.0-141 | | J3 J5 | 71.6 | 31 |
| Benzo(b)fluoranthene | 0.0800 | ND | 0.0616 | 0.154 | 72.1 | 188 | 1 | 10.0-140 | | J3 J5 | 85.7 | 36 |
| Benzo(g,h,i)perylene | 0.0800 | ND | 0.0518 | 0.0847 | 61.9 | 103 | 1 | 10.0-140 | | J3 | 48.2 | 33 |
| Benzo(k)fluoranthene | 0.0800 | ND | 0.0508 | 0.0956 | 61.7 | 118 | 1 | 10.0-137 | | J3 | 61.2 | 31 |
| Chrysene | 0.0800 | ND | 0.0614 | 0.157 | 73.0 | 193 | 1 | 10.0-145 | | J3 J5 | 87.5 | 30 |
| Dibenz(a,h)anthracene | 0.0800 | ND | 0.0408 | 0.0457 | 51.0 | 57.1 | 1 | 10.0-132 | | | 11.3 | 31 |
| Fluoranthene | 0.0800 | 0.00862 | 0.0939 | 0.453 | 107 | 555 | 1 | 10.0-153 | | J3 J5 | 131 | 33 |
| Fluorene | 0.0800 | ND | 0.0452 | 0.0571 | 56.5 | 71.4 | 1 | 11.0-130 | | | 23.3 | 29 |
| Indeno(1,2,3-cd)pyrene | 0.0800 | ND | 0.0488 | 0.0822 | 58.8 | 101 | 1 | 10.0-137 | | J3 | 51.0 | 32 |
| Naphthalene | 0.0800 | ND | 0.0499 | 0.0509 | 62.4 | 63.6 | 1 | 10.0-135 | | | 1.98 | 27 |
| Phenanthrene | 0.0800 | ND | 0.0676 | 0.330 | 78.1 | 406 | 1 | 10.0-144 | | J3 J5 | 132 | 31 |
| Pyrene | 0.0800 | 0.00649 | 0.0809 | 0.335 | 93.0 | 411 | 1 | 10.0-148 | | J3 J5 | 122 | 35 |
| 1-Methylnaphthalene | 0.0800 | ND | 0.0525 | 0.0522 | 65.6 | 65.3 | 1 | 10.0-142 | | | 0.573 | 28 |
| 2-Methylnaphthalene | 0.0800 | ND | 0.0493 | 0.0489 | 61.6 | 61.1 | 1 | 10.0-137 | | | 0.815 | 28 |
| 2-Chloronaphthalene | 0.0800 | ND | 0.0467 | 0.0459 | 58.4 | 57.4 | 1 | 29.0-120 | | | 1.73 | 24 |
| *(S) Nitrobenzene-d5* | | | | | *85.0* | *82.4* | | *14.0-149* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *64.1* | *60.7* | | *34.0-125* | | | | |
| *(S) p-Terphenyl-d14* | | | | | *60.8* | *58.0* | | *23.0-120* | | | | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| ND | Not detected at the Reporting Limit (or MDL where applicable). |
| RDL | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| B | The same analyte is found in the associated blank. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J1 | Surrogate recovery limits have been exceeded; values are outside upper control limits. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |

# ACCREDITATIONS & LOCATIONS



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN-03-2002-34 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | n/a |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LAO00356 |
| Kentucky [1 6] | 90010 | South Carolina | 84004 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana [1] | LA180010 | Texas | T104704245-18-15 |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN00003 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 460132 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |

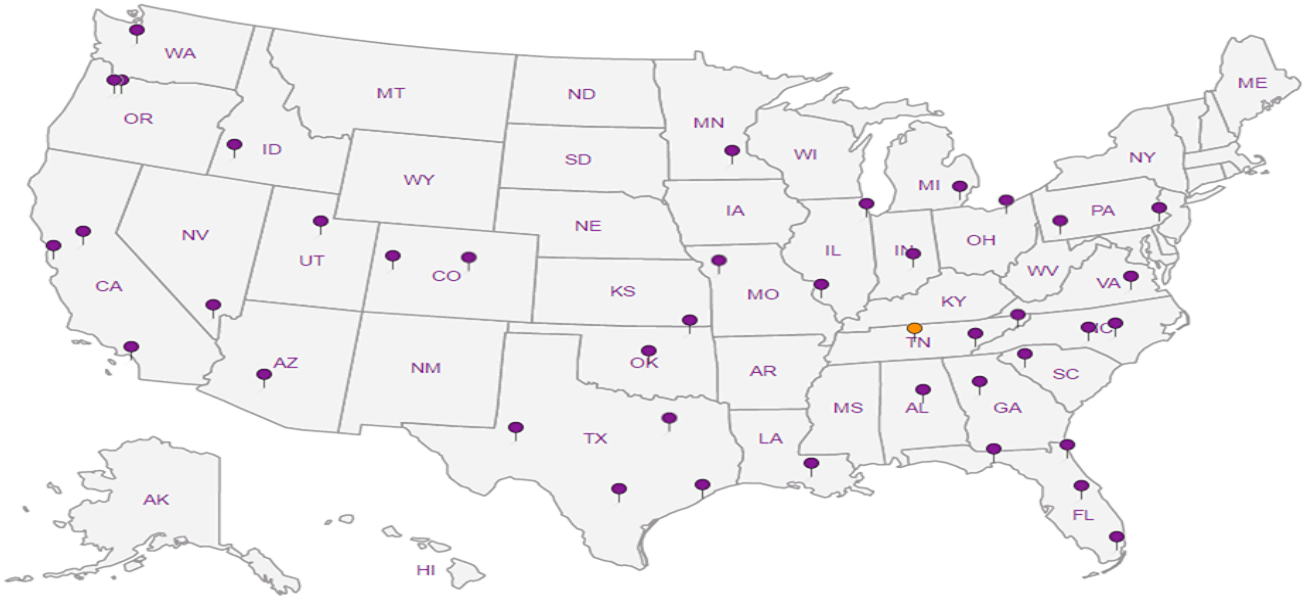
## Third Party Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



**ATC Group Services - Speedway**

2690 Memorial Blvd., Ste. D
Murfreesboro, TN 37129

Billing Information:
Brandie Lehman
PO Box 1510
Springfield, OH 45500

Pres Chk

Report to:
Mr. Michael Lloyd

Email To: mark.a.thompson@atcgs.com; michael.lloyd@atcgs.com;

Project Description: Proposed Speedway 101184

City/State Collected:

Please Circle: PT MT CT ET

Phone:
Fax:

Client Project # Z029000833

Lab Project # ATCMTNSSA-101184

Collected by (print): Keith Yarrow

Site/Facility ID # 101184

P.O. #

Collected by (signature):

Quote #

Immediately Packed on Ice N ____ Y X

*Rush?* (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # 1187532

Table # H182

ATCMTNSSA

Template: T162103

Prelogin: P752345

PM: 364 - T. Alan Harvill

PB: 1/24

Shipped Via: FedEX Ground

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | Metals 250mlHDPE-HNO3 | PAHSIMLVI 40mlAmb-NoPres-WT | RCRA Mtls, TS 2ozClr-NoPres | SV8270PAHSIM 4ozClr-NoPres | TCLP RCRA Mtls 8ozClr-NoPres | V8260 40mlAmb-HCl | V8260 40mlAmb/MeOH5ml/Syr | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 184-16 2-4 | G | SS | 2-4 | 2/4/20 | 9:30 | 3 | | | X | X | | | X | | | | -01 |
| 184-17 6-8 | G | SS | 6-8 | | 1010 | 3 | | | X | X | | | X | | | | 02 |
| 184-32 2-4 | G | SS | 2-4 | | 1040 | 3 | | | X | X | | | X | | | | 03 |
| 184-14B 10-12 | G | SS | 10-12 | | 1304 | 3 | | | X | X | | | X | | | | 04 |
| 184-15 1-2 | G | SS | 1-2 | | 1404 | 3 | | | X | X | | | X | | | | 05 |
| 184-16 6-8 | G | SS | 6-8 | 2/6/20 | 938 | 3 | | | X | X | | | X | | | | ~~06~~ |
| 184-15A 10-12 | G | SS | 10-12 | | 1018 | 3 | | | X | X | | | X | | | | 07 |
| 184-17A 2-4 | G | SS | 2-4 | | 1034 | 3 | | | X | X | | | X | | | | 08 |
| 184-18 6-8 | G | SS | 6-8 | | 1210 | 3 | | | X | X | | | X | | | | 09 |
| 184-31 10-12 | G | SS | 10-12 | | 1250 | 3 | | | X | X | | | X | | | | 10 |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # 134244187652

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCl / MeoH TBR |
|---|---|---|---|---|
| | 2/7 | | | 1 |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: |
| | | | | 0.5+.3 20.8 ~~16~~ 30 |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: |
| | | | | 2-8-20 0845 |

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

**Troy Dunlap**

Pace Analytical®
National Center for Testing & Innovation

| Login #: L118532 | Client:ATCMTNSSA | Date:02/08 | Evaluated by:Kelsey S |
|---|---|---|---|

**Non-Conformance (check applicable items)**

| | Sample Integrity | | Chain of Custody Clarification | | |
|---|---|---|---|---|---|
| | Parameter(s) past holding time | | Login Clarification Needed | | **If Broken Container:** |
| | Temperature not in range | | Chain of custody is incomplete | | Insufficient packing material around container |
| | Improper container type | | Please specify Metals requested. | | Insufficient packing material inside cooler |
| | pH not in range. | | Please specify TCLP requested. | | Improper handling by carrier (FedEx / UPS / Cour |
| | Insufficient sample volume. | | Received additional samples not listed on coc. | | Sample was frozen |
| | Sample is biphasic. | X | Sample ids on containers do not match ids on coc | | Container lid not intact |
| | Vials received with headspace. | | Trip Blank not received. | | **If no Chain of Custody:** |
| | Broken container | | Client did not "X" analysis. | | Received by: |
| | Broken container: | | Chain of Custody is missing | | Date/Time: |
| | Sufficient sample remains | | | | Temp./Cont. Rec./pH: |
| | | | | | Carrier: |
| | | | | | Tracking# |

**Login Comments: Did not receive 184-16 6-8**

| Client informed by: | | Call | | Email | X | Voice Mail | | Date: 2/10/20 | Time: 1147 |
|---|---|---|---|---|---|---|---|---|---|
| TSR Initials: JCR | Client Contact: Kevin O'Toole | | | | | | | | |

**Login Instructions:**

Disregard this sample as listed on the COC.

# Chain-of-Custody-Record

## COC ID # 00052675

TURN AROUND TIME

**STANDARD**

*Speedway Project Information*

| | | | |
|---|---|---|---|
| **Speedway Store #:** | 101184 | **Facility ID** | |
| **Address:** | N Washington & Holiday Drive | | |
| **City:** | Forrest City | **State:** | AR |
| **Phone #:** | | **Fax #:** | |
| **Speedway Proj. Mgr:** | Samantha Kramer | ****INVOICE TO SPEEDWAY**** | |
| **AFE #:** | | **Work Order #:** | |

*Lab Information*

| | | | |
|---|---|---|---|
| **Lab:** | Pace Analytical Services (TN) | | |
| **Consultant:** | ATC Group Services - Nashville, TN | | |
| **Project Mgr:** | Michael Lloyd | | |
| **Address:** | 2690 Memorial Blvd, Suite D, Murfreesboro, TN 37129 | | |
| **Phone #:** | | **Fax #:** | |
| **Sampler:** | Keith Yarrow | | |
| **Shipped:** | FedExp | | |
| **Tracking #:** | 1382 4818 7620 | | |

| Sample ID | Date/Time Sampled | Matrix | Count | Container Type | Preservative | Analysis to be Performed | Method | Remarks |
|---|---|---|---|---|---|---|---|---|
| 184-11 1-2 | 02/07/2020 09:00am | S | 3 | 4 OZ | NONE | RCRA Metals (8) | 6010/7471 | |
| | | | | 4 OZ | NONE | PAHs | 8270 | |
| | | | | 4 OZ | NONE | VOCs | 8260 | |
| | | | | 4 OZ | NONE | PCBs | 8082 | |
| 184-12 6-8 | 02/07/2020 11:26am | S | 3 | 4 OZ | NONE | RCRA Metals (8) | 6010/7471 | |
| | | | | 4 OZ | NONE | PAHs | 8270 | |
| | | | | 4 OZ | NONE | VOCs | 8260 | |
| | | | | 4 OZ | NONE | PCBs | 8082 | |
| 184-12A | 02/07/2020 12:35pm | W | 6 | 4 OZ | NONE | RCRA Metals (8) | 6010/7470 | |
| | | | | 4 OZ | NONE | PAHs | 8270 | |
| | | | | 4 OZ | NONE | VOCs | 8260 | |

| | | | | | |
|---|---|---|---|---|---|
| **Relinquished by:** | **Date** | **Time** | **Received by:** | **Date** | **Time** |
| **Relinquished by:** | **Date** | **Time** | **Received by laboratory:** | **Date** | **Time** |
| **Special Reporting Requirements:** | | | **Lab Notes:** | **Temp** | |

# Chain-of-Custody-Record

## COC ID # 00052675

TURN AROUND TIME

**STANDARD**

*Speedway Project Information*

| | | | |
|---|---|---|---|
| **Speedway Store #:** | 101184 | **Facility ID** | |
| **Address:** | N Washington & Holiday Drive | | |
| **City:** | Forrest City | **State:** | AR |
| **Phone #:** | | **Fax #:** | |
| **Speedway Proj. Mgr:** | Samantha Kramer | ****INVOICE TO SPEEDWAY**** | |
| **AFE #:** | | **Work Order #:** | |

*Lab Information*

| | | | |
|---|---|---|---|
| **Lab:** | Pace Analytical Services (TN) | | |
| **Consultant:** | ATC Group Services - Nashville, TN | | |
| **Project Mgr:** | Michael Lloyd | | |
| **Address:** | 2690 Memorial Blvd, Suite D, Murfreesboro, TN 37129 | | |
| **Phone #:** | | **Fax #:** | |
| **Sampler:** | Keith Yarrow | | |
| **Shipped:** | FedExp | | |
| **Tracking #:** | 1382 4818 7620 | | |

| Sample ID | Date/Time Sampled | Matrix | Count | Container Type | Preservative | Analysis to be Performed | Method | Remarks |
|---|---|---|---|---|---|---|---|---|
| 184-12A 6-8 | 02/06/2020 03:05pm | S | 4 | 4 OZ | NONE | RCRA Metals (8) | 6010/7471 | |
| | | | | 4 OZ | NONE | PAHs | 8270 | |
| | | | | 4 OZ | NONE | VOCs | 8260 | |
| | | | | 4 OZ | NONE | TCLP RCRA Metals (8) | 6010/7470 | |
| | | | | 4 OZ | NONE | PCBs | 8082 | |
| 184-14 1-3 | 02/06/2020 01:44pm | S | 3 | 4 OZ | NONE | RCRA Metals (8) | 6010/7471 | |
| | | | | 4 OZ | NONE | PAHs | 8270 | |
| | | | | 4 OZ | NONE | VOCs | 8260 | |
| | | | | 4 OZ | NONE | PCBs | 8082 | |

| | | | | | |
|---|---|---|---|---|---|
| **Relinquished by:** | **Date** | **Time** | **Received by:** | **Date** | **Time** |
| **Relinquished by:** | **Date** | **Time** | **Received by laboratory:** | **Date** | **Time** |
| **Special Reporting Requirements:** | | | **Lab Notes:** | **Temp** | |

# Chain-of-Custody-Record

## COC ID # 00052675

TURN AROUND TIME

**STANDARD**

*Speedway Project Information*

| | | | |
|---|---|---|---|
| **Speedway Store #:** | 101184 | **Facility ID** | |
| **Address:** | N Washington & Holiday Drive | | |
| **City:** | Forrest City | **State:** | AR |
| **Phone #:** | | **Fax #:** | |
| **Speedway Proj. Mgr:** | Samantha Kramer | ****INVOICE TO SPEEDWAY**** | |
| **AFE #:** | | **Work Order #:** | |

*Lab Information*

| | | | |
|---|---|---|---|
| **Lab:** | Pace Analytical Services (TN) | | |
| **Consultant:** | ATC Group Services - Nashville, TN | | |
| **Project Mgr:** | Michael Lloyd | | |
| **Address:** | 2690 Memorial Blvd, Suite D, Murfreesboro, TN 37129 | | |
| **Phone #:** | | **Fax #:** | |
| **Sampler:** | Keith Yarrow | | |
| **Shipped:** | FedExp | | |
| **Tracking #:** | 1382 4818 7620 | | |

| Sample ID | Date/Time Sampled | Matrix | Count | Container Type | Preservative | Analysis to be Performed | Method | Remarks |
|---|---|---|---|---|---|---|---|---|
| 184-14A | 02/07/2020 01:26pm | W | 6 | 4 OZ | NONE | RCRA Metals (8) | 6010/7470 | |
| | | | | 4 OZ | NONE | PAHs | 8270 | |
| | | | | 4 OZ | NONE | VOCs | 8260 | |
| 184-14A 1-3 | 02/06/2020 01:05pm | S | 3 | 4 OZ | NONE | RCRA Metals (8) | 6010/7471 | |
| | | | | 4 OZ | NONE | PAHs | 8270 | |
| | | | | 4 OZ | NONE | VOCs | 8260 | |
| | | | | 4 OZ | NONE | PCBs | 8082 | |
| 184-14B 10-12 | 02/04/2020 01:04pm | S | 3 | 4 OZ | NONE | RCRA Metals (8) | 6010/7471 | |
| | | | | 4 OZ | NONE | PAHs | 8270 | |
| | | | | 4 OZ | NONE | VOCs | 8260 | |
| | | | | 4 OZ | NONE | PCBs | 8082 | |

| | | | | | |
|---|---|---|---|---|---|
| **Relinquished by:** | **Date** | **Time** | **Received by:** | **Date** | **Time** |
| **Relinquished by:** | **Date** | **Time** | **Received by laboratory:** | **Date** | **Time** |
| **Special Reporting Requirements:** | | | **Lab Notes:** | **Temp** | |

# Chain-of-Custody-Record

## COC ID # 00052675

TURN AROUND TIME

**STANDARD**

*Speedway Project Information*

| | | | |
|---|---|---|---|
| **Speedway Store #:** | 101184 | **Facility ID** | |
| **Address:** | N Washington & Holiday Drive | | |
| **City:** | Forrest City | **State:** | AR |
| **Phone #:** | | **Fax #:** | |
| **Speedway Proj. Mgr:** | Samantha Kramer | ****INVOICE TO SPEEDWAY**** | |
| **AFE #:** | | **Work Order #:** | |

*Lab Information*

| | | | |
|---|---|---|---|
| **Lab:** | Pace Analytical Services (TN) | | |
| **Consultant:** | ATC Group Services - Nashville, TN | | |
| **Project Mgr:** | Michael Lloyd | | |
| **Address:** | 2690 Memorial Blvd, Suite D, Murfreesboro, TN 37129 | | |
| **Phone #:** | | **Fax #:** | |
| **Sampler:** | Keith Yarrow | | |
| **Shipped:** | FedExp | | |
| **Tracking #:** | 1382 4818 7620 | | |

| Sample ID | Date/Time Sampled | Matrix | Count | Container Type | Preservative | Analysis to be Performed | Method | Remarks |
|---|---|---|---|---|---|---|---|---|
| 184-15 1-2 | 02/04/2020 02:04pm | S | 3 | 4 OZ | NONE | RCRA Metals (8) | 6010/7471 | |
| | | | | 4 OZ | NONE | PAHs | 8270 | |
| | | | | 4 OZ | NONE | VOCs | 8260 | |
| | | | | 4 OZ | NONE | PCBs | 8082 | |
| 184-15A 10-12 | 02/06/2020 10:18am | S | 3 | 4 OZ | NONE | RCRA Metals (8) | 6010/7471 | |
| | | | | 4 OZ | NONE | PAHs | 8270 | |
| | | | | 4 OZ | NONE | VOCs | 8260 | |
| | | | | 4 OZ | NONE | PCBs | 8082 | |
| 184-16 2-4 | 02/04/2020 09:30am | S | 3 | 4 OZ | NONE | RCRA Metals (8) | 6010/7471 | |
| | | | | 4 OZ | NONE | PAHs | 8270 | |
| | | | | 4 OZ | NONE | VOCs | 8260 | |
| | | | | 4 OZ | NONE | PCBs | 8082 | |

| | | | | | |
|---|---|---|---|---|---|
| **Relinquished by:** | **Date** | **Time** | **Received by:** | **Date** | **Time** |
| **Relinquished by:** | **Date** | **Time** | **Received by laboratory:** | **Date** | **Time** |
| **Special Reporting Requirements:** | | | **Lab Notes:** | **Temp** | |

# Chain-of-Custody-Record

## COC ID # 00052675

TURN AROUND TIME

**STANDARD**

*Speedway Project Information*

| | | | |
|---|---|---|---|
| **Speedway Store #:** | 101184 | **Facility ID** | |
| **Address:** | N Washington & Holiday Drive | | |
| **City:** | Forrest City | **State:** | AR |
| **Phone #:** | | **Fax #:** | |
| **Speedway Proj. Mgr:** | Samantha Kramer | ****INVOICE TO SPEEDWAY**** | |
| **AFE #:** | | **Work Order #:** | |

*Lab Information*

| | | | |
|---|---|---|---|
| **Lab:** | Pace Analytical Services (TN) | | |
| **Consultant:** | ATC Group Services - Nashville, TN | | |
| **Project Mgr:** | Michael Lloyd | | |
| **Address:** | 2690 Memorial Blvd, Suite D, Murfreesboro, TN 37129 | | |
| **Phone #:** | | **Fax #:** | |
| **Sampler:** | Keith Yarrow | | |
| **Shipped:** | FedExp | | |
| **Tracking #:** | 1382 4818 7620 | | |

| Sample ID | Date/Time Sampled | Matrix | Count | Container Type | Preservative | Analysis to be Performed | Method | Remarks |
|---|---|---|---|---|---|---|---|---|
| 184-16 6-8 | 02/06/2020 09:38am | S | 3 | 4 OZ | NONE | RCRA Metals (8) | 6010/7471 | |
| | | | | 4 OZ | NONE | PAHs | 8270 | |
| | | | | 4 OZ | NONE | VOCs | 8260 | |
| | | | | 4 OZ | NONE | PCBs | 8082 | |
| 184-17 6-8 | 02/04/2020 10:10am | S | 3 | 4 OZ | NONE | RCRA Metals (8) | 6010/7471 | |
| | | | | 4 OZ | NONE | PAHs | 8270 | |
| | | | | 4 OZ | NONE | VOCs | 8260 | |
| | | | | 4 OZ | NONE | PCBs | 8082 | |
| 184-17A 2-4 | 02/06/2020 10:34am | S | 3 | 4 OZ | NONE | RCRA Metals (8) | 6010/7471 | |
| | | | | 4 OZ | NONE | PAHs | 8270 | |
| | | | | 4 OZ | NONE | VOCs | 8260 | |
| | | | | 4 OZ | NONE | PCBs | 8082 | |

| | | | | | |
|---|---|---|---|---|---|
| **Relinquished by:** | **Date** | **Time** | **Received by:** | **Date** | **Time** |
| **Relinquished by:** | **Date** | **Time** | **Received by laboratory:** | **Date** | **Time** |
| **Special Reporting Requirements:** | | | **Lab Notes:** | **Temp** | |

# Chain-of-Custody-Record

## COC ID # 00052675

TURN AROUND TIME

**STANDARD**

*Speedway Project Information*

| | | | |
|---|---|---|---|
| **Speedway Store #:** | 101184 | **Facility ID** | |
| **Address:** | N Washington & Holiday Drive | | |
| **City:** | Forrest City | **State:** | AR |
| **Phone #:** | | **Fax #:** | |
| **Speedway Proj. Mgr:** | Samantha Kramer | ****INVOICE TO SPEEDWAY**** | |
| **AFE #:** | | **Work Order #:** | |

*Lab Information*

| | | | |
|---|---|---|---|
| **Lab:** | Pace Analytical Services (TN) | | |
| **Consultant:** | ATC Group Services - Nashville, TN | | |
| **Project Mgr:** | Michael Lloyd | | |
| **Address:** | 2690 Memorial Blvd, Suite D, Murfreesboro, TN 37129 | | |
| **Phone #:** | | **Fax #:** | |
| **Sampler:** | Keith Yarrow | | |
| **Shipped:** | FedExp | | |
| **Tracking #:** | 1382 4818 7620 | | |

| Sample ID | Date/Time Sampled | Matrix | Count | Container Type | Preservative | Analysis to be Performed | Method | Remarks |
|---|---|---|---|---|---|---|---|---|
| 184-18 | 02/07/2020 12:45pm | W | 6 | 4 OZ | NONE | RCRA Metals (8) | 6010/7470 | |
| | | | | 4 OZ | NONE | PAHs | 8270 | |
| | | | | 4 OZ | NONE | VOCs | 8260 | |
| 184-18 6-8 | 02/06/2020 12:10pm | S | 3 | 4 OZ | NONE | RCRA Metals (8) | 6010/7471 | |
| | | | | 4 OZ | NONE | PAHs | 8270 | |
| | | | | 4 OZ | NONE | VOCs | 8260 | |
| | | | | 4 OZ | NONE | PCBs | 8082 | |
| 184-29 6-8 | 02/07/2020 10:58am | S | 3 | 4 OZ | NONE | RCRA Metals (8) | 6010/7471 | |
| | | | | 4 OZ | NONE | PAHs | 8270 | |
| | | | | 4 OZ | NONE | VOCs | 8260 | |
| | | | | 4 OZ | NONE | PCBs | 8082 | |

| | | | | | |
|---|---|---|---|---|---|
| **Relinquished by:** | **Date** | **Time** | **Received by:** | **Date** | **Time** |
| **Relinquished by:** | **Date** | **Time** | **Received by laboratory:** | **Date** | **Time** |
| **Special Reporting Requirements:** | | | **Lab Notes:** | **Temp** | |

# Chain-of-Custody-Record

## COC ID # 00052675

TURN AROUND TIME

**STANDARD**

*Speedway Project Information*

| | | | |
|---|---|---|---|
| **Speedway Store #:** | 101184 | **Facility ID** | |
| **Address:** | N Washington & Holiday Drive | | |
| **City:** | Forrest City | **State:** | AR |
| **Phone #:** | | **Fax #:** | |
| **Speedway Proj. Mgr:** | Samantha Kramer | ****INVOICE TO SPEEDWAY**** | |
| **AFE #:** | | **Work Order #:** | |

*Lab Information*

| | | | |
|---|---|---|---|
| **Lab:** | Pace Analytical Services (TN) | | |
| **Consultant:** | ATC Group Services - Nashville, TN | | |
| **Project Mgr:** | Michael Lloyd | | |
| **Address:** | 2690 Memorial Blvd, Suite D, Murfreesboro, TN 37129 | | |
| **Phone #:** | | **Fax #:** | |
| **Sampler:** | Keith Yarrow | | |
| **Shipped:** | FedExp | | |
| **Tracking #:** | 1382 4818 7620 | | |

| Sample ID | Date/Time Sampled | Matrix | Count | Container Type | Preservative | Analysis to be Performed | Method | Remarks |
|---|---|---|---|---|---|---|---|---|
| 184-31 10-12 | 02/06/2020 12:50pm | S | 3 | 4 OZ | NONE | RCRA Metals (8) | 6010/7471 | |
| | | | | 4 OZ | NONE | PAHs | 8270 | |
| | | | | 4 OZ | NONE | VOCs | 8260 | |
| | | | | 4 OZ | NONE | PCBs | 8082 | |
| 184-32 2-4 | 02/04/2020 10:40am | S | 3 | 4 OZ | NONE | RCRA Metals (8) | 6010/7471 | |
| | | | | 4 OZ | NONE | PAHs | 8270 | |
| | | | | 4 OZ | NONE | VOCs | 8260 | |
| | | | | 4 OZ | NONE | PCBs | 8082 | |
| 184-33 4-6 | 02/07/2020 10:24am | S | 3 | 4 OZ | NONE | RCRA Metals (8) | 6010/7471 | |
| | | | | 4 OZ | NONE | PAHs | 8270 | |
| | | | | 4 OZ | NONE | VOCs | 8260 | |
| | | | | 4 OZ | NONE | PCBs | 8082 | |

| | | | | | |
|---|---|---|---|---|---|
| **Relinquished by:** | **Date** | **Time** | **Received by:** | **Date** | **Time** |
| **Relinquished by:** | **Date** | **Time** | **Received by laboratory:** | **Date** | **Time** |
| **Special Reporting Requirements:** | | | **Lab Notes:** | **Temp** | |

# Chain-of-Custody-Record

## COC ID # 00052675

TURN AROUND TIME

**STANDARD**

*Speedway Project Information*

| | | | |
|---|---|---|---|
| **Speedway Store #:** | 101184 | **Facility ID** | |
| **Address:** | N Washington & Holiday Drive | | |
| **City:** | Forrest City | **State:** | AR |
| **Phone #:** | | **Fax #:** | |
| **Speedway Proj. Mgr:** | Samantha Kramer | ****INVOICE TO SPEEDWAY**** | |
| **AFE #:** | | **Work Order #:** | |

*Lab Information*

| | | | |
|---|---|---|---|
| **Lab:** | Pace Analytical Services (TN) | | |
| **Consultant:** | ATC Group Services - Nashville, TN | | |
| **Project Mgr:** | Michael Lloyd | | |
| **Address:** | 2690 Memorial Blvd, Suite D, Murfreesboro, TN 37129 | | |
| **Phone #:** | | **Fax #:** | |
| **Sampler:** | Keith Yarrow | | |
| **Shipped:** | FedExp | | |
| **Tracking #:** | 1382 4818 7620 | | |

| Sample ID | Date/Time Sampled | Matrix | Count | Container Type | Preservative | Analysis to be Performed | Method | Remarks |
|---|---|---|---|---|---|---|---|---|
| 184-35 | 02/07/2020 01:40pm | W | 6 | 4 OZ | NONE | RCRA Metals (8) | 6010/7470 | |
| | | | | 4 OZ | NONE | PAHs | 8270 | |
| | | | | 4 OZ | NONE | VOCs | 8260 | |
| 184-35 6-8 | 02/07/2020 09:42am | S | 3 | 4 OZ | NONE | RCRA Metals (8) | 6010/7471 | |
| | | | | 4 OZ | NONE | PAHs | 8270 | |
| | | | | 4 OZ | NONE | VOCs | 8260 | |
| | | | | 4 OZ | NONE | PCBs | 8082 | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| **Relinquished by:** | **Date** | **Time** | **Received by:** | **Date** | **Time** |
| **Relinquished by:** | **Date** | **Time** | **Received by laboratory:** | **Date** | **Time** |
| **Special Reporting Requirements:** | | | **Lab Notes:** | **Temp** | |

# Chain of Custody Analysis to be Performed
## COC ID # 52675

### Analysis Name: PAHs ( Soil )

**Analysis Description / Method:** PAHs / 8270

**Container Type / Preservative:** 4 OZ / NONE

**Analytes:** 1-Methylnaphthalene mg/Kg, 2-Chloronaphthalene mg/Kg, 2-Methylnaphthalene mg/Kg, Acenaphthene mg/Kg, Acenaphthylene mg/Kg, Anthracene mg/Kg, Benz(a)anthracene mg/Kg, Benzo(a)pyrene mg/Kg, Benzo(b)fluoranthene mg/Kg, Benzo(g,h,I)perylene mg/Kg, Benzo(k)fluoranthene mg/Kg, Chrysene mg/Kg, Dibenz(a,h)anthracene mg/Kg, Fluoranthene mg/Kg, Fluorene mg/Kg, Indeno(1,2,3-cd)pyrene mg/Kg, Naphthalene mg/Kg, Phenanthrene mg/Kg, Pyrene mg/Kg

### Analysis Name: PAHs ( Water )

**Analysis Description / Method:** PAHS / 8270

**Container Type / Preservative:** 4 OZ / NONE

**Analytes:** 1-Methylnaphthalene ug/L, 2-Chloronaphthalene ug/L, 2-Methylnaphthalene ug/L, Acenaphthene ug/L, Acenaphthylene ug/L, Anthracene ug/L, Benzo(a)anthracene ug/L, Benzo(a)pyrene ug/L, Benzo(b)fluoranthene ug/L, Benzo(g,h,I)perylene ug/L, Benzo(k)fluoranthene ug/L, Chrysene ug/L, Dibenz(a,h)anthracene ug/L, Fluoranthene ug/L, Fluorene ug/L, Indeno(1,2,3-cd)pyrene ug/L, Naphthalene ug/L, Phenanthrene ug/L, Pyrene ug/L

### Analysis Name: PCBs ( Soil )

**Analysis Description / Method:** PCBs / 8082

**Container Type / Preservative:** 4 OZ / NONE

**Analytes:** PCB - Arochlor 1016 mg/Kg, PCB - Arochlor 1221 mg/Kg, PCB - Arochlor 1232 mg/Kg, PCB - Arochlor 1242 mg/Kg, PCB - Arochlor 1248 mg/Kg, PCB - Arochlor 1254 mg/Kg, PCB - Arochlor 1260 mg/Kg

### Analysis Name: RCRA Metals (8) ( Soil )

**Analysis Description / Method:** RCRA Metals (8) / 6010/7471

**Container Type / Preservative:** 4 OZ / NONE

**Analytes:** Arsenic mg/Kg, Barium mg/Kg, Cadmium mg/Kg, Chromium mg/Kg, Lead mg/Kg, Mercury mg/Kg, Selenium mg/Kg, Silver mg/Kg

## Analysis Name: RCRA Metals (8) ( Water )

**Analysis Description / Method:** RCRA Metals (8) / 6010/7470

**Container Type / Preservative:** 4 OZ / NONE

**Analytes:** Arsenic ug/L, Barium ug/L, Cadmium ug/L, Chromium ug/L, Lead ug/L, Mercury ug/L, Selenium ug/L, Silver ug/L

## Analysis Name: TCLP RCRA Metals (8) ( Soil )

**Analysis Description / Method:** TCLP RCRA Metals (8) / 6010/7470

**Container Type / Preservative:** 4 OZ / NONE

**Analytes:** Arsenic mg/L, Barium mg/L, Cadmium mg/L, Chromium mg/L, Lead mg/L, Mercury mg/L, Selenium mg/L, Silver mg/L

## Analysis Name: VOCs ( Soil )

**Analysis Description / Method:** VOCs / 8260

**Container Type / Preservative:** 4 OZ / NONE

**Analytes:** 1,1,1,2-Tetrachloroethane mg/Kg, 1,1,1-Trichloroethane mg/Kg, 1,1,2,2-Tetrachloroethane mg/Kg, 1,1,2-Trichloroethane mg/Kg, 1,1,2-Trichlorotrifluoroethane mg/Kg, 1,1-Dichloroethane mg/Kg, 1,1-Dichloroethene mg/Kg, 1,1-Dichloropropene mg/Kg, 1,2,3-Trichlorobenzene mg/Kg, 1,2,3-Trichloropropane mg/Kg, 1,2,3-Trimethylbenzene mg/Kg, 1,2,4-Trichlorobenzene mg/Kg, 1,2,4-Trimethylbenzene mg/Kg, 1,2-Dibromo-3-chloropropane mg/Kg, 1,2-Dibromoethane mg/Kg, 1,2-Dichlorobenzene mg/Kg, 1,2-Dichloroethane mg/Kg, 1,2-Dichloropropane mg/Kg, 1,3,5-Trimethylbenzene mg/Kg, 1,3-Dichlorobenzene mg/Kg, 1,3-Dichloropropane mg/Kg, 1,4-Dichlorobenzene mg/Kg, 2,2-Dichloropropane mg/Kg, 2-Butanone mg/Kg, 2-Chlorotoluene mg/Kg, 4-Chlorotoluene mg/Kg, 4-Methyl-2-pentanone mg/Kg, Acetone mg/Kg, Acrolein mg/Kg, Acrylonitrile mg/Kg, Benzene mg/Kg, Bromobenzene mg/Kg, Bromodichloromethane mg/Kg, Bromoform mg/Kg, Bromomethane mg/Kg, Carbon tetrachloride mg/Kg, Chlorobenzene mg/Kg, Chlorodibromomethane mg/Kg, Chloroethane mg/Kg, Chloroform mg/Kg, Chloromethane mg/Kg, Dibromomethane mg/Kg, Dichlorodifluoromethane mg/Kg, Diisopropyl ether mg/Kg, Ethylbenzene mg/Kg, Hexchloro-1,3-butadiene mg/Kg, Isopropylbenzene mg/Kg, Methyl tert butyl ether mg/Kg, Methylene chloride mg/Kg, Naphthalene mg/Kg, Styrene mg/Kg, Tetrachloroethene mg/Kg, Toluene mg/Kg, Total Xylenes mg/Kg, Trichloroethene mg/Kg, Trichlorofluoromethane mg/Kg, Vinyl chloride mg/Kg, cis-1,2-Dichloroethene mg/Kg, cis-1,3-Dichloropropene mg/Kg, n-Butylbenzene mg/Kg, n-Propylbenzene mg/Kg, p-Isopropyltoluene mg/Kg, sec-Butylbenzene mg/Kg,

tert-Butylbenzene mg/Kg, trans-1,2-Dichloroethene mg/Kg, trans-1,3-Dichloropropene mg/Kg

## Analysis Name: VOCs ( Water )

**Analysis Description / Method:** VOCs / 8260

**Container Type / Preservative:** 4 OZ / NONE

**Analytes:** 1,1,1,2-Tetrachloroethane ug/L, 1,1,1-Trichloroethane ug/L, 1,1,2,2-Tetrachloroethane ug/L, 1,1,2-Trichloroethane ug/L, 1,1,2-Trichlorotrifluoroethane ug/L, 1,1-Dichloroethane ug/L, 1,1-Dichloroethene ug/L, 1,1-Dichloropropene ug/L, 1,2,3-Trichlorobenzene ug/L, 1,2,3-Trichloropropane ug/L, 1,2,3-Trimethylbenzene ug/L, 1,2,4-Trichlorobenzene ug/L, 1,2,4-Trimethylbenzene ug/L, 1,2-Dibromo-3-chloropropane ug/L, 1,2-Dibromoethane ug/L, 1,2-Dichlorobenzene ug/L, 1,2-Dichloroethane ug/L, 1,2-Dichloropropane ug/L, 1,3,5-Trimethylbenzene ug/L, 1,3-Dichlorobenzene ug/L, 1,3-Dichloropropane ug/L, 1,4-Dichlorobenzene ug/L, 2,2-Dichloropropane ug/L, 2-Butanone ug/L, 2-Chlorotoluene ug/L, 4-Chlorotoluene ug/L, 4-Methyl-2-pentanone ug/L, Acetone ug/L, Acrolein ug/L, Acrylonitrile ug/L, Benzene ug/L, Bromobenzene ug/L, Bromodichloromethane ug/L, Bromoform ug/L, Bromomethane ug/L, Carbon tetrachloride ug/L, Chlorobenzene ug/L, Chlorodibromomethane ug/L, Chloroethane ug/L, Chloroform ug/L, Chloromethane ug/L, Dibromomethane ug/L, Dichlorodifluoromethane ug/L, Diisopropyl ether ug/L, Ethylbenzene ug/L, Hexchloro-1,3-butadiene ug/L, Isopropylbenzene ug/L, Methyl tert butyl ether ug/L, Methylene chloride ug/L, Naphthalene ug/L, Styrene ug/L, Tetrachloroethene ug/L, Toluene ug/L, Total Xylenes ug/L, Trichloroethene ug/L, Trichlorofluoromethane ug/L, Vinyl chloride ug/L, cis-1,2-Dichloroethene ug/L, cis-1,3-Dichloropropene ug/L, n-Butylbenzene ug/L, n-Propylbenzene ug/L, p-Isopropyltoluene ug/L, sec-Butylbenzene ug/L, tert-Butylbenzene ug/L, trans-1,2-Dichloroethene ug/L, trans-1,3-Dichloropropene ug/L

# ANALYTICAL REPORT

March 03, 2020



## ATC Group Services - Speedway

| | |
|---|---|
| Sample Delivery Group: | L1187565 |
| Samples Received: | 02/08/2020 |
| Project Number: | Z029000833 |
| Description: | Proposed Speedway 101184 |
| Site: | 101184 |
| Report To: | Mr. Michael Lloyd<br>2690 Memorial Blvd., Ste. D<br>Murfreesboro, TN 37129 |

Entire Report Reviewed By:

T. Alan Harvill
Project Manager



# TABLE OF CONTENTS

## 184-14A 1-3 L1187565-01 Solid

Collected by: Keith Yarrow | Collected date/time: 02/06/20 13:05 | Received date/time: 02/08/20 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1426304 | 1 | 02/12/20 21:48 | 02/12/20 21:57 | KBC | Mt. Juliet, TN |
| Mercury by Method 7471A | WG1424896 | 1 | 02/10/20 10:21 | 02/10/20 20:07 | TCT | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1424912 | 1 | 02/09/20 17:26 | 02/11/20 10:27 | TRB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1425589 | 1 | 02/06/20 13:05 | 02/11/20 02:14 | DWR | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG1427430 | 1 | 02/13/20 17:11 | 02/14/20 11:35 | SSH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1426708 | 1 | 02/12/20 17:14 | 02/13/20 01:26 | AAT | Mt. Juliet, TN |

## 184-14 1-3 L1187565-02 Solid

Collected by: Keith Yarrow | Collected date/time: 02/06/20 13:44 | Received date/time: 02/08/20 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1426304 | 1 | 02/12/20 21:48 | 02/12/20 21:57 | KBC | Mt. Juliet, TN |
| Mercury by Method 7471A | WG1424896 | 1 | 02/10/20 10:21 | 02/10/20 20:10 | TCT | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1424912 | 1 | 02/09/20 17:26 | 02/11/20 11:17 | TRB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1425589 | 1 | 02/06/20 13:44 | 02/11/20 02:33 | DWR | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG1427430 | 1 | 02/13/20 17:11 | 02/14/20 11:51 | SSH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1426708 | 1 | 02/12/20 17:14 | 02/13/20 01:48 | AAT | Mt. Juliet, TN |

## 184-12A 6-8 L1187565-03 Solid

Collected by: Keith Yarrow | Collected date/time: 02/06/20 15:05 | Received date/time: 02/08/20 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1426304 | 1 | 02/12/20 21:48 | 02/12/20 21:57 | KBC | Mt. Juliet, TN |
| Mercury by Method 7471A | WG1424896 | 1 | 02/10/20 10:21 | 02/10/20 20:12 | TCT | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1424912 | 1 | 02/09/20 17:26 | 02/11/20 11:25 | TRB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1425589 | 1 | 02/06/20 15:05 | 02/11/20 02:52 | DWR | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG1427430 | 1 | 02/13/20 17:11 | 02/14/20 12:07 | SSH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1426708 | 1 | 02/12/20 17:14 | 02/12/20 23:58 | AAT | Mt. Juliet, TN |

## 184-12A 6-8 L1187565-04 Waste

Collected by: Keith Yarrow | Collected date/time: 02/06/20 15:05 | Received date/time: 02/08/20 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Preparation by Method 1311 | WG1426879 | 1 | 02/12/20 17:04 | 02/12/20 17:04 | CGD | Mt. Juliet, TN |
| Mercury by Method 7470A | WG1427630 | 1 | 02/13/20 16:45 | 02/13/20 21:39 | TCT | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1427686 | 1 | 02/13/20 18:32 | 02/13/20 23:59 | TRB | Mt. Juliet, TN |

## 184-11 1-2 L1187565-05 Solid

Collected by: Keith Yarrow | Collected date/time: 02/07/20 09:00 | Received date/time: 02/08/20 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1426304 | 1 | 02/12/20 21:48 | 02/12/20 21:57 | KBC | Mt. Juliet, TN |
| Mercury by Method 7471A | WG1424896 | 1 | 02/10/20 10:21 | 02/10/20 20:15 | TCT | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1424912 | 1 | 02/09/20 17:26 | 02/11/20 11:28 | TRB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1425589 | 1 | 02/07/20 09:00 | 02/11/20 03:11 | DWR | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG1427430 | 1 | 02/13/20 17:11 | 02/14/20 12:39 | SSH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1426708 | 1 | 02/12/20 17:14 | 02/13/20 02:10 | AAT | Mt. Juliet, TN |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## 184-35 6-8 L1187565-06 Solid

Collected by: Keith Yarrow | Collected date/time: 02/07/20 09:42 | Received date/time: 02/08/20 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1426304 | 1 | 02/12/20 21:48 | 02/12/20 21:57 | KBC | Mt. Juliet, TN |
| Mercury by Method 7471A | WG1424896 | 1 | 02/10/20 10:21 | 02/10/20 20:17 | TCT | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1424912 | 1 | 02/09/20 17:26 | 02/11/20 11:31 | TRB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1425589 | 1 | 02/07/20 09:42 | 02/11/20 03:29 | DWR | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG1427430 | 1 | 02/13/20 17:11 | 02/14/20 12:54 | SSH | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1426708 | 1 | 02/12/20 17:14 | 02/13/20 00:20 | AAT | Mt. Juliet, TN |

## 184-33 4-6 L1187565-07 Solid

Collected by: Keith Yarrow | Collected date/time: 02/07/20 10:24 | Received date/time: 02/08/20 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1426304 | 1 | 02/12/20 21:48 | 02/12/20 21:57 | KBC | Mt. Juliet, TN |
| Mercury by Method 7471A | WG1424896 | 1 | 02/10/20 10:21 | 02/10/20 19:19 | TCT | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1424912 | 1 | 02/09/20 17:26 | 02/11/20 11:33 | TRB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1425600 | 1 | 02/07/20 10:24 | 02/11/20 02:35 | BMB | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG1427430 | 1 | 02/13/20 17:11 | 02/14/20 13:57 | MTJ | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1426708 | 1 | 02/12/20 17:14 | 02/13/20 03:39 | AAT | Mt. Juliet, TN |

## 184-29 6-8 L1187565-08 Solid

Collected by: Keith Yarrow | Collected date/time: 02/07/20 10:58 | Received date/time: 02/08/20 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1426305 | 1 | 02/12/20 21:35 | 02/12/20 21:46 | KBC | Mt. Juliet, TN |
| Mercury by Method 7471A | WG1424896 | 1 | 02/10/20 10:21 | 02/10/20 20:20 | TCT | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1424912 | 1 | 02/09/20 17:26 | 02/11/20 11:36 | TRB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1425600 | 1 | 02/07/20 10:58 | 02/11/20 02:55 | BMB | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG1427430 | 1 | 02/13/20 17:11 | 02/14/20 14:12 | MTJ | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1426708 | 1 | 02/12/20 17:14 | 02/13/20 00:42 | AAT | Mt. Juliet, TN |

## 184-12 6-8 L1187565-09 Solid

Collected by: Keith Yarrow | Collected date/time: 02/07/20 11:26 | Received date/time: 02/08/20 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1426305 | 1 | 02/12/20 21:35 | 02/12/20 21:46 | KBC | Mt. Juliet, TN |
| Mercury by Method 7471A | WG1424896 | 1 | 02/10/20 10:21 | 02/10/20 20:22 | TCT | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1424912 | 1 | 02/09/20 17:26 | 02/11/20 11:39 | TRB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1425600 | 1 | 02/07/20 11:26 | 02/11/20 03:16 | BMB | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG1427430 | 1 | 02/13/20 17:11 | 02/14/20 14:28 | MTJ | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1426708 | 1 | 02/12/20 17:14 | 02/13/20 03:17 | AAT | Mt. Juliet, TN |

## 184-12A L1187565-10 GW

Collected by: Keith Yarrow | Collected date/time: 02/07/20 12:35 | Received date/time: 02/08/20 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG1425569 | 1 | 02/10/20 20:00 | 02/11/20 09:41 | ABL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1424603 | 1 | 02/09/20 20:28 | 02/11/20 19:08 | EL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1425810 | 1 | 02/11/20 13:46 | 02/11/20 13:46 | BMB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1426323 | 1 | 02/12/20 08:28 | 02/12/20 23:42 | LEA | Mt. Juliet, TN |

## 184-18 L1187565-11 GW

Collected by: Keith Yarrow | Collected date/time: 02/07/20 12:45 | Received date/time: 02/08/20 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG1425569 | 1 | 02/10/20 20:00 | 02/11/20 09:43 | ABL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1424603 | 1 | 02/09/20 20:28 | 02/11/20 19:11 | EL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1425810 | 1 | 02/11/20 14:07 | 02/11/20 14:07 | BMB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1426323 | 1 | 02/12/20 08:28 | 02/13/20 00:04 | LEA | Mt. Juliet, TN |

## 184-14A L1187565-12 GW

Collected by: Keith Yarrow | Collected date/time: 02/07/20 13:26 | Received date/time: 02/08/20 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG1425980 | 1 | 02/11/20 19:01 | 02/12/20 09:11 | SD | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1424155 | 5 | 02/10/20 22:23 | 02/12/20 00:08 | EL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1425810 | 1 | 02/11/20 14:27 | 02/11/20 14:27 | BMB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1426323 | 1.25 | 02/12/20 08:28 | 02/13/20 00:27 | LEA | Mt. Juliet, TN |

## 184-35 L1187565-13 GW

Collected by: Keith Yarrow | Collected date/time: 02/07/20 13:40 | Received date/time: 02/08/20 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Mercury by Method 7470A | WG1425569 | 1 | 02/10/20 20:00 | 02/11/20 09:11 | ABL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1424603 | 1 | 02/09/20 20:28 | 02/11/20 19:14 | EL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1425810 | 1 | 02/11/20 11:45 | 02/11/20 11:45 | BMB | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1426323 | 1 | 02/12/20 08:28 | 02/13/20 00:49 | LEA | Mt. Juliet, TN |

## 184-16 6-8 L1187565-14 Solid

Collected by: Keith Yarrow | Collected date/time: 02/06/20 09:38 | Received date/time: 02/08/20 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1426305 | 1 | 02/12/20 21:35 | 02/12/20 21:46 | KBC | Mt. Juliet, TN |
| Mercury by Method 7471A | WG1425892 | 1 | 02/11/20 12:36 | 02/11/20 21:02 | TCT | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B | WG1425657 | 1 | 02/11/20 12:03 | 02/11/20 16:20 | EL | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1425600 | 1 | 02/06/20 09:38 | 02/11/20 03:36 | BMB | Mt. Juliet, TN |
| Polychlorinated Biphenyls (GC) by Method 8082 | WG1427430 | 1 | 02/13/20 17:11 | 02/14/20 15:14 | MTJ | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG1426711 | 1 | 02/13/20 11:23 | 02/13/20 18:54 | SHG | Mt. Juliet, TN |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

T. Alan Harvill
Project Manager

## Total Solids by Method 2540 G-2011

| Analyte | Result % | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| Total Solids | 75.8 | | 1 | 02/12/2020 21:57 | WG1426304 |

## Mercury by Method 7471A

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0300 | 1 | 02/10/2020 20:07 | WG1424896 |

## Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Arsenic | 7.85 | | 2.00 | 1 | 02/11/2020 10:27 | WG1424912 |
| Barium | 189 | O1 | 0.500 | 1 | 02/11/2020 10:27 | WG1424912 |
| Cadmium | ND | | 0.500 | 1 | 02/11/2020 10:27 | WG1424912 |
| Chromium | 14.0 | | 1.00 | 1 | 02/11/2020 10:27 | WG1424912 |
| Lead | 9.34 | | 0.500 | 1 | 02/11/2020 10:27 | WG1424912 |
| Selenium | ND | | 2.00 | 1 | 02/11/2020 10:27 | WG1424912 |
| Silver | ND | | 1.00 | 1 | 02/11/2020 10:27 | WG1424912 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:14 | WG1425589 |
| 1,1,1-Trichloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:14 | WG1425589 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:14 | WG1425589 |
| 1,1,2-Trichloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:14 | WG1425589 |
| 1,1,2-Trichlorotrifluoroethane | ND | | 0.00250 | 1 | 02/11/2020 02:14 | WG1425589 |
| 1,1-Dichloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:14 | WG1425589 |
| 1,1-Dichloroethene | ND | | 0.00250 | 1 | 02/11/2020 02:14 | WG1425589 |
| 1,1-Dichloropropene | ND | | 0.00250 | 1 | 02/11/2020 02:14 | WG1425589 |
| 1,2,3-Trichlorobenzene | ND | | 0.0125 | 1 | 02/11/2020 02:14 | WG1425589 |
| 1,2,3-Trichloropropane | ND | | 0.0125 | 1 | 02/11/2020 02:14 | WG1425589 |
| 1,2,3-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 02:14 | WG1425589 |
| 1,2,4-Trichlorobenzene | ND | | 0.0125 | 1 | 02/11/2020 02:14 | WG1425589 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 02:14 | WG1425589 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0250 | 1 | 02/11/2020 02:14 | WG1425589 |
| 1,2-Dibromoethane | ND | | 0.00250 | 1 | 02/11/2020 02:14 | WG1425589 |
| 1,2-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 02:14 | WG1425589 |
| 1,2-Dichloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:14 | WG1425589 |
| 1,2-Dichloropropane | ND | | 0.00500 | 1 | 02/11/2020 02:14 | WG1425589 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 02:14 | WG1425589 |
| 1,3-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 02:14 | WG1425589 |
| 1,3-Dichloropropane | ND | | 0.00500 | 1 | 02/11/2020 02:14 | WG1425589 |
| 1,4-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 02:14 | WG1425589 |
| 2,2-Dichloropropane | ND | | 0.00250 | 1 | 02/11/2020 02:14 | WG1425589 |
| 2-Butanone (MEK) | 0.0253 | B | 0.0250 | 1 | 02/11/2020 02:14 | WG1425589 |
| 2-Chlorotoluene | ND | | 0.00250 | 1 | 02/11/2020 02:14 | WG1425589 |
| 4-Chlorotoluene | ND | | 0.00500 | 1 | 02/11/2020 02:14 | WG1425589 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0250 | 1 | 02/11/2020 02:14 | WG1425589 |
| Acetone | ND | | 0.0250 | 1 | 02/11/2020 02:14 | WG1425589 |
| Acrylonitrile | ND | | 0.0125 | 1 | 02/11/2020 02:14 | WG1425589 |
| Benzene | ND | | 0.00100 | 1 | 02/11/2020 02:14 | WG1425589 |
| Bromobenzene | ND | | 0.0125 | 1 | 02/11/2020 02:14 | WG1425589 |
| Bromodichloromethane | ND | | 0.00250 | 1 | 02/11/2020 02:14 | WG1425589 |
| Bromoform | ND | | 0.0250 | 1 | 02/11/2020 02:14 | WG1425589 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Bromomethane | ND | | 0.0125 | 1 | 02/11/2020 02:14 | WG1425589 |
| Carbon tetrachloride | ND | J4 | 0.00500 | 1 | 02/11/2020 02:14 | WG1425589 |
| Chlorobenzene | ND | | 0.00250 | 1 | 02/11/2020 02:14 | WG1425589 |
| Chlorodibromomethane | ND | | 0.00250 | 1 | 02/11/2020 02:14 | WG1425589 |
| Chloroethane | ND | | 0.00500 | 1 | 02/11/2020 02:14 | WG1425589 |
| Chloroform | ND | | 0.00250 | 1 | 02/11/2020 02:14 | WG1425589 |
| Chloromethane | ND | | 0.0125 | 1 | 02/11/2020 02:14 | WG1425589 |
| Dibromomethane | ND | | 0.00500 | 1 | 02/11/2020 02:14 | WG1425589 |
| Dichlorodifluoromethane | ND | | 0.00250 | 1 | 02/11/2020 02:14 | WG1425589 |
| Di-isopropyl ether | ND | | 0.00100 | 1 | 02/11/2020 02:14 | WG1425589 |
| Ethylbenzene | ND | | 0.00250 | 1 | 02/11/2020 02:14 | WG1425589 |
| Hexachloro-1,3-butadiene | ND | | 0.0250 | 1 | 02/11/2020 02:14 | WG1425589 |
| Isopropylbenzene | ND | | 0.00250 | 1 | 02/11/2020 02:14 | WG1425589 |
| Methyl tert-butyl ether | ND | | 0.00100 | 1 | 02/11/2020 02:14 | WG1425589 |
| Methylene Chloride | ND | | 0.0250 | 1 | 02/11/2020 02:14 | WG1425589 |
| Naphthalene | ND | | 0.0125 | 1 | 02/11/2020 02:14 | WG1425589 |
| Styrene | ND | | 0.0125 | 1 | 02/11/2020 02:14 | WG1425589 |
| Tetrachloroethene | ND | | 0.00250 | 1 | 02/11/2020 02:14 | WG1425589 |
| Toluene | ND | | 0.00500 | 1 | 02/11/2020 02:14 | WG1425589 |
| Trichloroethene | ND | | 0.00100 | 1 | 02/11/2020 02:14 | WG1425589 |
| Trichlorofluoromethane | ND | J4 | 0.00250 | 1 | 02/11/2020 02:14 | WG1425589 |
| Vinyl chloride | ND | | 0.00250 | 1 | 02/11/2020 02:14 | WG1425589 |
| Xylenes, Total | ND | | 0.00650 | 1 | 02/11/2020 02:14 | WG1425589 |
| cis-1,2-Dichloroethene | ND | | 0.00250 | 1 | 02/11/2020 02:14 | WG1425589 |
| trans-1,2-Dichloroethene | ND | | 0.00500 | 1 | 02/11/2020 02:14 | WG1425589 |
| n-Butylbenzene | ND | | 0.0125 | 1 | 02/11/2020 02:14 | WG1425589 |
| n-Propylbenzene | ND | | 0.00500 | 1 | 02/11/2020 02:14 | WG1425589 |
| p-Isopropyltoluene | ND | | 0.00500 | 1 | 02/11/2020 02:14 | WG1425589 |
| sec-Butylbenzene | ND | | 0.0125 | 1 | 02/11/2020 02:14 | WG1425589 |
| tert-Butylbenzene | ND | | 0.00500 | 1 | 02/11/2020 02:14 | WG1425589 |
| cis-1,3-Dichloropropene | ND | | 0.00250 | 1 | 02/11/2020 02:14 | WG1425589 |
| trans-1,3-Dichloropropene | ND | | 0.00500 | 1 | 02/11/2020 02:14 | WG1425589 |
| *(S) Toluene-d8* | *102* | | *75.0-131* | | *02/11/2020 02:14* | WG1425589 |
| *(S) 4-Bromofluorobenzene* | *101* | | *67.0-138* | | *02/11/2020 02:14* | WG1425589 |
| *(S) 1,2-Dichloroethane-d4* | *101* | | *70.0-130* | | *02/11/2020 02:14* | WG1425589 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| PCB 1016 | ND | | 0.0170 | 1 | 02/14/2020 11:35 | WG1427430 |
| PCB 1221 | ND | | 0.0170 | 1 | 02/14/2020 11:35 | WG1427430 |
| PCB 1232 | ND | | 0.0170 | 1 | 02/14/2020 11:35 | WG1427430 |
| PCB 1242 | ND | | 0.0170 | 1 | 02/14/2020 11:35 | WG1427430 |
| PCB 1248 | ND | | 0.0170 | 1 | 02/14/2020 11:35 | WG1427430 |
| PCB 1254 | ND | | 0.0170 | 1 | 02/14/2020 11:35 | WG1427430 |
| PCB 1260 | ND | | 0.0170 | 1 | 02/14/2020 11:35 | WG1427430 |
| *(S) Decachlorobiphenyl* | *47.5* | | *10.0-135* | | *02/14/2020 11:35* | WG1427430 |
| *(S) Tetrachloro-m-xylene* | *50.4* | | *10.0-139* | | *02/14/2020 11:35* | WG1427430 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Anthracene | ND | | 0.00600 | 1 | 02/13/2020 01:26 | WG1426708 |
| Acenaphthene | ND | | 0.00600 | 1 | 02/13/2020 01:26 | WG1426708 |
| Acenaphthylene | ND | | 0.00600 | 1 | 02/13/2020 01:26 | WG1426708 |
| Benzo(a)anthracene | ND | | 0.00600 | 1 | 02/13/2020 01:26 | WG1426708 |
| Benzo(a)pyrene | ND | | 0.00600 | 1 | 02/13/2020 01:26 | WG1426708 |
| Benzo(b)fluoranthene | 0.00630 | | 0.00600 | 1 | 02/13/2020 01:26 | WG1426708 |
| Benzo(g,h,i)perylene | ND | | 0.00600 | 1 | 02/13/2020 01:26 | WG1426708 |
| Benzo(k)fluoranthene | ND | | 0.00600 | 1 | 02/13/2020 01:26 | WG1426708 |
| Chrysene | ND | | 0.00600 | 1 | 02/13/2020 01:26 | WG1426708 |
| Dibenz(a,h)anthracene | ND | | 0.00600 | 1 | 02/13/2020 01:26 | WG1426708 |
| Fluoranthene | 0.0135 | | 0.00600 | 1 | 02/13/2020 01:26 | WG1426708 |
| Fluorene | ND | | 0.00600 | 1 | 02/13/2020 01:26 | WG1426708 |
| Indeno(1,2,3-cd)pyrene | ND | | 0.00600 | 1 | 02/13/2020 01:26 | WG1426708 |
| Naphthalene | ND | | 0.0200 | 1 | 02/13/2020 01:26 | WG1426708 |
| Phenanthrene | 0.0105 | | 0.00600 | 1 | 02/13/2020 01:26 | WG1426708 |
| Pyrene | 0.0120 | | 0.00600 | 1 | 02/13/2020 01:26 | WG1426708 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 01:26 | WG1426708 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 01:26 | WG1426708 |
| 2-Chloronaphthalene | ND | | 0.0200 | 1 | 02/13/2020 01:26 | WG1426708 |
| *(S) p-Terphenyl-d14* | *103* | | *23.0-120* | | *02/13/2020 01:26* | WG1426708 |
| *(S) Nitrobenzene-d5* | *128* | | *14.0-149* | | *02/13/2020 01:26* | WG1426708 |
| *(S) 2-Fluorobiphenyl* | *94.8* | | *34.0-125* | | *02/13/2020 01:26* | WG1426708 |

## Total Solids by Method 2540 G-2011

| Analyte | Result % | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| Total Solids | 77.8 | | 1 | 02/12/2020 21:57 | WG1426304 |

## Mercury by Method 7471A

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0300 | 1 | 02/10/2020 20:10 | WG1424896 |

## Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Arsenic | 4.05 | B | 2.00 | 1 | 02/11/2020 11:17 | WG1424912 |
| Barium | 118 | | 0.500 | 1 | 02/11/2020 11:17 | WG1424912 |
| Cadmium | ND | | 0.500 | 1 | 02/11/2020 11:17 | WG1424912 |
| Chromium | 16.0 | | 1.00 | 1 | 02/11/2020 11:17 | WG1424912 |
| Lead | 8.84 | | 0.500 | 1 | 02/11/2020 11:17 | WG1424912 |
| Selenium | ND | | 2.00 | 1 | 02/11/2020 11:17 | WG1424912 |
| Silver | ND | | 1.00 | 1 | 02/11/2020 11:17 | WG1424912 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:33 | WG1425589 |
| 1,1,1-Trichloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:33 | WG1425589 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:33 | WG1425589 |
| 1,1,2-Trichloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:33 | WG1425589 |
| 1,1,2-Trichlorotrifluoroethane | ND | | 0.00250 | 1 | 02/11/2020 02:33 | WG1425589 |
| 1,1-Dichloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:33 | WG1425589 |
| 1,1-Dichloroethene | ND | | 0.00250 | 1 | 02/11/2020 02:33 | WG1425589 |
| 1,1-Dichloropropene | ND | | 0.00250 | 1 | 02/11/2020 02:33 | WG1425589 |
| 1,2,3-Trichlorobenzene | ND | | 0.0125 | 1 | 02/11/2020 02:33 | WG1425589 |
| 1,2,3-Trichloropropane | ND | | 0.0125 | 1 | 02/11/2020 02:33 | WG1425589 |
| 1,2,3-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 02:33 | WG1425589 |
| 1,2,4-Trichlorobenzene | ND | | 0.0125 | 1 | 02/11/2020 02:33 | WG1425589 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 02:33 | WG1425589 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0250 | 1 | 02/11/2020 02:33 | WG1425589 |
| 1,2-Dibromoethane | ND | | 0.00250 | 1 | 02/11/2020 02:33 | WG1425589 |
| 1,2-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 02:33 | WG1425589 |
| 1,2-Dichloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:33 | WG1425589 |
| 1,2-Dichloropropane | ND | | 0.00500 | 1 | 02/11/2020 02:33 | WG1425589 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 02:33 | WG1425589 |
| 1,3-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 02:33 | WG1425589 |
| 1,3-Dichloropropane | ND | | 0.00500 | 1 | 02/11/2020 02:33 | WG1425589 |
| 1,4-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 02:33 | WG1425589 |
| 2,2-Dichloropropane | ND | | 0.00250 | 1 | 02/11/2020 02:33 | WG1425589 |
| 2-Butanone (MEK) | ND | | 0.0250 | 1 | 02/11/2020 02:33 | WG1425589 |
| 2-Chlorotoluene | ND | | 0.00250 | 1 | 02/11/2020 02:33 | WG1425589 |
| 4-Chlorotoluene | ND | | 0.00500 | 1 | 02/11/2020 02:33 | WG1425589 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0250 | 1 | 02/11/2020 02:33 | WG1425589 |
| Acetone | ND | | 0.0250 | 1 | 02/11/2020 02:33 | WG1425589 |
| Acrylonitrile | ND | | 0.0125 | 1 | 02/11/2020 02:33 | WG1425589 |
| Benzene | ND | | 0.00100 | 1 | 02/11/2020 02:33 | WG1425589 |
| Bromobenzene | ND | | 0.0125 | 1 | 02/11/2020 02:33 | WG1425589 |
| Bromodichloromethane | ND | | 0.00250 | 1 | 02/11/2020 02:33 | WG1425589 |
| Bromoform | ND | | 0.0250 | 1 | 02/11/2020 02:33 | WG1425589 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Bromomethane | ND | | 0.0125 | 1 | 02/11/2020 02:33 | WG1425589 |
| Carbon tetrachloride | ND | J4 | 0.00500 | 1 | 02/11/2020 02:33 | WG1425589 |
| Chlorobenzene | ND | | 0.00250 | 1 | 02/11/2020 02:33 | WG1425589 |
| Chlorodibromomethane | ND | | 0.00250 | 1 | 02/11/2020 02:33 | WG1425589 |
| Chloroethane | ND | | 0.00500 | 1 | 02/11/2020 02:33 | WG1425589 |
| Chloroform | ND | | 0.00250 | 1 | 02/11/2020 02:33 | WG1425589 |
| Chloromethane | ND | | 0.0125 | 1 | 02/11/2020 02:33 | WG1425589 |
| Dibromomethane | ND | | 0.00500 | 1 | 02/11/2020 02:33 | WG1425589 |
| Dichlorodifluoromethane | ND | | 0.00250 | 1 | 02/11/2020 02:33 | WG1425589 |
| Di-isopropyl ether | ND | | 0.00100 | 1 | 02/11/2020 02:33 | WG1425589 |
| Ethylbenzene | ND | | 0.00250 | 1 | 02/11/2020 02:33 | WG1425589 |
| Hexachloro-1,3-butadiene | ND | | 0.0250 | 1 | 02/11/2020 02:33 | WG1425589 |
| Isopropylbenzene | ND | | 0.00250 | 1 | 02/11/2020 02:33 | WG1425589 |
| Methyl tert-butyl ether | ND | | 0.00100 | 1 | 02/11/2020 02:33 | WG1425589 |
| Methylene Chloride | ND | | 0.0250 | 1 | 02/11/2020 02:33 | WG1425589 |
| Naphthalene | ND | | 0.0125 | 1 | 02/11/2020 02:33 | WG1425589 |
| Styrene | ND | | 0.0125 | 1 | 02/11/2020 02:33 | WG1425589 |
| Tetrachloroethene | ND | | 0.00250 | 1 | 02/11/2020 02:33 | WG1425589 |
| Toluene | ND | | 0.00500 | 1 | 02/11/2020 02:33 | WG1425589 |
| Trichloroethene | ND | | 0.00100 | 1 | 02/11/2020 02:33 | WG1425589 |
| Trichlorofluoromethane | ND | J4 | 0.00250 | 1 | 02/11/2020 02:33 | WG1425589 |
| Vinyl chloride | ND | | 0.00250 | 1 | 02/11/2020 02:33 | WG1425589 |
| Xylenes, Total | ND | | 0.00650 | 1 | 02/11/2020 02:33 | WG1425589 |
| cis-1,2-Dichloroethene | ND | | 0.00250 | 1 | 02/11/2020 02:33 | WG1425589 |
| trans-1,2-Dichloroethene | ND | | 0.00500 | 1 | 02/11/2020 02:33 | WG1425589 |
| n-Butylbenzene | ND | | 0.0125 | 1 | 02/11/2020 02:33 | WG1425589 |
| n-Propylbenzene | ND | | 0.00500 | 1 | 02/11/2020 02:33 | WG1425589 |
| p-Isopropyltoluene | ND | | 0.00500 | 1 | 02/11/2020 02:33 | WG1425589 |
| sec-Butylbenzene | ND | | 0.0125 | 1 | 02/11/2020 02:33 | WG1425589 |
| tert-Butylbenzene | ND | | 0.00500 | 1 | 02/11/2020 02:33 | WG1425589 |
| cis-1,3-Dichloropropene | ND | | 0.00250 | 1 | 02/11/2020 02:33 | WG1425589 |
| trans-1,3-Dichloropropene | ND | | 0.00500 | 1 | 02/11/2020 02:33 | WG1425589 |
| *(S) Toluene-d8* | *97.9* | | *75.0-131* | | *02/11/2020 02:33* | WG1425589 |
| *(S) 4-Bromofluorobenzene* | *103* | | *67.0-138* | | *02/11/2020 02:33* | WG1425589 |
| *(S) 1,2-Dichloroethane-d4* | *99.9* | | *70.0-130* | | *02/11/2020 02:33* | WG1425589 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| PCB 1016 | ND | | 0.0170 | 1 | 02/14/2020 11:51 | WG1427430 |
| PCB 1221 | ND | | 0.0170 | 1 | 02/14/2020 11:51 | WG1427430 |
| PCB 1232 | ND | | 0.0170 | 1 | 02/14/2020 11:51 | WG1427430 |
| PCB 1242 | ND | | 0.0170 | 1 | 02/14/2020 11:51 | WG1427430 |
| PCB 1248 | ND | | 0.0170 | 1 | 02/14/2020 11:51 | WG1427430 |
| PCB 1254 | ND | | 0.0170 | 1 | 02/14/2020 11:51 | WG1427430 |
| PCB 1260 | ND | | 0.0170 | 1 | 02/14/2020 11:51 | WG1427430 |
| *(S) Decachlorobiphenyl* | *66.5* | | *10.0-135* | | *02/14/2020 11:51* | WG1427430 |
| *(S) Tetrachloro-m-xylene* | *60.5* | | *10.0-139* | | *02/14/2020 11:51* | WG1427430 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Anthracene | ND | | 0.00600 | 1 | 02/13/2020 01:48 | WG1426708 |
| Acenaphthene | ND | | 0.00600 | 1 | 02/13/2020 01:48 | WG1426708 |
| Acenaphthylene | ND | | 0.00600 | 1 | 02/13/2020 01:48 | WG1426708 |
| Benzo(a)anthracene | 0.0213 | | 0.00600 | 1 | 02/13/2020 01:48 | WG1426708 |
| Benzo(a)pyrene | 0.0235 | | 0.00600 | 1 | 02/13/2020 01:48 | WG1426708 |
| Benzo(b)fluoranthene | 0.0424 | | 0.00600 | 1 | 02/13/2020 01:48 | WG1426708 |
| Benzo(g,h,i)perylene | 0.0206 | | 0.00600 | 1 | 02/13/2020 01:48 | WG1426708 |
| Benzo(k)fluoranthene | 0.0107 | | 0.00600 | 1 | 02/13/2020 01:48 | WG1426708 |
| Chrysene | 0.0285 | | 0.00600 | 1 | 02/13/2020 01:48 | WG1426708 |
| Dibenz(a,h)anthracene | ND | | 0.00600 | 1 | 02/13/2020 01:48 | WG1426708 |
| Fluoranthene | 0.0835 | | 0.00600 | 1 | 02/13/2020 01:48 | WG1426708 |
| Fluorene | ND | | 0.00600 | 1 | 02/13/2020 01:48 | WG1426708 |
| Indeno(1,2,3-cd)pyrene | 0.0178 | | 0.00600 | 1 | 02/13/2020 01:48 | WG1426708 |
| Naphthalene | ND | | 0.0200 | 1 | 02/13/2020 01:48 | WG1426708 |
| Phenanthrene | 0.0460 | | 0.00600 | 1 | 02/13/2020 01:48 | WG1426708 |
| Pyrene | 0.0791 | | 0.00600 | 1 | 02/13/2020 01:48 | WG1426708 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 01:48 | WG1426708 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 01:48 | WG1426708 |
| 2-Chloronaphthalene | ND | | 0.0200 | 1 | 02/13/2020 01:48 | WG1426708 |
| *(S) p-Terphenyl-d14* | *96.0* | | *23.0-120* | | *02/13/2020 01:48* | WG1426708 |
| *(S) Nitrobenzene-d5* | *119* | | *14.0-149* | | *02/13/2020 01:48* | WG1426708 |
| *(S) 2-Fluorobiphenyl* | *86.1* | | *34.0-125* | | *02/13/2020 01:48* | WG1426708 |

## Total Solids by Method 2540 G-2011

| Analyte | Result % | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| Total Solids | 77.2 | | 1 | 02/12/2020 21:57 | WG1426304 |

## Mercury by Method 7471A

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0300 | 1 | 02/10/2020 20:12 | WG1424896 |

## Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Arsenic | 5.87 | | 2.00 | 1 | 02/11/2020 11:25 | WG1424912 |
| Barium | 155 | | 0.500 | 1 | 02/11/2020 11:25 | WG1424912 |
| Cadmium | ND | | 0.500 | 1 | 02/11/2020 11:25 | WG1424912 |
| Chromium | 15.4 | | 1.00 | 1 | 02/11/2020 11:25 | WG1424912 |
| Lead | 8.68 | | 0.500 | 1 | 02/11/2020 11:25 | WG1424912 |
| Selenium | ND | | 2.00 | 1 | 02/11/2020 11:25 | WG1424912 |
| Silver | ND | | 1.00 | 1 | 02/11/2020 11:25 | WG1424912 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:52 | WG1425589 |
| 1,1,1-Trichloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:52 | WG1425589 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:52 | WG1425589 |
| 1,1,2-Trichloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:52 | WG1425589 |
| 1,1,2-Trichlorotrifluoroethane | ND | | 0.00250 | 1 | 02/11/2020 02:52 | WG1425589 |
| 1,1-Dichloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:52 | WG1425589 |
| 1,1-Dichloroethene | ND | | 0.00250 | 1 | 02/11/2020 02:52 | WG1425589 |
| 1,1-Dichloropropene | ND | | 0.00250 | 1 | 02/11/2020 02:52 | WG1425589 |
| 1,2,3-Trichlorobenzene | ND | | 0.0125 | 1 | 02/11/2020 02:52 | WG1425589 |
| 1,2,3-Trichloropropane | ND | | 0.0125 | 1 | 02/11/2020 02:52 | WG1425589 |
| 1,2,3-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 02:52 | WG1425589 |
| 1,2,4-Trichlorobenzene | ND | | 0.0125 | 1 | 02/11/2020 02:52 | WG1425589 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 02:52 | WG1425589 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0250 | 1 | 02/11/2020 02:52 | WG1425589 |
| 1,2-Dibromoethane | ND | | 0.00250 | 1 | 02/11/2020 02:52 | WG1425589 |
| 1,2-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 02:52 | WG1425589 |
| 1,2-Dichloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:52 | WG1425589 |
| 1,2-Dichloropropane | ND | | 0.00500 | 1 | 02/11/2020 02:52 | WG1425589 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 02:52 | WG1425589 |
| 1,3-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 02:52 | WG1425589 |
| 1,3-Dichloropropane | ND | | 0.00500 | 1 | 02/11/2020 02:52 | WG1425589 |
| 1,4-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 02:52 | WG1425589 |
| 2,2-Dichloropropane | ND | | 0.00250 | 1 | 02/11/2020 02:52 | WG1425589 |
| 2-Butanone (MEK) | ND | | 0.0250 | 1 | 02/11/2020 02:52 | WG1425589 |
| 2-Chlorotoluene | ND | | 0.00250 | 1 | 02/11/2020 02:52 | WG1425589 |
| 4-Chlorotoluene | ND | | 0.00500 | 1 | 02/11/2020 02:52 | WG1425589 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0250 | 1 | 02/11/2020 02:52 | WG1425589 |
| Acetone | ND | | 0.0250 | 1 | 02/11/2020 02:52 | WG1425589 |
| Acrylonitrile | ND | | 0.0125 | 1 | 02/11/2020 02:52 | WG1425589 |
| Benzene | ND | | 0.00100 | 1 | 02/11/2020 02:52 | WG1425589 |
| Bromobenzene | ND | | 0.0125 | 1 | 02/11/2020 02:52 | WG1425589 |
| Bromodichloromethane | ND | | 0.00250 | 1 | 02/11/2020 02:52 | WG1425589 |
| Bromoform | ND | | 0.0250 | 1 | 02/11/2020 02:52 | WG1425589 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Bromomethane | ND | | 0.0125 | 1 | 02/11/2020 02:52 | WG1425589 |
| Carbon tetrachloride | ND | J4 | 0.00500 | 1 | 02/11/2020 02:52 | WG1425589 |
| Chlorobenzene | ND | | 0.00250 | 1 | 02/11/2020 02:52 | WG1425589 |
| Chlorodibromomethane | ND | | 0.00250 | 1 | 02/11/2020 02:52 | WG1425589 |
| Chloroethane | ND | | 0.00500 | 1 | 02/11/2020 02:52 | WG1425589 |
| Chloroform | ND | | 0.00250 | 1 | 02/11/2020 02:52 | WG1425589 |
| Chloromethane | ND | | 0.0125 | 1 | 02/11/2020 02:52 | WG1425589 |
| Dibromomethane | ND | | 0.00500 | 1 | 02/11/2020 02:52 | WG1425589 |
| Dichlorodifluoromethane | ND | | 0.00250 | 1 | 02/11/2020 02:52 | WG1425589 |
| Di-isopropyl ether | ND | | 0.00100 | 1 | 02/11/2020 02:52 | WG1425589 |
| Ethylbenzene | ND | | 0.00250 | 1 | 02/11/2020 02:52 | WG1425589 |
| Hexachloro-1,3-butadiene | ND | | 0.0250 | 1 | 02/11/2020 02:52 | WG1425589 |
| Isopropylbenzene | ND | | 0.00250 | 1 | 02/11/2020 02:52 | WG1425589 |
| Methyl tert-butyl ether | ND | | 0.00100 | 1 | 02/11/2020 02:52 | WG1425589 |
| Methylene Chloride | ND | | 0.0250 | 1 | 02/11/2020 02:52 | WG1425589 |
| Naphthalene | ND | | 0.0125 | 1 | 02/11/2020 02:52 | WG1425589 |
| Styrene | ND | | 0.0125 | 1 | 02/11/2020 02:52 | WG1425589 |
| Tetrachloroethene | ND | | 0.00250 | 1 | 02/11/2020 02:52 | WG1425589 |
| Toluene | ND | | 0.00500 | 1 | 02/11/2020 02:52 | WG1425589 |
| Trichloroethene | ND | | 0.00100 | 1 | 02/11/2020 02:52 | WG1425589 |
| Trichlorofluoromethane | ND | J4 | 0.00250 | 1 | 02/11/2020 02:52 | WG1425589 |
| Vinyl chloride | ND | | 0.00250 | 1 | 02/11/2020 02:52 | WG1425589 |
| Xylenes, Total | ND | | 0.00650 | 1 | 02/11/2020 02:52 | WG1425589 |
| cis-1,2-Dichloroethene | ND | | 0.00250 | 1 | 02/11/2020 02:52 | WG1425589 |
| trans-1,2-Dichloroethene | ND | | 0.00500 | 1 | 02/11/2020 02:52 | WG1425589 |
| n-Butylbenzene | ND | | 0.0125 | 1 | 02/11/2020 02:52 | WG1425589 |
| n-Propylbenzene | ND | | 0.00500 | 1 | 02/11/2020 02:52 | WG1425589 |
| p-Isopropyltoluene | ND | | 0.00500 | 1 | 02/11/2020 02:52 | WG1425589 |
| sec-Butylbenzene | ND | | 0.0125 | 1 | 02/11/2020 02:52 | WG1425589 |
| tert-Butylbenzene | ND | | 0.00500 | 1 | 02/11/2020 02:52 | WG1425589 |
| cis-1,3-Dichloropropene | ND | | 0.00250 | 1 | 02/11/2020 02:52 | WG1425589 |
| trans-1,3-Dichloropropene | ND | | 0.00500 | 1 | 02/11/2020 02:52 | WG1425589 |
| *(S) Toluene-d8* | *97.1* | | *75.0-131* | | *02/11/2020 02:52* | WG1425589 |
| *(S) 4-Bromofluorobenzene* | *97.6* | | *67.0-138* | | *02/11/2020 02:52* | WG1425589 |
| *(S) 1,2-Dichloroethane-d4* | *101* | | *70.0-130* | | *02/11/2020 02:52* | WG1425589 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| PCB 1016 | ND | | 0.0170 | 1 | 02/14/2020 12:07 | WG1427430 |
| PCB 1221 | ND | | 0.0170 | 1 | 02/14/2020 12:07 | WG1427430 |
| PCB 1232 | ND | | 0.0170 | 1 | 02/14/2020 12:07 | WG1427430 |
| PCB 1242 | ND | | 0.0170 | 1 | 02/14/2020 12:07 | WG1427430 |
| PCB 1248 | ND | | 0.0170 | 1 | 02/14/2020 12:07 | WG1427430 |
| PCB 1254 | ND | | 0.0170 | 1 | 02/14/2020 12:07 | WG1427430 |
| PCB 1260 | ND | | 0.0170 | 1 | 02/14/2020 12:07 | WG1427430 |
| *(S) Decachlorobiphenyl* | *52.0* | | *10.0-135* | | *02/14/2020 12:07* | WG1427430 |
| *(S) Tetrachloro-m-xylene* | *47.9* | | *10.0-139* | | *02/14/2020 12:07* | WG1427430 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Anthracene | ND | | 0.00600 | 1 | 02/12/2020 23:58 | WG1426708 |
| Acenaphthene | ND | | 0.00600 | 1 | 02/12/2020 23:58 | WG1426708 |
| Acenaphthylene | ND | | 0.00600 | 1 | 02/12/2020 23:58 | WG1426708 |
| Benzo(a)anthracene | ND | | 0.00600 | 1 | 02/12/2020 23:58 | WG1426708 |
| Benzo(a)pyrene | ND | | 0.00600 | 1 | 02/12/2020 23:58 | WG1426708 |
| Benzo(b)fluoranthene | ND | | 0.00600 | 1 | 02/12/2020 23:58 | WG1426708 |
| Benzo(g,h,i)perylene | ND | | 0.00600 | 1 | 02/12/2020 23:58 | WG1426708 |
| Benzo(k)fluoranthene | ND | | 0.00600 | 1 | 02/12/2020 23:58 | WG1426708 |
| Chrysene | ND | | 0.00600 | 1 | 02/12/2020 23:58 | WG1426708 |
| Dibenz(a,h)anthracene | ND | | 0.00600 | 1 | 02/12/2020 23:58 | WG1426708 |
| Fluoranthene | ND | | 0.00600 | 1 | 02/12/2020 23:58 | WG1426708 |
| Fluorene | ND | | 0.00600 | 1 | 02/12/2020 23:58 | WG1426708 |
| Indeno(1,2,3-cd)pyrene | ND | | 0.00600 | 1 | 02/12/2020 23:58 | WG1426708 |
| Naphthalene | ND | | 0.0200 | 1 | 02/12/2020 23:58 | WG1426708 |
| Phenanthrene | ND | | 0.00600 | 1 | 02/12/2020 23:58 | WG1426708 |
| Pyrene | ND | | 0.00600 | 1 | 02/12/2020 23:58 | WG1426708 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 02/12/2020 23:58 | WG1426708 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 02/12/2020 23:58 | WG1426708 |
| 2-Chloronaphthalene | ND | | 0.0200 | 1 | 02/12/2020 23:58 | WG1426708 |
| *(S) p-Terphenyl-d14* | *103* | | *23.0-120* | | *02/12/2020 23:58* | WG1426708 |
| *(S) Nitrobenzene-d5* | *124* | | *14.0-149* | | *02/12/2020 23:58* | WG1426708 |
| *(S) 2-Fluorobiphenyl* | *91.5* | | *34.0-125* | | *02/12/2020 23:58* | WG1426708 |

## Preparation by Method 1311

| Analyte | Result | Qualifier | Prep date / time | Batch |
|---|---|---|---|---|
| TCLP Extraction | - | | 2/12/2020 5:04:45 PM | WG1426879 |
| Fluid | 1 | | 2/12/2020 5:04:45 PM | WG1426879 |
| Initial pH | 7.50 | | 2/12/2020 5:04:45 PM | WG1426879 |
| Final pH | 4.91 | | 2/12/2020 5:04:45 PM | WG1426879 |

## Mercury by Method 7470A

| Analyte | Result mg/l | Qualifier | RDL mg/l | Limit mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0100 | 0.20 | 1 | 02/13/2020 21:39 | WG1427630 |

## Metals (ICP) by Method 6010B

| Analyte | Result mg/l | Qualifier | RDL mg/l | Limit mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.100 | 5 | 1 | 02/13/2020 23:59 | WG1427686 |
| Barium | 1.58 | | 0.100 | 100 | 1 | 02/13/2020 23:59 | WG1427686 |
| Cadmium | ND | | 0.100 | 1 | 1 | 02/13/2020 23:59 | WG1427686 |
| Chromium | ND | | 0.100 | 5 | 1 | 02/13/2020 23:59 | WG1427686 |
| Lead | ND | | 0.100 | 5 | 1 | 02/13/2020 23:59 | WG1427686 |
| Selenium | ND | | 0.100 | 1 | 1 | 02/13/2020 23:59 | WG1427686 |
| Silver | ND | | 0.100 | 5 | 1 | 02/13/2020 23:59 | WG1427686 |

## Total Solids by Method 2540 G-2011

| Analyte | Result % | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| Total Solids | 79.0 | | 1 | 02/12/2020 21:57 | WG1426304 |

## Mercury by Method 7471A

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0300 | 1 | 02/10/2020 20:15 | WG1424896 |

## Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Arsenic | ND | | 2.00 | 1 | 02/11/2020 11:28 | WG1424912 |
| Barium | 186 | | 0.500 | 1 | 02/11/2020 11:28 | WG1424912 |
| Cadmium | ND | | 0.500 | 1 | 02/11/2020 11:28 | WG1424912 |
| Chromium | 8.12 | | 1.00 | 1 | 02/11/2020 11:28 | WG1424912 |
| Lead | 6.66 | | 0.500 | 1 | 02/11/2020 11:28 | WG1424912 |
| Selenium | ND | | 2.00 | 1 | 02/11/2020 11:28 | WG1424912 |
| Silver | ND | | 1.00 | 1 | 02/11/2020 11:28 | WG1424912 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/11/2020 03:11 | WG1425589 |
| 1,1,1-Trichloroethane | ND | | 0.00250 | 1 | 02/11/2020 03:11 | WG1425589 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/11/2020 03:11 | WG1425589 |
| 1,1,2-Trichloroethane | ND | | 0.00250 | 1 | 02/11/2020 03:11 | WG1425589 |
| 1,1,2-Trichlorotrifluoroethane | ND | | 0.00250 | 1 | 02/11/2020 03:11 | WG1425589 |
| 1,1-Dichloroethane | ND | | 0.00250 | 1 | 02/11/2020 03:11 | WG1425589 |
| 1,1-Dichloroethene | ND | | 0.00250 | 1 | 02/11/2020 03:11 | WG1425589 |
| 1,1-Dichloropropene | ND | | 0.00250 | 1 | 02/11/2020 03:11 | WG1425589 |
| 1,2,3-Trichlorobenzene | ND | | 0.0125 | 1 | 02/11/2020 03:11 | WG1425589 |
| 1,2,3-Trichloropropane | ND | | 0.0125 | 1 | 02/11/2020 03:11 | WG1425589 |
| 1,2,3-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 03:11 | WG1425589 |
| 1,2,4-Trichlorobenzene | ND | | 0.0125 | 1 | 02/11/2020 03:11 | WG1425589 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 03:11 | WG1425589 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0250 | 1 | 02/11/2020 03:11 | WG1425589 |
| 1,2-Dibromoethane | ND | | 0.00250 | 1 | 02/11/2020 03:11 | WG1425589 |
| 1,2-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 03:11 | WG1425589 |
| 1,2-Dichloroethane | ND | | 0.00250 | 1 | 02/11/2020 03:11 | WG1425589 |
| 1,2-Dichloropropane | ND | | 0.00500 | 1 | 02/11/2020 03:11 | WG1425589 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 03:11 | WG1425589 |
| 1,3-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 03:11 | WG1425589 |
| 1,3-Dichloropropane | ND | | 0.00500 | 1 | 02/11/2020 03:11 | WG1425589 |
| 1,4-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 03:11 | WG1425589 |
| 2,2-Dichloropropane | ND | | 0.00250 | 1 | 02/11/2020 03:11 | WG1425589 |
| 2-Butanone (MEK) | 0.0344 | B | 0.0250 | 1 | 02/11/2020 03:11 | WG1425589 |
| 2-Chlorotoluene | ND | | 0.00250 | 1 | 02/11/2020 03:11 | WG1425589 |
| 4-Chlorotoluene | ND | | 0.00500 | 1 | 02/11/2020 03:11 | WG1425589 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0250 | 1 | 02/11/2020 03:11 | WG1425589 |
| Acetone | ND | | 0.0250 | 1 | 02/11/2020 03:11 | WG1425589 |
| Acrylonitrile | ND | | 0.0125 | 1 | 02/11/2020 03:11 | WG1425589 |
| Benzene | ND | | 0.00100 | 1 | 02/11/2020 03:11 | WG1425589 |
| Bromobenzene | ND | | 0.0125 | 1 | 02/11/2020 03:11 | WG1425589 |
| Bromodichloromethane | ND | | 0.00250 | 1 | 02/11/2020 03:11 | WG1425589 |
| Bromoform | ND | | 0.0250 | 1 | 02/11/2020 03:11 | WG1425589 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Bromomethane | ND | | 0.0125 | 1 | 02/11/2020 03:11 | WG1425589 |
| Carbon tetrachloride | ND | J4 | 0.00500 | 1 | 02/11/2020 03:11 | WG1425589 |
| Chlorobenzene | ND | | 0.00250 | 1 | 02/11/2020 03:11 | WG1425589 |
| Chlorodibromomethane | ND | | 0.00250 | 1 | 02/11/2020 03:11 | WG1425589 |
| Chloroethane | ND | | 0.00500 | 1 | 02/11/2020 03:11 | WG1425589 |
| Chloroform | ND | | 0.00250 | 1 | 02/11/2020 03:11 | WG1425589 |
| Chloromethane | ND | | 0.0125 | 1 | 02/11/2020 03:11 | WG1425589 |
| Dibromomethane | ND | | 0.00500 | 1 | 02/11/2020 03:11 | WG1425589 |
| Dichlorodifluoromethane | ND | | 0.00250 | 1 | 02/11/2020 03:11 | WG1425589 |
| Di-isopropyl ether | ND | | 0.00100 | 1 | 02/11/2020 03:11 | WG1425589 |
| Ethylbenzene | ND | | 0.00250 | 1 | 02/11/2020 03:11 | WG1425589 |
| Hexachloro-1,3-butadiene | ND | | 0.0250 | 1 | 02/11/2020 03:11 | WG1425589 |
| Isopropylbenzene | ND | | 0.00250 | 1 | 02/11/2020 03:11 | WG1425589 |
| Methyl tert-butyl ether | ND | | 0.00100 | 1 | 02/11/2020 03:11 | WG1425589 |
| Methylene Chloride | ND | | 0.0250 | 1 | 02/11/2020 03:11 | WG1425589 |
| Naphthalene | ND | | 0.0125 | 1 | 02/11/2020 03:11 | WG1425589 |
| Styrene | ND | | 0.0125 | 1 | 02/11/2020 03:11 | WG1425589 |
| Tetrachloroethene | ND | | 0.00250 | 1 | 02/11/2020 03:11 | WG1425589 |
| Toluene | ND | | 0.00500 | 1 | 02/11/2020 03:11 | WG1425589 |
| Trichloroethene | ND | | 0.00100 | 1 | 02/11/2020 03:11 | WG1425589 |
| Trichlorofluoromethane | ND | J4 | 0.00250 | 1 | 02/11/2020 03:11 | WG1425589 |
| Vinyl chloride | ND | | 0.00250 | 1 | 02/11/2020 03:11 | WG1425589 |
| Xylenes, Total | ND | | 0.00650 | 1 | 02/11/2020 03:11 | WG1425589 |
| cis-1,2-Dichloroethene | ND | | 0.00250 | 1 | 02/11/2020 03:11 | WG1425589 |
| trans-1,2-Dichloroethene | ND | | 0.00500 | 1 | 02/11/2020 03:11 | WG1425589 |
| n-Butylbenzene | ND | | 0.0125 | 1 | 02/11/2020 03:11 | WG1425589 |
| n-Propylbenzene | ND | | 0.00500 | 1 | 02/11/2020 03:11 | WG1425589 |
| p-Isopropyltoluene | ND | | 0.00500 | 1 | 02/11/2020 03:11 | WG1425589 |
| sec-Butylbenzene | ND | | 0.0125 | 1 | 02/11/2020 03:11 | WG1425589 |
| tert-Butylbenzene | ND | | 0.00500 | 1 | 02/11/2020 03:11 | WG1425589 |
| cis-1,3-Dichloropropene | ND | | 0.00250 | 1 | 02/11/2020 03:11 | WG1425589 |
| trans-1,3-Dichloropropene | ND | | 0.00500 | 1 | 02/11/2020 03:11 | WG1425589 |
| *(S) Toluene-d8* | *106* | | *75.0-131* | | *02/11/2020 03:11* | WG1425589 |
| *(S) 4-Bromofluorobenzene* | *100* | | *67.0-138* | | *02/11/2020 03:11* | WG1425589 |
| *(S) 1,2-Dichloroethane-d4* | *101* | | *70.0-130* | | *02/11/2020 03:11* | WG1425589 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| PCB 1016 | ND | | 0.0170 | 1 | 02/14/2020 12:39 | WG1427430 |
| PCB 1221 | ND | | 0.0170 | 1 | 02/14/2020 12:39 | WG1427430 |
| PCB 1232 | ND | | 0.0170 | 1 | 02/14/2020 12:39 | WG1427430 |
| PCB 1242 | ND | | 0.0170 | 1 | 02/14/2020 12:39 | WG1427430 |
| PCB 1248 | ND | | 0.0170 | 1 | 02/14/2020 12:39 | WG1427430 |
| PCB 1254 | ND | | 0.0170 | 1 | 02/14/2020 12:39 | WG1427430 |
| PCB 1260 | ND | | 0.0170 | 1 | 02/14/2020 12:39 | WG1427430 |
| *(S) Decachlorobiphenyl* | *72.6* | | *10.0-135* | | *02/14/2020 12:39* | WG1427430 |
| *(S) Tetrachloro-m-xylene* | *63.8* | | *10.0-139* | | *02/14/2020 12:39* | WG1427430 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Anthracene | 0.0299 | | 0.00600 | 1 | 02/13/2020 02:10 | WG1426708 |
| Acenaphthene | 0.0408 | | 0.00600 | 1 | 02/13/2020 02:10 | WG1426708 |
| Acenaphthylene | ND | | 0.00600 | 1 | 02/13/2020 02:10 | WG1426708 |
| Benzo(a)anthracene | 0.189 | | 0.00600 | 1 | 02/13/2020 02:10 | WG1426708 |
| Benzo(a)pyrene | 0.192 | | 0.00600 | 1 | 02/13/2020 02:10 | WG1426708 |
| Benzo(b)fluoranthene | 0.317 | | 0.00600 | 1 | 02/13/2020 02:10 | WG1426708 |
| Benzo(g,h,i)perylene | 0.146 | | 0.00600 | 1 | 02/13/2020 02:10 | WG1426708 |
| Benzo(k)fluoranthene | 0.0913 | | 0.00600 | 1 | 02/13/2020 02:10 | WG1426708 |
| Chrysene | 0.245 | | 0.00600 | 1 | 02/13/2020 02:10 | WG1426708 |
| Dibenz(a,h)anthracene | 0.0378 | | 0.00600 | 1 | 02/13/2020 02:10 | WG1426708 |
| Fluoranthene | 0.657 | | 0.00600 | 1 | 02/13/2020 02:10 | WG1426708 |
| Fluorene | 0.0376 | | 0.00600 | 1 | 02/13/2020 02:10 | WG1426708 |
| Indeno(1,2,3-cd)pyrene | 0.134 | | 0.00600 | 1 | 02/13/2020 02:10 | WG1426708 |
| Naphthalene | ND | | 0.0200 | 1 | 02/13/2020 02:10 | WG1426708 |
| Phenanthrene | 0.607 | | 0.00600 | 1 | 02/13/2020 02:10 | WG1426708 |
| Pyrene | 0.602 | | 0.00600 | 1 | 02/13/2020 02:10 | WG1426708 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 02:10 | WG1426708 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 02:10 | WG1426708 |
| 2-Chloronaphthalene | ND | | 0.0200 | 1 | 02/13/2020 02:10 | WG1426708 |
| *(S) p-Terphenyl-d14* | *101* | | *23.0-120* | | *02/13/2020 02:10* | WG1426708 |
| *(S) Nitrobenzene-d5* | *118* | | *14.0-149* | | *02/13/2020 02:10* | WG1426708 |
| *(S) 2-Fluorobiphenyl* | *86.1* | | *34.0-125* | | *02/13/2020 02:10* | WG1426708 |

## Total Solids by Method 2540 G-2011

| Analyte | Result % | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| Total Solids | 79.7 | | 1 | 02/12/2020 21:57 | WG1426304 |

## Mercury by Method 7471A

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0300 | 1 | 02/10/2020 20:17 | WG1424896 |

## Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Arsenic | 5.05 | | 2.00 | 1 | 02/11/2020 11:31 | WG1424912 |
| Barium | 192 | | 0.500 | 1 | 02/11/2020 11:31 | WG1424912 |
| Cadmium | ND | | 0.500 | 1 | 02/11/2020 11:31 | WG1424912 |
| Chromium | 13.9 | | 1.00 | 1 | 02/11/2020 11:31 | WG1424912 |
| Lead | 7.39 | | 0.500 | 1 | 02/11/2020 11:31 | WG1424912 |
| Selenium | ND | | 2.00 | 1 | 02/11/2020 11:31 | WG1424912 |
| Silver | ND | | 1.00 | 1 | 02/11/2020 11:31 | WG1424912 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/11/2020 03:29 | WG1425589 |
| 1,1,1-Trichloroethane | ND | | 0.00250 | 1 | 02/11/2020 03:29 | WG1425589 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/11/2020 03:29 | WG1425589 |
| 1,1,2-Trichloroethane | ND | | 0.00250 | 1 | 02/11/2020 03:29 | WG1425589 |
| 1,1,2-Trichlorotrifluoroethane | ND | | 0.00250 | 1 | 02/11/2020 03:29 | WG1425589 |
| 1,1-Dichloroethane | ND | | 0.00250 | 1 | 02/11/2020 03:29 | WG1425589 |
| 1,1-Dichloroethene | ND | | 0.00250 | 1 | 02/11/2020 03:29 | WG1425589 |
| 1,1-Dichloropropene | ND | | 0.00250 | 1 | 02/11/2020 03:29 | WG1425589 |
| 1,2,3-Trichlorobenzene | ND | | 0.0125 | 1 | 02/11/2020 03:29 | WG1425589 |
| 1,2,3-Trichloropropane | ND | | 0.0125 | 1 | 02/11/2020 03:29 | WG1425589 |
| 1,2,3-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 03:29 | WG1425589 |
| 1,2,4-Trichlorobenzene | ND | | 0.0125 | 1 | 02/11/2020 03:29 | WG1425589 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 03:29 | WG1425589 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0250 | 1 | 02/11/2020 03:29 | WG1425589 |
| 1,2-Dibromoethane | ND | | 0.00250 | 1 | 02/11/2020 03:29 | WG1425589 |
| 1,2-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 03:29 | WG1425589 |
| 1,2-Dichloroethane | ND | | 0.00250 | 1 | 02/11/2020 03:29 | WG1425589 |
| 1,2-Dichloropropane | ND | | 0.00500 | 1 | 02/11/2020 03:29 | WG1425589 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 03:29 | WG1425589 |
| 1,3-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 03:29 | WG1425589 |
| 1,3-Dichloropropane | ND | | 0.00500 | 1 | 02/11/2020 03:29 | WG1425589 |
| 1,4-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 03:29 | WG1425589 |
| 2,2-Dichloropropane | ND | | 0.00250 | 1 | 02/11/2020 03:29 | WG1425589 |
| 2-Butanone (MEK) | ND | | 0.0250 | 1 | 02/11/2020 03:29 | WG1425589 |
| 2-Chlorotoluene | ND | | 0.00250 | 1 | 02/11/2020 03:29 | WG1425589 |
| 4-Chlorotoluene | ND | | 0.00500 | 1 | 02/11/2020 03:29 | WG1425589 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0250 | 1 | 02/11/2020 03:29 | WG1425589 |
| Acetone | ND | | 0.0250 | 1 | 02/11/2020 03:29 | WG1425589 |
| Acrylonitrile | ND | | 0.0125 | 1 | 02/11/2020 03:29 | WG1425589 |
| Benzene | ND | | 0.00100 | 1 | 02/11/2020 03:29 | WG1425589 |
| Bromobenzene | ND | | 0.0125 | 1 | 02/11/2020 03:29 | WG1425589 |
| Bromodichloromethane | ND | | 0.00250 | 1 | 02/11/2020 03:29 | WG1425589 |
| Bromoform | ND | | 0.0250 | 1 | 02/11/2020 03:29 | WG1425589 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Bromomethane | ND | | 0.0125 | 1 | 02/11/2020 03:29 | WG1425589 |
| Carbon tetrachloride | ND | J4 | 0.00500 | 1 | 02/11/2020 03:29 | WG1425589 |
| Chlorobenzene | ND | | 0.00250 | 1 | 02/11/2020 03:29 | WG1425589 |
| Chlorodibromomethane | ND | | 0.00250 | 1 | 02/11/2020 03:29 | WG1425589 |
| Chloroethane | ND | | 0.00500 | 1 | 02/11/2020 03:29 | WG1425589 |
| Chloroform | ND | | 0.00250 | 1 | 02/11/2020 03:29 | WG1425589 |
| Chloromethane | ND | | 0.0125 | 1 | 02/11/2020 03:29 | WG1425589 |
| Dibromomethane | ND | | 0.00500 | 1 | 02/11/2020 03:29 | WG1425589 |
| Dichlorodifluoromethane | ND | | 0.00250 | 1 | 02/11/2020 03:29 | WG1425589 |
| Di-isopropyl ether | ND | | 0.00100 | 1 | 02/11/2020 03:29 | WG1425589 |
| Ethylbenzene | ND | | 0.00250 | 1 | 02/11/2020 03:29 | WG1425589 |
| Hexachloro-1,3-butadiene | ND | | 0.0250 | 1 | 02/11/2020 03:29 | WG1425589 |
| Isopropylbenzene | ND | | 0.00250 | 1 | 02/11/2020 03:29 | WG1425589 |
| Methyl tert-butyl ether | ND | | 0.00100 | 1 | 02/11/2020 03:29 | WG1425589 |
| Methylene Chloride | ND | | 0.0250 | 1 | 02/11/2020 03:29 | WG1425589 |
| Naphthalene | ND | | 0.0125 | 1 | 02/11/2020 03:29 | WG1425589 |
| Styrene | ND | | 0.0125 | 1 | 02/11/2020 03:29 | WG1425589 |
| Tetrachloroethene | ND | | 0.00250 | 1 | 02/11/2020 03:29 | WG1425589 |
| Toluene | ND | | 0.00500 | 1 | 02/11/2020 03:29 | WG1425589 |
| Trichloroethene | ND | | 0.00100 | 1 | 02/11/2020 03:29 | WG1425589 |
| Trichlorofluoromethane | ND | J4 | 0.00250 | 1 | 02/11/2020 03:29 | WG1425589 |
| Vinyl chloride | ND | | 0.00250 | 1 | 02/11/2020 03:29 | WG1425589 |
| Xylenes, Total | ND | | 0.00650 | 1 | 02/11/2020 03:29 | WG1425589 |
| cis-1,2-Dichloroethene | ND | | 0.00250 | 1 | 02/11/2020 03:29 | WG1425589 |
| trans-1,2-Dichloroethene | ND | | 0.00500 | 1 | 02/11/2020 03:29 | WG1425589 |
| n-Butylbenzene | ND | | 0.0125 | 1 | 02/11/2020 03:29 | WG1425589 |
| n-Propylbenzene | ND | | 0.00500 | 1 | 02/11/2020 03:29 | WG1425589 |
| p-Isopropyltoluene | ND | | 0.00500 | 1 | 02/11/2020 03:29 | WG1425589 |
| sec-Butylbenzene | ND | | 0.0125 | 1 | 02/11/2020 03:29 | WG1425589 |
| tert-Butylbenzene | ND | | 0.00500 | 1 | 02/11/2020 03:29 | WG1425589 |
| cis-1,3-Dichloropropene | ND | | 0.00250 | 1 | 02/11/2020 03:29 | WG1425589 |
| trans-1,3-Dichloropropene | ND | | 0.00500 | 1 | 02/11/2020 03:29 | WG1425589 |
| *(S) Toluene-d8* | *97.6* | | *75.0-131* | | *02/11/2020 03:29* | WG1425589 |
| *(S) 4-Bromofluorobenzene* | *102* | | *67.0-138* | | *02/11/2020 03:29* | WG1425589 |
| *(S) 1,2-Dichloroethane-d4* | *101* | | *70.0-130* | | *02/11/2020 03:29* | WG1425589 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| PCB 1016 | ND | | 0.0170 | 1 | 02/14/2020 12:54 | WG1427430 |
| PCB 1221 | ND | | 0.0170 | 1 | 02/14/2020 12:54 | WG1427430 |
| PCB 1232 | ND | | 0.0170 | 1 | 02/14/2020 12:54 | WG1427430 |
| PCB 1242 | ND | | 0.0170 | 1 | 02/14/2020 12:54 | WG1427430 |
| PCB 1248 | ND | | 0.0170 | 1 | 02/14/2020 12:54 | WG1427430 |
| PCB 1254 | ND | | 0.0170 | 1 | 02/14/2020 12:54 | WG1427430 |
| PCB 1260 | ND | | 0.0170 | 1 | 02/14/2020 12:54 | WG1427430 |
| *(S) Decachlorobiphenyl* | *61.5* | | *10.0-135* | | *02/14/2020 12:54* | WG1427430 |
| *(S) Tetrachloro-m-xylene* | *58.3* | | *10.0-139* | | *02/14/2020 12:54* | WG1427430 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Anthracene | ND | | 0.00600 | 1 | 02/13/2020 00:20 | WG1426708 |
| Acenaphthene | ND | | 0.00600 | 1 | 02/13/2020 00:20 | WG1426708 |
| Acenaphthylene | ND | | 0.00600 | 1 | 02/13/2020 00:20 | WG1426708 |
| Benzo(a)anthracene | ND | | 0.00600 | 1 | 02/13/2020 00:20 | WG1426708 |
| Benzo(a)pyrene | ND | | 0.00600 | 1 | 02/13/2020 00:20 | WG1426708 |
| Benzo(b)fluoranthene | ND | | 0.00600 | 1 | 02/13/2020 00:20 | WG1426708 |
| Benzo(g,h,i)perylene | ND | | 0.00600 | 1 | 02/13/2020 00:20 | WG1426708 |
| Benzo(k)fluoranthene | ND | | 0.00600 | 1 | 02/13/2020 00:20 | WG1426708 |
| Chrysene | ND | | 0.00600 | 1 | 02/13/2020 00:20 | WG1426708 |
| Dibenz(a,h)anthracene | ND | | 0.00600 | 1 | 02/13/2020 00:20 | WG1426708 |
| Fluoranthene | ND | | 0.00600 | 1 | 02/13/2020 00:20 | WG1426708 |
| Fluorene | ND | | 0.00600 | 1 | 02/13/2020 00:20 | WG1426708 |
| Indeno(1,2,3-cd)pyrene | ND | | 0.00600 | 1 | 02/13/2020 00:20 | WG1426708 |
| Naphthalene | ND | | 0.0200 | 1 | 02/13/2020 00:20 | WG1426708 |
| Phenanthrene | ND | | 0.00600 | 1 | 02/13/2020 00:20 | WG1426708 |
| Pyrene | ND | | 0.00600 | 1 | 02/13/2020 00:20 | WG1426708 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 00:20 | WG1426708 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 00:20 | WG1426708 |
| 2-Chloronaphthalene | ND | | 0.0200 | 1 | 02/13/2020 00:20 | WG1426708 |
| *(S) p-Terphenyl-d14* | *106* | | *23.0-120* | | *02/13/2020 00:20* | WG1426708 |
| *(S) Nitrobenzene-d5* | *129* | | *14.0-149* | | *02/13/2020 00:20* | WG1426708 |
| *(S) 2-Fluorobiphenyl* | *95.3* | | *34.0-125* | | *02/13/2020 00:20* | WG1426708 |

## Total Solids by Method 2540 G-2011

| Analyte | Result % | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| Total Solids | 80.2 | | 1 | 02/12/2020 21:57 | WG1426304 |

## Mercury by Method 7471A

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0300 | 1 | 02/10/2020 19:19 | WG1424896 |

## Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Arsenic | 5.43 | | 2.00 | 1 | 02/11/2020 11:33 | WG1424912 |
| Barium | 129 | | 0.500 | 1 | 02/11/2020 11:33 | WG1424912 |
| Cadmium | ND | | 0.500 | 1 | 02/11/2020 11:33 | WG1424912 |
| Chromium | 13.0 | | 1.00 | 1 | 02/11/2020 11:33 | WG1424912 |
| Lead | 8.52 | | 0.500 | 1 | 02/11/2020 11:33 | WG1424912 |
| Selenium | ND | | 2.00 | 1 | 02/11/2020 11:33 | WG1424912 |
| Silver | ND | | 1.00 | 1 | 02/11/2020 11:33 | WG1424912 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:35 | WG1425600 |
| 1,1,1-Trichloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:35 | WG1425600 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:35 | WG1425600 |
| 1,1,2-Trichloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:35 | WG1425600 |
| 1,1,2-Trichlorotrifluoroethane | ND | | 0.00250 | 1 | 02/11/2020 02:35 | WG1425600 |
| 1,1-Dichloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:35 | WG1425600 |
| 1,1-Dichloroethene | ND | | 0.00250 | 1 | 02/11/2020 02:35 | WG1425600 |
| 1,1-Dichloropropene | ND | | 0.00250 | 1 | 02/11/2020 02:35 | WG1425600 |
| 1,2,3-Trichlorobenzene | ND | | 0.0125 | 1 | 02/11/2020 02:35 | WG1425600 |
| 1,2,3-Trichloropropane | ND | | 0.0125 | 1 | 02/11/2020 02:35 | WG1425600 |
| 1,2,3-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 02:35 | WG1425600 |
| 1,2,4-Trichlorobenzene | ND | | 0.0125 | 1 | 02/11/2020 02:35 | WG1425600 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 02:35 | WG1425600 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0250 | 1 | 02/11/2020 02:35 | WG1425600 |
| 1,2-Dibromoethane | ND | | 0.00250 | 1 | 02/11/2020 02:35 | WG1425600 |
| 1,2-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 02:35 | WG1425600 |
| 1,2-Dichloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:35 | WG1425600 |
| 1,2-Dichloropropane | ND | | 0.00500 | 1 | 02/11/2020 02:35 | WG1425600 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 02:35 | WG1425600 |
| 1,3-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 02:35 | WG1425600 |
| 1,3-Dichloropropane | ND | | 0.00500 | 1 | 02/11/2020 02:35 | WG1425600 |
| 1,4-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 02:35 | WG1425600 |
| 2,2-Dichloropropane | ND | | 0.00250 | 1 | 02/11/2020 02:35 | WG1425600 |
| 2-Butanone (MEK) | ND | | 0.0250 | 1 | 02/11/2020 02:35 | WG1425600 |
| 2-Chlorotoluene | ND | | 0.00250 | 1 | 02/11/2020 02:35 | WG1425600 |
| 4-Chlorotoluene | ND | | 0.00500 | 1 | 02/11/2020 02:35 | WG1425600 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0250 | 1 | 02/11/2020 02:35 | WG1425600 |
| Acetone | ND | | 0.0250 | 1 | 02/11/2020 02:35 | WG1425600 |
| Acrylonitrile | ND | | 0.0125 | 1 | 02/11/2020 02:35 | WG1425600 |
| Benzene | ND | | 0.00100 | 1 | 02/11/2020 02:35 | WG1425600 |
| Bromobenzene | ND | | 0.0125 | 1 | 02/11/2020 02:35 | WG1425600 |
| Bromodichloromethane | ND | | 0.00250 | 1 | 02/11/2020 02:35 | WG1425600 |
| Bromoform | ND | | 0.0250 | 1 | 02/11/2020 02:35 | WG1425600 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Bromomethane | ND | | 0.0125 | 1 | 02/11/2020 02:35 | WG1425600 |
| Carbon tetrachloride | ND | | 0.00500 | 1 | 02/11/2020 02:35 | WG1425600 |
| Chlorobenzene | ND | | 0.00250 | 1 | 02/11/2020 02:35 | WG1425600 |
| Chlorodibromomethane | ND | | 0.00250 | 1 | 02/11/2020 02:35 | WG1425600 |
| Chloroethane | ND | | 0.00500 | 1 | 02/11/2020 02:35 | WG1425600 |
| Chloroform | ND | | 0.00250 | 1 | 02/11/2020 02:35 | WG1425600 |
| Chloromethane | ND | | 0.0125 | 1 | 02/11/2020 02:35 | WG1425600 |
| Dibromomethane | ND | | 0.00500 | 1 | 02/11/2020 02:35 | WG1425600 |
| Dichlorodifluoromethane | ND | | 0.00250 | 1 | 02/11/2020 02:35 | WG1425600 |
| Di-isopropyl ether | ND | | 0.00100 | 1 | 02/11/2020 02:35 | WG1425600 |
| Ethylbenzene | ND | | 0.00250 | 1 | 02/11/2020 02:35 | WG1425600 |
| Hexachloro-1,3-butadiene | ND | | 0.0250 | 1 | 02/11/2020 02:35 | WG1425600 |
| Isopropylbenzene | ND | | 0.00250 | 1 | 02/11/2020 02:35 | WG1425600 |
| Methyl tert-butyl ether | ND | | 0.00100 | 1 | 02/11/2020 02:35 | WG1425600 |
| Methylene Chloride | ND | | 0.0250 | 1 | 02/11/2020 02:35 | WG1425600 |
| Naphthalene | ND | | 0.0125 | 1 | 02/11/2020 02:35 | WG1425600 |
| Styrene | ND | | 0.0125 | 1 | 02/11/2020 02:35 | WG1425600 |
| Tetrachloroethene | ND | | 0.00250 | 1 | 02/11/2020 02:35 | WG1425600 |
| Toluene | ND | | 0.00500 | 1 | 02/11/2020 02:35 | WG1425600 |
| Trichloroethene | ND | | 0.00100 | 1 | 02/11/2020 02:35 | WG1425600 |
| Trichlorofluoromethane | ND | | 0.00250 | 1 | 02/11/2020 02:35 | WG1425600 |
| Vinyl chloride | ND | | 0.00250 | 1 | 02/11/2020 02:35 | WG1425600 |
| Xylenes, Total | ND | | 0.00650 | 1 | 02/11/2020 02:35 | WG1425600 |
| cis-1,2-Dichloroethene | ND | | 0.00250 | 1 | 02/11/2020 02:35 | WG1425600 |
| trans-1,2-Dichloroethene | ND | | 0.00500 | 1 | 02/11/2020 02:35 | WG1425600 |
| n-Butylbenzene | ND | | 0.0125 | 1 | 02/11/2020 02:35 | WG1425600 |
| n-Propylbenzene | ND | | 0.00500 | 1 | 02/11/2020 02:35 | WG1425600 |
| p-Isopropyltoluene | ND | | 0.00500 | 1 | 02/11/2020 02:35 | WG1425600 |
| sec-Butylbenzene | ND | | 0.0125 | 1 | 02/11/2020 02:35 | WG1425600 |
| tert-Butylbenzene | ND | | 0.00500 | 1 | 02/11/2020 02:35 | WG1425600 |
| cis-1,3-Dichloropropene | ND | | 0.00250 | 1 | 02/11/2020 02:35 | WG1425600 |
| trans-1,3-Dichloropropene | ND | | 0.00500 | 1 | 02/11/2020 02:35 | WG1425600 |
| *(S) Toluene-d8* | *98.9* | | *75.0-131* | | *02/11/2020 02:35* | WG1425600 |
| *(S) 4-Bromofluorobenzene* | *93.5* | | *67.0-138* | | *02/11/2020 02:35* | WG1425600 |
| *(S) 1,2-Dichloroethane-d4* | *106* | | *70.0-130* | | *02/11/2020 02:35* | WG1425600 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| PCB 1016 | ND | | 0.0170 | 1 | 02/14/2020 13:57 | WG1427430 |
| PCB 1221 | ND | | 0.0170 | 1 | 02/14/2020 13:57 | WG1427430 |
| PCB 1232 | ND | | 0.0170 | 1 | 02/14/2020 13:57 | WG1427430 |
| PCB 1242 | ND | | 0.0170 | 1 | 02/14/2020 13:57 | WG1427430 |
| PCB 1248 | ND | | 0.0170 | 1 | 02/14/2020 13:57 | WG1427430 |
| PCB 1254 | ND | | 0.0170 | 1 | 02/14/2020 13:57 | WG1427430 |
| PCB 1260 | ND | | 0.0170 | 1 | 02/14/2020 13:57 | WG1427430 |
| *(S) Decachlorobiphenyl* | *60.7* | | *10.0-135* | | *02/14/2020 13:57* | WG1427430 |
| *(S) Tetrachloro-m-xylene* | *58.4* | | *10.0-139* | | *02/14/2020 13:57* | WG1427430 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Anthracene | 0.0140 | | 0.00600 | 1 | 02/13/2020 03:39 | WG1426708 |
| Acenaphthene | 0.0104 | | 0.00600 | 1 | 02/13/2020 03:39 | WG1426708 |
| Acenaphthylene | ND | | 0.00600 | 1 | 02/13/2020 03:39 | WG1426708 |
| Benzo(a)anthracene | 0.0929 | | 0.00600 | 1 | 02/13/2020 03:39 | WG1426708 |
| Benzo(a)pyrene | 0.0972 | | 0.00600 | 1 | 02/13/2020 03:39 | WG1426708 |
| Benzo(b)fluoranthene | 0.164 | | 0.00600 | 1 | 02/13/2020 03:39 | WG1426708 |
| Benzo(g,h,i)perylene | 0.0699 | | 0.00600 | 1 | 02/13/2020 03:39 | WG1426708 |
| Benzo(k)fluoranthene | 0.0483 | | 0.00600 | 1 | 02/13/2020 03:39 | WG1426708 |
| Chrysene | 0.117 | | 0.00600 | 1 | 02/13/2020 03:39 | WG1426708 |
| Dibenz(a,h)anthracene | 0.0192 | | 0.00600 | 1 | 02/13/2020 03:39 | WG1426708 |
| Fluoranthene | 0.291 | | 0.00600 | 1 | 02/13/2020 03:39 | WG1426708 |
| Fluorene | 0.0116 | | 0.00600 | 1 | 02/13/2020 03:39 | WG1426708 |
| Indeno(1,2,3-cd)pyrene | 0.0671 | | 0.00600 | 1 | 02/13/2020 03:39 | WG1426708 |
| Naphthalene | ND | | 0.0200 | 1 | 02/13/2020 03:39 | WG1426708 |
| Phenanthrene | 0.210 | | 0.00600 | 1 | 02/13/2020 03:39 | WG1426708 |
| Pyrene | 0.278 | | 0.00600 | 1 | 02/13/2020 03:39 | WG1426708 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 03:39 | WG1426708 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 03:39 | WG1426708 |
| 2-Chloronaphthalene | ND | | 0.0200 | 1 | 02/13/2020 03:39 | WG1426708 |
| *(S) p-Terphenyl-d14* | *105* | | *23.0-120* | | *02/13/2020 03:39* | WG1426708 |
| *(S) Nitrobenzene-d5* | *131* | | *14.0-149* | | *02/13/2020 03:39* | WG1426708 |
| *(S) 2-Fluorobiphenyl* | *92.4* | | *34.0-125* | | *02/13/2020 03:39* | WG1426708 |

## Total Solids by Method 2540 G-2011

| Analyte | Result % | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| Total Solids | 77.1 | | 1 | 02/12/2020 21:46 | WG1426305 |

## Mercury by Method 7471A

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0300 | 1 | 02/10/2020 20:20 | WG1424896 |

## Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Arsenic | 6.43 | | 2.00 | 1 | 02/11/2020 11:36 | WG1424912 |
| Barium | 175 | | 0.500 | 1 | 02/11/2020 11:36 | WG1424912 |
| Cadmium | ND | | 0.500 | 1 | 02/11/2020 11:36 | WG1424912 |
| Chromium | 13.3 | | 1.00 | 1 | 02/11/2020 11:36 | WG1424912 |
| Lead | 9.07 | | 0.500 | 1 | 02/11/2020 11:36 | WG1424912 |
| Selenium | ND | | 2.00 | 1 | 02/11/2020 11:36 | WG1424912 |
| Silver | ND | | 1.00 | 1 | 02/11/2020 11:36 | WG1424912 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:55 | WG1425600 |
| 1,1,1-Trichloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:55 | WG1425600 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:55 | WG1425600 |
| 1,1,2-Trichloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:55 | WG1425600 |
| 1,1,2-Trichlorotrifluoroethane | ND | | 0.00250 | 1 | 02/11/2020 02:55 | WG1425600 |
| 1,1-Dichloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:55 | WG1425600 |
| 1,1-Dichloroethene | ND | | 0.00250 | 1 | 02/11/2020 02:55 | WG1425600 |
| 1,1-Dichloropropene | ND | | 0.00250 | 1 | 02/11/2020 02:55 | WG1425600 |
| 1,2,3-Trichlorobenzene | ND | | 0.0125 | 1 | 02/11/2020 02:55 | WG1425600 |
| 1,2,3-Trichloropropane | ND | | 0.0125 | 1 | 02/11/2020 02:55 | WG1425600 |
| 1,2,3-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 02:55 | WG1425600 |
| 1,2,4-Trichlorobenzene | ND | | 0.0125 | 1 | 02/11/2020 02:55 | WG1425600 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 02:55 | WG1425600 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0250 | 1 | 02/11/2020 02:55 | WG1425600 |
| 1,2-Dibromoethane | ND | | 0.00250 | 1 | 02/11/2020 02:55 | WG1425600 |
| 1,2-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 02:55 | WG1425600 |
| 1,2-Dichloroethane | ND | | 0.00250 | 1 | 02/11/2020 02:55 | WG1425600 |
| 1,2-Dichloropropane | ND | | 0.00500 | 1 | 02/11/2020 02:55 | WG1425600 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 02:55 | WG1425600 |
| 1,3-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 02:55 | WG1425600 |
| 1,3-Dichloropropane | ND | | 0.00500 | 1 | 02/11/2020 02:55 | WG1425600 |
| 1,4-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 02:55 | WG1425600 |
| 2,2-Dichloropropane | ND | | 0.00250 | 1 | 02/11/2020 02:55 | WG1425600 |
| 2-Butanone (MEK) | 0.0450 | B | 0.0250 | 1 | 02/11/2020 02:55 | WG1425600 |
| 2-Chlorotoluene | ND | | 0.00250 | 1 | 02/11/2020 02:55 | WG1425600 |
| 4-Chlorotoluene | ND | | 0.00500 | 1 | 02/11/2020 02:55 | WG1425600 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0250 | 1 | 02/11/2020 02:55 | WG1425600 |
| Acetone | ND | | 0.0250 | 1 | 02/11/2020 02:55 | WG1425600 |
| Acrylonitrile | ND | | 0.0125 | 1 | 02/11/2020 02:55 | WG1425600 |
| Benzene | ND | | 0.00100 | 1 | 02/11/2020 02:55 | WG1425600 |
| Bromobenzene | ND | | 0.0125 | 1 | 02/11/2020 02:55 | WG1425600 |
| Bromodichloromethane | ND | | 0.00250 | 1 | 02/11/2020 02:55 | WG1425600 |
| Bromoform | ND | | 0.0250 | 1 | 02/11/2020 02:55 | WG1425600 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Bromomethane | ND | | 0.0125 | 1 | 02/11/2020 02:55 | WG1425600 |
| Carbon tetrachloride | ND | | 0.00500 | 1 | 02/11/2020 02:55 | WG1425600 |
| Chlorobenzene | ND | | 0.00250 | 1 | 02/11/2020 02:55 | WG1425600 |
| Chlorodibromomethane | ND | | 0.00250 | 1 | 02/11/2020 02:55 | WG1425600 |
| Chloroethane | ND | | 0.00500 | 1 | 02/11/2020 02:55 | WG1425600 |
| Chloroform | ND | | 0.00250 | 1 | 02/11/2020 02:55 | WG1425600 |
| Chloromethane | ND | | 0.0125 | 1 | 02/11/2020 02:55 | WG1425600 |
| Dibromomethane | ND | | 0.00500 | 1 | 02/11/2020 02:55 | WG1425600 |
| Dichlorodifluoromethane | ND | | 0.00250 | 1 | 02/11/2020 02:55 | WG1425600 |
| Di-isopropyl ether | ND | | 0.00100 | 1 | 02/11/2020 02:55 | WG1425600 |
| Ethylbenzene | ND | | 0.00250 | 1 | 02/11/2020 02:55 | WG1425600 |
| Hexachloro-1,3-butadiene | ND | | 0.0250 | 1 | 02/11/2020 02:55 | WG1425600 |
| Isopropylbenzene | ND | | 0.00250 | 1 | 02/11/2020 02:55 | WG1425600 |
| Methyl tert-butyl ether | ND | | 0.00100 | 1 | 02/11/2020 02:55 | WG1425600 |
| Methylene Chloride | ND | | 0.0250 | 1 | 02/11/2020 02:55 | WG1425600 |
| Naphthalene | ND | | 0.0125 | 1 | 02/11/2020 02:55 | WG1425600 |
| Styrene | ND | | 0.0125 | 1 | 02/11/2020 02:55 | WG1425600 |
| Tetrachloroethene | ND | | 0.00250 | 1 | 02/11/2020 02:55 | WG1425600 |
| Toluene | ND | | 0.00500 | 1 | 02/11/2020 02:55 | WG1425600 |
| Trichloroethene | ND | | 0.00100 | 1 | 02/11/2020 02:55 | WG1425600 |
| Trichlorofluoromethane | ND | | 0.00250 | 1 | 02/11/2020 02:55 | WG1425600 |
| Vinyl chloride | ND | | 0.00250 | 1 | 02/11/2020 02:55 | WG1425600 |
| Xylenes, Total | ND | | 0.00650 | 1 | 02/11/2020 02:55 | WG1425600 |
| cis-1,2-Dichloroethene | ND | | 0.00250 | 1 | 02/11/2020 02:55 | WG1425600 |
| trans-1,2-Dichloroethene | ND | | 0.00500 | 1 | 02/11/2020 02:55 | WG1425600 |
| n-Butylbenzene | ND | | 0.0125 | 1 | 02/11/2020 02:55 | WG1425600 |
| n-Propylbenzene | ND | | 0.00500 | 1 | 02/11/2020 02:55 | WG1425600 |
| p-Isopropyltoluene | ND | | 0.00500 | 1 | 02/11/2020 02:55 | WG1425600 |
| sec-Butylbenzene | ND | | 0.0125 | 1 | 02/11/2020 02:55 | WG1425600 |
| tert-Butylbenzene | ND | | 0.00500 | 1 | 02/11/2020 02:55 | WG1425600 |
| cis-1,3-Dichloropropene | ND | | 0.00250 | 1 | 02/11/2020 02:55 | WG1425600 |
| trans-1,3-Dichloropropene | ND | | 0.00500 | 1 | 02/11/2020 02:55 | WG1425600 |
| *(S) Toluene-d8* | *98.4* | | *75.0-131* | | *02/11/2020 02:55* | WG1425600 |
| *(S) 4-Bromofluorobenzene* | *93.1* | | *67.0-138* | | *02/11/2020 02:55* | WG1425600 |
| *(S) 1,2-Dichloroethane-d4* | *110* | | *70.0-130* | | *02/11/2020 02:55* | WG1425600 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| PCB 1016 | ND | | 0.0170 | 1 | 02/14/2020 14:12 | WG1427430 |
| PCB 1221 | ND | | 0.0170 | 1 | 02/14/2020 14:12 | WG1427430 |
| PCB 1232 | ND | | 0.0170 | 1 | 02/14/2020 14:12 | WG1427430 |
| PCB 1242 | ND | | 0.0170 | 1 | 02/14/2020 14:12 | WG1427430 |
| PCB 1248 | ND | | 0.0170 | 1 | 02/14/2020 14:12 | WG1427430 |
| PCB 1254 | ND | | 0.0170 | 1 | 02/14/2020 14:12 | WG1427430 |
| PCB 1260 | ND | | 0.0170 | 1 | 02/14/2020 14:12 | WG1427430 |
| *(S) Decachlorobiphenyl* | *62.0* | | *10.0-135* | | *02/14/2020 14:12* | WG1427430 |
| *(S) Tetrachloro-m-xylene* | *54.0* | | *10.0-139* | | *02/14/2020 14:12* | WG1427430 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Anthracene | ND | | 0.00600 | 1 | 02/13/2020 00:42 | WG1426708 |
| Acenaphthene | ND | | 0.00600 | 1 | 02/13/2020 00:42 | WG1426708 |
| Acenaphthylene | ND | | 0.00600 | 1 | 02/13/2020 00:42 | WG1426708 |
| Benzo(a)anthracene | ND | | 0.00600 | 1 | 02/13/2020 00:42 | WG1426708 |
| Benzo(a)pyrene | ND | | 0.00600 | 1 | 02/13/2020 00:42 | WG1426708 |
| Benzo(b)fluoranthene | ND | | 0.00600 | 1 | 02/13/2020 00:42 | WG1426708 |
| Benzo(g,h,i)perylene | ND | | 0.00600 | 1 | 02/13/2020 00:42 | WG1426708 |
| Benzo(k)fluoranthene | ND | | 0.00600 | 1 | 02/13/2020 00:42 | WG1426708 |
| Chrysene | ND | | 0.00600 | 1 | 02/13/2020 00:42 | WG1426708 |
| Dibenz(a,h)anthracene | ND | | 0.00600 | 1 | 02/13/2020 00:42 | WG1426708 |
| Fluoranthene | ND | | 0.00600 | 1 | 02/13/2020 00:42 | WG1426708 |
| Fluorene | ND | | 0.00600 | 1 | 02/13/2020 00:42 | WG1426708 |
| Indeno(1,2,3-cd)pyrene | ND | | 0.00600 | 1 | 02/13/2020 00:42 | WG1426708 |
| Naphthalene | ND | | 0.0200 | 1 | 02/13/2020 00:42 | WG1426708 |
| Phenanthrene | ND | | 0.00600 | 1 | 02/13/2020 00:42 | WG1426708 |
| Pyrene | ND | | 0.00600 | 1 | 02/13/2020 00:42 | WG1426708 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 00:42 | WG1426708 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 00:42 | WG1426708 |
| 2-Chloronaphthalene | ND | | 0.0200 | 1 | 02/13/2020 00:42 | WG1426708 |
| *(S) p-Terphenyl-d14* | *106* | | *23.0-120* | | *02/13/2020 00:42* | WG1426708 |
| *(S) Nitrobenzene-d5* | *128* | | *14.0-149* | | *02/13/2020 00:42* | WG1426708 |
| *(S) 2-Fluorobiphenyl* | *93.9* | | *34.0-125* | | *02/13/2020 00:42* | WG1426708 |

## Total Solids by Method 2540 G-2011

| Analyte | Result % | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| Total Solids | 77.2 | | 1 | 02/12/2020 21:46 | WG1426305 |

## Mercury by Method 7471A

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Mercury | 0.0315 | | 0.0300 | 1 | 02/10/2020 20:22 | WG1424896 |

## Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Arsenic | 4.88 | | 2.00 | 1 | 02/11/2020 11:39 | WG1424912 |
| Barium | 206 | | 0.500 | 1 | 02/11/2020 11:39 | WG1424912 |
| Cadmium | ND | | 0.500 | 1 | 02/11/2020 11:39 | WG1424912 |
| Chromium | 15.3 | | 1.00 | 1 | 02/11/2020 11:39 | WG1424912 |
| Lead | 9.99 | | 0.500 | 1 | 02/11/2020 11:39 | WG1424912 |
| Selenium | ND | | 2.00 | 1 | 02/11/2020 11:39 | WG1424912 |
| Silver | ND | | 1.00 | 1 | 02/11/2020 11:39 | WG1424912 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/11/2020 03:16 | WG1425600 |
| 1,1,1-Trichloroethane | ND | | 0.00250 | 1 | 02/11/2020 03:16 | WG1425600 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/11/2020 03:16 | WG1425600 |
| 1,1,2-Trichloroethane | ND | | 0.00250 | 1 | 02/11/2020 03:16 | WG1425600 |
| 1,1,2-Trichlorotrifluoroethane | ND | | 0.00250 | 1 | 02/11/2020 03:16 | WG1425600 |
| 1,1-Dichloroethane | ND | | 0.00250 | 1 | 02/11/2020 03:16 | WG1425600 |
| 1,1-Dichloroethene | ND | | 0.00250 | 1 | 02/11/2020 03:16 | WG1425600 |
| 1,1-Dichloropropene | ND | | 0.00250 | 1 | 02/11/2020 03:16 | WG1425600 |
| 1,2,3-Trichlorobenzene | ND | | 0.0125 | 1 | 02/11/2020 03:16 | WG1425600 |
| 1,2,3-Trichloropropane | ND | | 0.0125 | 1 | 02/11/2020 03:16 | WG1425600 |
| 1,2,3-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 03:16 | WG1425600 |
| 1,2,4-Trichlorobenzene | ND | | 0.0125 | 1 | 02/11/2020 03:16 | WG1425600 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 03:16 | WG1425600 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0250 | 1 | 02/11/2020 03:16 | WG1425600 |
| 1,2-Dibromoethane | ND | | 0.00250 | 1 | 02/11/2020 03:16 | WG1425600 |
| 1,2-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 03:16 | WG1425600 |
| 1,2-Dichloroethane | ND | | 0.00250 | 1 | 02/11/2020 03:16 | WG1425600 |
| 1,2-Dichloropropane | ND | | 0.00500 | 1 | 02/11/2020 03:16 | WG1425600 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 03:16 | WG1425600 |
| 1,3-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 03:16 | WG1425600 |
| 1,3-Dichloropropane | ND | | 0.00500 | 1 | 02/11/2020 03:16 | WG1425600 |
| 1,4-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 03:16 | WG1425600 |
| 2,2-Dichloropropane | ND | | 0.00250 | 1 | 02/11/2020 03:16 | WG1425600 |
| 2-Butanone (MEK) | 0.0274 | B | 0.0250 | 1 | 02/11/2020 03:16 | WG1425600 |
| 2-Chlorotoluene | ND | | 0.00250 | 1 | 02/11/2020 03:16 | WG1425600 |
| 4-Chlorotoluene | ND | | 0.00500 | 1 | 02/11/2020 03:16 | WG1425600 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0250 | 1 | 02/11/2020 03:16 | WG1425600 |
| Acetone | ND | | 0.0250 | 1 | 02/11/2020 03:16 | WG1425600 |
| Acrylonitrile | ND | | 0.0125 | 1 | 02/11/2020 03:16 | WG1425600 |
| Benzene | ND | | 0.00100 | 1 | 02/11/2020 03:16 | WG1425600 |
| Bromobenzene | ND | | 0.0125 | 1 | 02/11/2020 03:16 | WG1425600 |
| Bromodichloromethane | ND | | 0.00250 | 1 | 02/11/2020 03:16 | WG1425600 |
| Bromoform | ND | | 0.0250 | 1 | 02/11/2020 03:16 | WG1425600 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Bromomethane | ND | | 0.0125 | 1 | 02/11/2020 03:16 | WG1425600 |
| Carbon tetrachloride | ND | | 0.00500 | 1 | 02/11/2020 03:16 | WG1425600 |
| Chlorobenzene | ND | | 0.00250 | 1 | 02/11/2020 03:16 | WG1425600 |
| Chlorodibromomethane | ND | | 0.00250 | 1 | 02/11/2020 03:16 | WG1425600 |
| Chloroethane | ND | | 0.00500 | 1 | 02/11/2020 03:16 | WG1425600 |
| Chloroform | ND | | 0.00250 | 1 | 02/11/2020 03:16 | WG1425600 |
| Chloromethane | ND | | 0.0125 | 1 | 02/11/2020 03:16 | WG1425600 |
| Dibromomethane | ND | | 0.00500 | 1 | 02/11/2020 03:16 | WG1425600 |
| Dichlorodifluoromethane | ND | | 0.00250 | 1 | 02/11/2020 03:16 | WG1425600 |
| Di-isopropyl ether | ND | | 0.00100 | 1 | 02/11/2020 03:16 | WG1425600 |
| Ethylbenzene | ND | | 0.00250 | 1 | 02/11/2020 03:16 | WG1425600 |
| Hexachloro-1,3-butadiene | ND | | 0.0250 | 1 | 02/11/2020 03:16 | WG1425600 |
| Isopropylbenzene | ND | | 0.00250 | 1 | 02/11/2020 03:16 | WG1425600 |
| Methyl tert-butyl ether | ND | | 0.00100 | 1 | 02/11/2020 03:16 | WG1425600 |
| Methylene Chloride | ND | | 0.0250 | 1 | 02/11/2020 03:16 | WG1425600 |
| Naphthalene | ND | | 0.0125 | 1 | 02/11/2020 03:16 | WG1425600 |
| Styrene | ND | | 0.0125 | 1 | 02/11/2020 03:16 | WG1425600 |
| Tetrachloroethene | ND | | 0.00250 | 1 | 02/11/2020 03:16 | WG1425600 |
| Toluene | ND | | 0.00500 | 1 | 02/11/2020 03:16 | WG1425600 |
| Trichloroethene | ND | | 0.00100 | 1 | 02/11/2020 03:16 | WG1425600 |
| Trichlorofluoromethane | ND | | 0.00250 | 1 | 02/11/2020 03:16 | WG1425600 |
| Vinyl chloride | ND | | 0.00250 | 1 | 02/11/2020 03:16 | WG1425600 |
| Xylenes, Total | ND | | 0.00650 | 1 | 02/11/2020 03:16 | WG1425600 |
| cis-1,2-Dichloroethene | ND | | 0.00250 | 1 | 02/11/2020 03:16 | WG1425600 |
| trans-1,2-Dichloroethene | ND | | 0.00500 | 1 | 02/11/2020 03:16 | WG1425600 |
| n-Butylbenzene | ND | | 0.0125 | 1 | 02/11/2020 03:16 | WG1425600 |
| n-Propylbenzene | ND | | 0.00500 | 1 | 02/11/2020 03:16 | WG1425600 |
| p-Isopropyltoluene | ND | | 0.00500 | 1 | 02/11/2020 03:16 | WG1425600 |
| sec-Butylbenzene | ND | | 0.0125 | 1 | 02/11/2020 03:16 | WG1425600 |
| tert-Butylbenzene | ND | | 0.00500 | 1 | 02/11/2020 03:16 | WG1425600 |
| cis-1,3-Dichloropropene | ND | | 0.00250 | 1 | 02/11/2020 03:16 | WG1425600 |
| trans-1,3-Dichloropropene | ND | | 0.00500 | 1 | 02/11/2020 03:16 | WG1425600 |
| *(S) Toluene-d8* | *104* | | *75.0-131* | | *02/11/2020 03:16* | WG1425600 |
| *(S) 4-Bromofluorobenzene* | *93.1* | | *67.0-138* | | *02/11/2020 03:16* | WG1425600 |
| *(S) 1,2-Dichloroethane-d4* | *114* | | *70.0-130* | | *02/11/2020 03:16* | WG1425600 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| PCB 1016 | ND | | 0.0170 | 1 | 02/14/2020 14:28 | WG1427430 |
| PCB 1221 | ND | | 0.0170 | 1 | 02/14/2020 14:28 | WG1427430 |
| PCB 1232 | ND | | 0.0170 | 1 | 02/14/2020 14:28 | WG1427430 |
| PCB 1242 | ND | | 0.0170 | 1 | 02/14/2020 14:28 | WG1427430 |
| PCB 1248 | ND | | 0.0170 | 1 | 02/14/2020 14:28 | WG1427430 |
| PCB 1254 | ND | | 0.0170 | 1 | 02/14/2020 14:28 | WG1427430 |
| PCB 1260 | ND | | 0.0170 | 1 | 02/14/2020 14:28 | WG1427430 |
| *(S) Decachlorobiphenyl* | *76.2* | | *10.0-135* | | *02/14/2020 14:28* | WG1427430 |
| *(S) Tetrachloro-m-xylene* | *64.0* | | *10.0-139* | | *02/14/2020 14:28* | WG1427430 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Anthracene | ND | | 0.00600 | 1 | 02/13/2020 03:17 | WG1426708 |
| Acenaphthene | ND | | 0.00600 | 1 | 02/13/2020 03:17 | WG1426708 |
| Acenaphthylene | ND | | 0.00600 | 1 | 02/13/2020 03:17 | WG1426708 |
| Benzo(a)anthracene | 0.0231 | | 0.00600 | 1 | 02/13/2020 03:17 | WG1426708 |
| Benzo(a)pyrene | 0.0256 | | 0.00600 | 1 | 02/13/2020 03:17 | WG1426708 |
| Benzo(b)fluoranthene | 0.0390 | | 0.00600 | 1 | 02/13/2020 03:17 | WG1426708 |
| Benzo(g,h,i)perylene | 0.0202 | | 0.00600 | 1 | 02/13/2020 03:17 | WG1426708 |
| Benzo(k)fluoranthene | 0.0147 | | 0.00600 | 1 | 02/13/2020 03:17 | WG1426708 |
| Chrysene | 0.0287 | | 0.00600 | 1 | 02/13/2020 03:17 | WG1426708 |
| Dibenz(a,h)anthracene | ND | | 0.00600 | 1 | 02/13/2020 03:17 | WG1426708 |
| Fluoranthene | 0.0831 | | 0.00600 | 1 | 02/13/2020 03:17 | WG1426708 |
| Fluorene | ND | | 0.00600 | 1 | 02/13/2020 03:17 | WG1426708 |
| Indeno(1,2,3-cd)pyrene | 0.0174 | | 0.00600 | 1 | 02/13/2020 03:17 | WG1426708 |
| Naphthalene | ND | | 0.0200 | 1 | 02/13/2020 03:17 | WG1426708 |
| Phenanthrene | 0.0652 | | 0.00600 | 1 | 02/13/2020 03:17 | WG1426708 |
| Pyrene | 0.0772 | | 0.00600 | 1 | 02/13/2020 03:17 | WG1426708 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 03:17 | WG1426708 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 03:17 | WG1426708 |
| 2-Chloronaphthalene | ND | | 0.0200 | 1 | 02/13/2020 03:17 | WG1426708 |
| *(S) p-Terphenyl-d14* | *97.4* | | *23.0-120* | | *02/13/2020 03:17* | WG1426708 |
| *(S) Nitrobenzene-d5* | *118* | | *14.0-149* | | *02/13/2020 03:17* | WG1426708 |
| *(S) 2-Fluorobiphenyl* | *86.4* | | *34.0-125* | | *02/13/2020 03:17* | WG1426708 |

## Mercury by Method 7470A

| Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Mercury | ND | | 0.000200 | 1 | 02/11/2020 09:41 | WG1425569 |

## Metals (ICP) by Method 6010B

| Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Arsenic | 0.0104 | | 0.0100 | 1 | 02/11/2020 19:08 | WG1424603 |
| Barium | 0.273 | | 0.00500 | 1 | 02/11/2020 19:08 | WG1424603 |
| Cadmium | ND | | 0.00200 | 1 | 02/11/2020 19:08 | WG1424603 |
| Chromium | 0.0263 | | 0.0100 | 1 | 02/11/2020 19:08 | WG1424603 |
| Lead | 0.0167 | B | 0.00500 | 1 | 02/11/2020 19:08 | WG1424603 |
| Selenium | ND | | 0.0100 | 1 | 02/11/2020 19:08 | WG1424603 |
| Silver | ND | | 0.00500 | 1 | 02/11/2020 19:08 | WG1424603 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| 1,1,1-Trichloroethane | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| 1,1,2-Trichloroethane | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| 1,1,2-Trichlorotrifluoroethane | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| 1,1-Dichloroethane | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| 1,1-Dichloroethene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| 1,1-Dichloropropene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| 1,2,3-Trichlorobenzene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| 1,2,3-Trichloropropane | ND | | 0.00250 | 1 | 02/11/2020 13:46 | WG1425810 |
| 1,2,3-Trimethylbenzene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| 1,2,4-Trichlorobenzene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.00500 | 1 | 02/11/2020 13:46 | WG1425810 |
| 1,2-Dibromoethane | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| 1,2-Dichlorobenzene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| 1,2-Dichloroethane | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| 1,2-Dichloropropane | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| 1,3-Dichlorobenzene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| 1,3-Dichloropropane | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| 1,4-Dichlorobenzene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| 2,2-Dichloropropane | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| 2-Butanone (MEK) | ND | | 0.0100 | 1 | 02/11/2020 13:46 | WG1425810 |
| 2-Chlorotoluene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| 4-Chlorotoluene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0100 | 1 | 02/11/2020 13:46 | WG1425810 |
| Acetone | ND | | 0.0500 | 1 | 02/11/2020 13:46 | WG1425810 |
| Acrolein | ND | | 0.0500 | 1 | 02/11/2020 13:46 | WG1425810 |
| Acrylonitrile | ND | | 0.0100 | 1 | 02/11/2020 13:46 | WG1425810 |
| Benzene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| Bromobenzene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| Bromodichloromethane | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| Bromoform | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| Bromomethane | ND | | 0.00500 | 1 | 02/11/2020 13:46 | WG1425810 |
| Carbon tetrachloride | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| Chlorobenzene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| Chlorodibromomethane | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| Chloroethane | ND | | 0.00500 | 1 | 02/11/2020 13:46 | WG1425810 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Chloroform | ND | | 0.00500 | 1 | 02/11/2020 13:46 | WG1425810 |
| Chloromethane | ND | | 0.00250 | 1 | 02/11/2020 13:46 | WG1425810 |
| Dibromomethane | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| Dichlorodifluoromethane | ND | | 0.00500 | 1 | 02/11/2020 13:46 | WG1425810 |
| Di-isopropyl ether | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| Ethylbenzene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| Hexachloro-1,3-butadiene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| Isopropylbenzene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| Methyl tert-butyl ether | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| Methylene Chloride | ND | | 0.00500 | 1 | 02/11/2020 13:46 | WG1425810 |
| Naphthalene | ND | | 0.00500 | 1 | 02/11/2020 13:46 | WG1425810 |
| Styrene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| Tetrachloroethene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| Toluene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| Trichloroethene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| Trichlorofluoromethane | ND | | 0.00500 | 1 | 02/11/2020 13:46 | WG1425810 |
| Vinyl chloride | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| Xylenes, Total | ND | | 0.00300 | 1 | 02/11/2020 13:46 | WG1425810 |
| cis-1,2-Dichloroethene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| cis-1,3-Dichloropropene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| n-Butylbenzene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| n-Propylbenzene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| p-Isopropyltoluene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| sec-Butylbenzene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| tert-Butylbenzene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| trans-1,2-Dichloroethene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| trans-1,3-Dichloropropene | ND | | 0.00100 | 1 | 02/11/2020 13:46 | WG1425810 |
| *(S) Toluene-d8* | *101* | | *80.0-120* | | *02/11/2020 13:46* | WG1425810 |
| *(S) 4-Bromofluorobenzene* | *105* | | *77.0-126* | | *02/11/2020 13:46* | WG1425810 |
| *(S) 1,2-Dichloroethane-d4* | *102* | | *70.0-130* | | *02/11/2020 13:46* | WG1425810 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Anthracene | ND | | 0.0000500 | 1 | 02/12/2020 23:42 | WG1426323 |
| Acenaphthene | 0.0000525 | | 0.0000500 | 1 | 02/12/2020 23:42 | WG1426323 |
| Acenaphthylene | ND | | 0.0000500 | 1 | 02/12/2020 23:42 | WG1426323 |
| Benzo(a)anthracene | 0.0000592 | | 0.0000500 | 1 | 02/12/2020 23:42 | WG1426323 |
| Benzo(a)pyrene | 0.0000793 | | 0.0000500 | 1 | 02/12/2020 23:42 | WG1426323 |
| Benzo(b)fluoranthene | 0.000132 | | 0.0000500 | 1 | 02/12/2020 23:42 | WG1426323 |
| Benzo(g,h,i)perylene | 0.000101 | | 0.0000500 | 1 | 02/12/2020 23:42 | WG1426323 |
| Benzo(k)fluoranthene | ND | | 0.0000500 | 1 | 02/12/2020 23:42 | WG1426323 |
| Chrysene | 0.0000869 | | 0.0000500 | 1 | 02/12/2020 23:42 | WG1426323 |
| Dibenz(a,h)anthracene | ND | | 0.0000500 | 1 | 02/12/2020 23:42 | WG1426323 |
| Fluoranthene | 0.000281 | | 0.0000500 | 1 | 02/12/2020 23:42 | WG1426323 |
| Fluorene | ND | | 0.0000500 | 1 | 02/12/2020 23:42 | WG1426323 |
| Indeno(1,2,3-cd)pyrene | 0.0000788 | | 0.0000500 | 1 | 02/12/2020 23:42 | WG1426323 |
| Naphthalene | ND | | 0.000250 | 1 | 02/12/2020 23:42 | WG1426323 |
| Phenanthrene | 0.000324 | | 0.0000500 | 1 | 02/12/2020 23:42 | WG1426323 |
| Pyrene | 0.000192 | | 0.0000500 | 1 | 02/12/2020 23:42 | WG1426323 |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 02/12/2020 23:42 | WG1426323 |
| 2-Methylnaphthalene | ND | | 0.000250 | 1 | 02/12/2020 23:42 | WG1426323 |
| 2-Chloronaphthalene | ND | | 0.000250 | 1 | 02/12/2020 23:42 | WG1426323 |
| *(S) Nitrobenzene-d5* | *87.9* | | *31.0-160* | | *02/12/2020 23:42* | WG1426323 |
| *(S) 2-Fluorobiphenyl* | *92.6* | | *48.0-148* | | *02/12/2020 23:42* | WG1426323 |
| *(S) p-Terphenyl-d14* | *97.4* | | *37.0-146* | | *02/12/2020 23:42* | WG1426323 |

## Mercury by Method 7470A

| Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Mercury | ND | | 0.000200 | 1 | 02/11/2020 09:43 | WG1425569 |

## Metals (ICP) by Method 6010B

| Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Arsenic | 0.0129 | | 0.0100 | 1 | 02/11/2020 19:11 | WG1424603 |
| Barium | 0.388 | | 0.00500 | 1 | 02/11/2020 19:11 | WG1424603 |
| Cadmium | ND | | 0.00200 | 1 | 02/11/2020 19:11 | WG1424603 |
| Chromium | 0.0351 | | 0.0100 | 1 | 02/11/2020 19:11 | WG1424603 |
| Lead | 0.0184 | B | 0.00500 | 1 | 02/11/2020 19:11 | WG1424603 |
| Selenium | ND | | 0.0100 | 1 | 02/11/2020 19:11 | WG1424603 |
| Silver | ND | | 0.00500 | 1 | 02/11/2020 19:11 | WG1424603 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| 1,1,1-Trichloroethane | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| 1,1,2-Trichloroethane | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| 1,1,2-Trichlorotrifluoroethane | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| 1,1-Dichloroethane | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| 1,1-Dichloroethene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| 1,1-Dichloropropene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| 1,2,3-Trichlorobenzene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| 1,2,3-Trichloropropane | ND | | 0.00250 | 1 | 02/11/2020 14:07 | WG1425810 |
| 1,2,3-Trimethylbenzene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| 1,2,4-Trichlorobenzene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.00500 | 1 | 02/11/2020 14:07 | WG1425810 |
| 1,2-Dibromoethane | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| 1,2-Dichlorobenzene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| 1,2-Dichloroethane | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| 1,2-Dichloropropane | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| 1,3-Dichlorobenzene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| 1,3-Dichloropropane | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| 1,4-Dichlorobenzene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| 2,2-Dichloropropane | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| 2-Butanone (MEK) | ND | | 0.0100 | 1 | 02/11/2020 14:07 | WG1425810 |
| 2-Chlorotoluene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| 4-Chlorotoluene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0100 | 1 | 02/11/2020 14:07 | WG1425810 |
| Acetone | ND | | 0.0500 | 1 | 02/11/2020 14:07 | WG1425810 |
| Acrolein | ND | | 0.0500 | 1 | 02/11/2020 14:07 | WG1425810 |
| Acrylonitrile | ND | | 0.0100 | 1 | 02/11/2020 14:07 | WG1425810 |
| Benzene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| Bromobenzene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| Bromodichloromethane | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| Bromoform | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| Bromomethane | ND | | 0.00500 | 1 | 02/11/2020 14:07 | WG1425810 |
| Carbon tetrachloride | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| Chlorobenzene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| Chlorodibromomethane | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| Chloroethane | ND | | 0.00500 | 1 | 02/11/2020 14:07 | WG1425810 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Chloroform | ND | | 0.00500 | 1 | 02/11/2020 14:07 | WG1425810 |
| Chloromethane | ND | | 0.00250 | 1 | 02/11/2020 14:07 | WG1425810 |
| Dibromomethane | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| Dichlorodifluoromethane | ND | | 0.00500 | 1 | 02/11/2020 14:07 | WG1425810 |
| Di-isopropyl ether | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| Ethylbenzene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| Hexachloro-1,3-butadiene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| Isopropylbenzene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| Methyl tert-butyl ether | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| Methylene Chloride | ND | | 0.00500 | 1 | 02/11/2020 14:07 | WG1425810 |
| Naphthalene | ND | | 0.00500 | 1 | 02/11/2020 14:07 | WG1425810 |
| Styrene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| Tetrachloroethene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| Toluene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| Trichloroethene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| Trichlorofluoromethane | ND | | 0.00500 | 1 | 02/11/2020 14:07 | WG1425810 |
| Vinyl chloride | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| Xylenes, Total | ND | | 0.00300 | 1 | 02/11/2020 14:07 | WG1425810 |
| cis-1,2-Dichloroethene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| cis-1,3-Dichloropropene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| n-Butylbenzene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| n-Propylbenzene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| p-Isopropyltoluene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| sec-Butylbenzene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| tert-Butylbenzene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| trans-1,2-Dichloroethene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| trans-1,3-Dichloropropene | ND | | 0.00100 | 1 | 02/11/2020 14:07 | WG1425810 |
| *(S) Toluene-d8* | *102* | | *80.0-120* | | *02/11/2020 14:07* | WG1425810 |
| *(S) 4-Bromofluorobenzene* | *105* | | *77.0-126* | | *02/11/2020 14:07* | WG1425810 |
| *(S) 1,2-Dichloroethane-d4* | *100* | | *70.0-130* | | *02/11/2020 14:07* | WG1425810 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Anthracene | 0.0000501 | | 0.0000500 | 1 | 02/13/2020 00:04 | WG1426323 |
| Acenaphthene | 0.000106 | | 0.0000500 | 1 | 02/13/2020 00:04 | WG1426323 |
| Acenaphthylene | ND | | 0.0000500 | 1 | 02/13/2020 00:04 | WG1426323 |
| Benzo(a)anthracene | ND | | 0.0000500 | 1 | 02/13/2020 00:04 | WG1426323 |
| Benzo(a)pyrene | ND | | 0.0000500 | 1 | 02/13/2020 00:04 | WG1426323 |
| Benzo(b)fluoranthene | ND | | 0.0000500 | 1 | 02/13/2020 00:04 | WG1426323 |
| Benzo(g,h,i)perylene | ND | | 0.0000500 | 1 | 02/13/2020 00:04 | WG1426323 |
| Benzo(k)fluoranthene | ND | | 0.0000500 | 1 | 02/13/2020 00:04 | WG1426323 |
| Chrysene | ND | | 0.0000500 | 1 | 02/13/2020 00:04 | WG1426323 |
| Dibenz(a,h)anthracene | ND | | 0.0000500 | 1 | 02/13/2020 00:04 | WG1426323 |
| Fluoranthene | 0.0000825 | | 0.0000500 | 1 | 02/13/2020 00:04 | WG1426323 |
| Fluorene | 0.0000798 | | 0.0000500 | 1 | 02/13/2020 00:04 | WG1426323 |
| Indeno(1,2,3-cd)pyrene | ND | | 0.0000500 | 1 | 02/13/2020 00:04 | WG1426323 |
| Naphthalene | ND | | 0.000250 | 1 | 02/13/2020 00:04 | WG1426323 |
| Phenanthrene | 0.000293 | | 0.0000500 | 1 | 02/13/2020 00:04 | WG1426323 |
| Pyrene | 0.0000529 | | 0.0000500 | 1 | 02/13/2020 00:04 | WG1426323 |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 02/13/2020 00:04 | WG1426323 |
| 2-Methylnaphthalene | ND | | 0.000250 | 1 | 02/13/2020 00:04 | WG1426323 |
| 2-Chloronaphthalene | ND | | 0.000250 | 1 | 02/13/2020 00:04 | WG1426323 |
| *(S) Nitrobenzene-d5* | *86.3* | | *31.0-160* | | *02/13/2020 00:04* | WG1426323 |
| *(S) 2-Fluorobiphenyl* | *93.2* | | *48.0-148* | | *02/13/2020 00:04* | WG1426323 |
| *(S) p-Terphenyl-d14* | *99.5* | | *37.0-146* | | *02/13/2020 00:04* | WG1426323 |

## Mercury by Method 7470A

| Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Mercury | ND | | 0.000200 | 1 | 02/12/2020 09:11 | WG1425980 |

## Metals (ICP) by Method 6010B

| Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Arsenic | 0.957 | | 0.0500 | 5 | 02/12/2020 00:08 | WG1424155 |
| Barium | 19.9 | | 0.0250 | 5 | 02/12/2020 00:08 | WG1424155 |
| Cadmium | 0.0298 | | 0.0100 | 5 | 02/12/2020 00:08 | WG1424155 |
| Chromium | 2.15 | | 0.0500 | 5 | 02/12/2020 00:08 | WG1424155 |
| Lead | 1.37 | | 0.0250 | 5 | 02/12/2020 00:08 | WG1424155 |
| Selenium | ND | | 0.0500 | 5 | 02/12/2020 00:08 | WG1424155 |
| Silver | ND | | 0.0250 | 5 | 02/12/2020 00:08 | WG1424155 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| 1,1,1-Trichloroethane | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| 1,1,2-Trichloroethane | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| 1,1,2-Trichlorotrifluoroethane | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| 1,1-Dichloroethane | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| 1,1-Dichloroethene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| 1,1-Dichloropropene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| 1,2,3-Trichlorobenzene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| 1,2,3-Trichloropropane | ND | | 0.00250 | 1 | 02/11/2020 14:27 | WG1425810 |
| 1,2,3-Trimethylbenzene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| 1,2,4-Trichlorobenzene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.00500 | 1 | 02/11/2020 14:27 | WG1425810 |
| 1,2-Dibromoethane | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| 1,2-Dichlorobenzene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| 1,2-Dichloroethane | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| 1,2-Dichloropropane | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| 1,3-Dichlorobenzene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| 1,3-Dichloropropane | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| 1,4-Dichlorobenzene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| 2,2-Dichloropropane | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| 2-Butanone (MEK) | ND | | 0.0100 | 1 | 02/11/2020 14:27 | WG1425810 |
| 2-Chlorotoluene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| 4-Chlorotoluene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0100 | 1 | 02/11/2020 14:27 | WG1425810 |
| Acetone | ND | | 0.0500 | 1 | 02/11/2020 14:27 | WG1425810 |
| Acrolein | ND | | 0.0500 | 1 | 02/11/2020 14:27 | WG1425810 |
| Acrylonitrile | ND | | 0.0100 | 1 | 02/11/2020 14:27 | WG1425810 |
| Benzene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| Bromobenzene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| Bromodichloromethane | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| Bromoform | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| Bromomethane | ND | | 0.00500 | 1 | 02/11/2020 14:27 | WG1425810 |
| Carbon tetrachloride | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| Chlorobenzene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| Chlorodibromomethane | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| Chloroethane | ND | | 0.00500 | 1 | 02/11/2020 14:27 | WG1425810 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Chloroform | ND | | 0.00500 | 1 | 02/11/2020 14:27 | WG1425810 |
| Chloromethane | ND | | 0.00250 | 1 | 02/11/2020 14:27 | WG1425810 |
| Dibromomethane | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| Dichlorodifluoromethane | ND | | 0.00500 | 1 | 02/11/2020 14:27 | WG1425810 |
| Di-isopropyl ether | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| Ethylbenzene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| Hexachloro-1,3-butadiene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| Isopropylbenzene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| Methyl tert-butyl ether | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| Methylene Chloride | ND | | 0.00500 | 1 | 02/11/2020 14:27 | WG1425810 |
| Naphthalene | ND | | 0.00500 | 1 | 02/11/2020 14:27 | WG1425810 |
| Styrene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| Tetrachloroethene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| Toluene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| Trichloroethene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| Trichlorofluoromethane | ND | | 0.00500 | 1 | 02/11/2020 14:27 | WG1425810 |
| Vinyl chloride | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| Xylenes, Total | ND | | 0.00300 | 1 | 02/11/2020 14:27 | WG1425810 |
| cis-1,2-Dichloroethene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| cis-1,3-Dichloropropene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| n-Butylbenzene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| n-Propylbenzene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| p-Isopropyltoluene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| sec-Butylbenzene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| tert-Butylbenzene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| trans-1,2-Dichloroethene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| trans-1,3-Dichloropropene | ND | | 0.00100 | 1 | 02/11/2020 14:27 | WG1425810 |
| *(S) Toluene-d8* | *103* | | *80.0-120* | | *02/11/2020 14:27* | WG1425810 |
| *(S) 4-Bromofluorobenzene* | *107* | | *77.0-126* | | *02/11/2020 14:27* | WG1425810 |
| *(S) 1,2-Dichloroethane-d4* | *98.9* | | *70.0-130* | | *02/11/2020 14:27* | WG1425810 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Anthracene | ND | | 0.0000625 | 1.25 | 02/13/2020 00:27 | WG1426323 |
| Acenaphthene | 0.000232 | | 0.0000625 | 1.25 | 02/13/2020 00:27 | WG1426323 |
| Acenaphthylene | ND | | 0.0000625 | 1.25 | 02/13/2020 00:27 | WG1426323 |
| Benzo(a)anthracene | 0.000137 | | 0.0000625 | 1.25 | 02/13/2020 00:27 | WG1426323 |
| Benzo(a)pyrene | 0.000171 | | 0.0000625 | 1.25 | 02/13/2020 00:27 | WG1426323 |
| Benzo(b)fluoranthene | 0.000285 | | 0.0000625 | 1.25 | 02/13/2020 00:27 | WG1426323 |
| Benzo(g,h,i)perylene | 0.000171 | | 0.0000625 | 1.25 | 02/13/2020 00:27 | WG1426323 |
| Benzo(k)fluoranthene | 0.000122 | | 0.0000625 | 1.25 | 02/13/2020 00:27 | WG1426323 |
| Chrysene | 0.000211 | | 0.0000625 | 1.25 | 02/13/2020 00:27 | WG1426323 |
| Dibenz(a,h)anthracene | ND | | 0.0000625 | 1.25 | 02/13/2020 00:27 | WG1426323 |
| Fluoranthene | 0.000770 | | 0.0000625 | 1.25 | 02/13/2020 00:27 | WG1426323 |
| Fluorene | 0.000148 | | 0.0000625 | 1.25 | 02/13/2020 00:27 | WG1426323 |
| Indeno(1,2,3-cd)pyrene | 0.000142 | | 0.0000625 | 1.25 | 02/13/2020 00:27 | WG1426323 |
| Naphthalene | 0.000477 | | 0.000313 | 1.25 | 02/13/2020 00:27 | WG1426323 |
| Phenanthrene | 0.00114 | | 0.0000625 | 1.25 | 02/13/2020 00:27 | WG1426323 |
| Pyrene | 0.000548 | | 0.0000625 | 1.25 | 02/13/2020 00:27 | WG1426323 |
| 1-Methylnaphthalene | 0.000474 | | 0.000313 | 1.25 | 02/13/2020 00:27 | WG1426323 |
| 2-Methylnaphthalene | 0.000438 | | 0.000313 | 1.25 | 02/13/2020 00:27 | WG1426323 |
| 2-Chloronaphthalene | ND | | 0.000313 | 1.25 | 02/13/2020 00:27 | WG1426323 |
| *(S) Nitrobenzene-d5* | *87.6* | | *31.0-160* | | *02/13/2020 00:27* | WG1426323 |
| *(S) 2-Fluorobiphenyl* | *86.8* | | *48.0-148* | | *02/13/2020 00:27* | WG1426323 |
| *(S) p-Terphenyl-d14* | *95.2* | | *37.0-146* | | *02/13/2020 00:27* | WG1426323 |

## Mercury by Method 7470A

| Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Mercury | ND | J6 | 0.000200 | 1 | 02/11/2020 09:11 | WG1425569 |

## Metals (ICP) by Method 6010B

| Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Arsenic | 0.0398 | | 0.0100 | 1 | 02/11/2020 19:14 | WG1424603 |
| Barium | 1.85 | | 0.00500 | 1 | 02/11/2020 19:14 | WG1424603 |
| Cadmium | 0.00224 | | 0.00200 | 1 | 02/11/2020 19:14 | WG1424603 |
| Chromium | 0.208 | | 0.0100 | 1 | 02/11/2020 19:14 | WG1424603 |
| Lead | 0.104 | | 0.00500 | 1 | 02/11/2020 19:14 | WG1424603 |
| Selenium | ND | | 0.0100 | 1 | 02/11/2020 19:14 | WG1424603 |
| Silver | ND | | 0.00500 | 1 | 02/11/2020 19:14 | WG1424603 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| 1,1,1-Trichloroethane | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| 1,1,2-Trichloroethane | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| 1,1,2-Trichlorotrifluoroethane | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| 1,1-Dichloroethane | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| 1,1-Dichloroethene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| 1,1-Dichloropropene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| 1,2,3-Trichlorobenzene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| 1,2,3-Trichloropropane | ND | | 0.00250 | 1 | 02/11/2020 11:45 | WG1425810 |
| 1,2,3-Trimethylbenzene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| 1,2,4-Trichlorobenzene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| 1,2,4-Trimethylbenzene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.00500 | 1 | 02/11/2020 11:45 | WG1425810 |
| 1,2-Dibromoethane | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| 1,2-Dichlorobenzene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| 1,2-Dichloroethane | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| 1,2-Dichloropropane | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| 1,3,5-Trimethylbenzene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| 1,3-Dichlorobenzene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| 1,3-Dichloropropane | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| 1,4-Dichlorobenzene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| 2,2-Dichloropropane | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| 2-Butanone (MEK) | ND | | 0.0100 | 1 | 02/11/2020 11:45 | WG1425810 |
| 2-Chlorotoluene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| 4-Chlorotoluene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0100 | 1 | 02/11/2020 11:45 | WG1425810 |
| Acetone | ND | | 0.0500 | 1 | 02/11/2020 11:45 | WG1425810 |
| Acrolein | ND | | 0.0500 | 1 | 02/11/2020 11:45 | WG1425810 |
| Acrylonitrile | ND | | 0.0100 | 1 | 02/11/2020 11:45 | WG1425810 |
| Benzene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| Bromobenzene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| Bromodichloromethane | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| Bromoform | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| Bromomethane | ND | | 0.00500 | 1 | 02/11/2020 11:45 | WG1425810 |
| Carbon tetrachloride | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| Chlorobenzene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| Chlorodibromomethane | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| Chloroethane | ND | | 0.00500 | 1 | 02/11/2020 11:45 | WG1425810 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Chloroform | ND | | 0.00500 | 1 | 02/11/2020 11:45 | WG1425810 |
| Chloromethane | ND | | 0.00250 | 1 | 02/11/2020 11:45 | WG1425810 |
| Dibromomethane | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| Dichlorodifluoromethane | ND | | 0.00500 | 1 | 02/11/2020 11:45 | WG1425810 |
| Di-isopropyl ether | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| Ethylbenzene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| Hexachloro-1,3-butadiene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| Isopropylbenzene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| Methyl tert-butyl ether | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| Methylene Chloride | ND | | 0.00500 | 1 | 02/11/2020 11:45 | WG1425810 |
| Naphthalene | ND | | 0.00500 | 1 | 02/11/2020 11:45 | WG1425810 |
| Styrene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| Tetrachloroethene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| Toluene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| Trichloroethene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| Trichlorofluoromethane | ND | | 0.00500 | 1 | 02/11/2020 11:45 | WG1425810 |
| Vinyl chloride | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| Xylenes, Total | ND | | 0.00300 | 1 | 02/11/2020 11:45 | WG1425810 |
| cis-1,2-Dichloroethene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| cis-1,3-Dichloropropene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| n-Butylbenzene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| n-Propylbenzene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| p-Isopropyltoluene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| sec-Butylbenzene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| tert-Butylbenzene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| trans-1,2-Dichloroethene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| trans-1,3-Dichloropropene | ND | | 0.00100 | 1 | 02/11/2020 11:45 | WG1425810 |
| *(S) Toluene-d8* | *102* | | *80.0-120* | | *02/11/2020 11:45* | WG1425810 |
| *(S) 4-Bromofluorobenzene* | *105* | | *77.0-126* | | *02/11/2020 11:45* | WG1425810 |
| *(S) 1,2-Dichloroethane-d4* | *102* | | *70.0-130* | | *02/11/2020 11:45* | WG1425810 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Anthracene | ND | | 0.0000500 | 1 | 02/13/2020 00:49 | WG1426323 |
| Acenaphthene | ND | | 0.0000500 | 1 | 02/13/2020 00:49 | WG1426323 |
| Acenaphthylene | ND | | 0.0000500 | 1 | 02/13/2020 00:49 | WG1426323 |
| Benzo(a)anthracene | ND | | 0.0000500 | 1 | 02/13/2020 00:49 | WG1426323 |
| Benzo(a)pyrene | ND | | 0.0000500 | 1 | 02/13/2020 00:49 | WG1426323 |
| Benzo(b)fluoranthene | ND | | 0.0000500 | 1 | 02/13/2020 00:49 | WG1426323 |
| Benzo(g,h,i)perylene | ND | | 0.0000500 | 1 | 02/13/2020 00:49 | WG1426323 |
| Benzo(k)fluoranthene | ND | | 0.0000500 | 1 | 02/13/2020 00:49 | WG1426323 |
| Chrysene | ND | | 0.0000500 | 1 | 02/13/2020 00:49 | WG1426323 |
| Dibenz(a,h)anthracene | ND | | 0.0000500 | 1 | 02/13/2020 00:49 | WG1426323 |
| Fluoranthene | 0.0000669 | | 0.0000500 | 1 | 02/13/2020 00:49 | WG1426323 |
| Fluorene | ND | | 0.0000500 | 1 | 02/13/2020 00:49 | WG1426323 |
| Indeno(1,2,3-cd)pyrene | ND | | 0.0000500 | 1 | 02/13/2020 00:49 | WG1426323 |
| Naphthalene | ND | | 0.000250 | 1 | 02/13/2020 00:49 | WG1426323 |
| Phenanthrene | 0.000195 | | 0.0000500 | 1 | 02/13/2020 00:49 | WG1426323 |
| Pyrene | ND | | 0.0000500 | 1 | 02/13/2020 00:49 | WG1426323 |
| 1-Methylnaphthalene | ND | | 0.000250 | 1 | 02/13/2020 00:49 | WG1426323 |
| 2-Methylnaphthalene | ND | | 0.000250 | 1 | 02/13/2020 00:49 | WG1426323 |
| 2-Chloronaphthalene | ND | | 0.000250 | 1 | 02/13/2020 00:49 | WG1426323 |
| *(S) Nitrobenzene-d5* | *87.0* | | *31.0-160* | | *02/13/2020 00:49* | WG1426323 |
| *(S) 2-Fluorobiphenyl* | *94.0* | | *48.0-148* | | *02/13/2020 00:49* | WG1426323 |
| *(S) p-Terphenyl-d14* | *104* | | *37.0-146* | | *02/13/2020 00:49* | WG1426323 |

## Total Solids by Method 2540 G-2011

| Analyte | Result % | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| Total Solids | 78.9 | | 1 | 02/12/2020 21:46 | WG1426305 |

## Mercury by Method 7471A

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Mercury | ND | | 0.0300 | 1 | 02/11/2020 21:02 | WG1425892 |

## Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Arsenic | 2.18 | | 2.00 | 1 | 02/11/2020 16:20 | WG1425657 |
| Barium | 49.9 | | 0.500 | 1 | 02/11/2020 16:20 | WG1425657 |
| Cadmium | ND | | 0.500 | 1 | 02/11/2020 16:20 | WG1425657 |
| Chromium | 12.6 | | 1.00 | 1 | 02/11/2020 16:20 | WG1425657 |
| Lead | 5.80 | | 0.500 | 1 | 02/11/2020 16:20 | WG1425657 |
| Selenium | ND | | 2.00 | 1 | 02/11/2020 16:20 | WG1425657 |
| Silver | ND | | 1.00 | 1 | 02/11/2020 16:20 | WG1425657 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/11/2020 03:36 | WG1425600 |
| 1,1,1-Trichloroethane | ND | | 0.00250 | 1 | 02/11/2020 03:36 | WG1425600 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.00250 | 1 | 02/11/2020 03:36 | WG1425600 |
| 1,1,2-Trichloroethane | ND | | 0.00250 | 1 | 02/11/2020 03:36 | WG1425600 |
| 1,1,2-Trichlorotrifluoroethane | ND | | 0.00250 | 1 | 02/11/2020 03:36 | WG1425600 |
| 1,1-Dichloroethane | ND | | 0.00250 | 1 | 02/11/2020 03:36 | WG1425600 |
| 1,1-Dichloroethene | ND | | 0.00250 | 1 | 02/11/2020 03:36 | WG1425600 |
| 1,1-Dichloropropene | ND | | 0.00250 | 1 | 02/11/2020 03:36 | WG1425600 |
| 1,2,3-Trichlorobenzene | ND | | 0.0125 | 1 | 02/11/2020 03:36 | WG1425600 |
| 1,2,3-Trichloropropane | ND | | 0.0125 | 1 | 02/11/2020 03:36 | WG1425600 |
| 1,2,3-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 03:36 | WG1425600 |
| 1,2,4-Trichlorobenzene | ND | | 0.0125 | 1 | 02/11/2020 03:36 | WG1425600 |
| 1,2,4-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 03:36 | WG1425600 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0250 | 1 | 02/11/2020 03:36 | WG1425600 |
| 1,2-Dibromoethane | ND | | 0.00250 | 1 | 02/11/2020 03:36 | WG1425600 |
| 1,2-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 03:36 | WG1425600 |
| 1,2-Dichloroethane | ND | | 0.00250 | 1 | 02/11/2020 03:36 | WG1425600 |
| 1,2-Dichloropropane | ND | | 0.00500 | 1 | 02/11/2020 03:36 | WG1425600 |
| 1,3,5-Trimethylbenzene | ND | | 0.00500 | 1 | 02/11/2020 03:36 | WG1425600 |
| 1,3-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 03:36 | WG1425600 |
| 1,3-Dichloropropane | ND | | 0.00500 | 1 | 02/11/2020 03:36 | WG1425600 |
| 1,4-Dichlorobenzene | ND | | 0.00500 | 1 | 02/11/2020 03:36 | WG1425600 |
| 2,2-Dichloropropane | ND | | 0.00250 | 1 | 02/11/2020 03:36 | WG1425600 |
| 2-Butanone (MEK) | 0.0289 | B | 0.0250 | 1 | 02/11/2020 03:36 | WG1425600 |
| 2-Chlorotoluene | ND | | 0.00250 | 1 | 02/11/2020 03:36 | WG1425600 |
| 4-Chlorotoluene | ND | | 0.00500 | 1 | 02/11/2020 03:36 | WG1425600 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0250 | 1 | 02/11/2020 03:36 | WG1425600 |
| Acetone | ND | | 0.0250 | 1 | 02/11/2020 03:36 | WG1425600 |
| Acrylonitrile | ND | | 0.0125 | 1 | 02/11/2020 03:36 | WG1425600 |
| Benzene | ND | | 0.00100 | 1 | 02/11/2020 03:36 | WG1425600 |
| Bromobenzene | ND | | 0.0125 | 1 | 02/11/2020 03:36 | WG1425600 |
| Bromodichloromethane | ND | | 0.00250 | 1 | 02/11/2020 03:36 | WG1425600 |
| Bromoform | ND | | 0.0250 | 1 | 02/11/2020 03:36 | WG1425600 |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Bromomethane | ND | | 0.0125 | 1 | 02/11/2020 03:36 | WG1425600 |
| Carbon tetrachloride | ND | | 0.00500 | 1 | 02/11/2020 03:36 | WG1425600 |
| Chlorobenzene | ND | | 0.00250 | 1 | 02/11/2020 03:36 | WG1425600 |
| Chlorodibromomethane | ND | | 0.00250 | 1 | 02/11/2020 03:36 | WG1425600 |
| Chloroethane | ND | | 0.00500 | 1 | 02/11/2020 03:36 | WG1425600 |
| Chloroform | ND | | 0.00250 | 1 | 02/11/2020 03:36 | WG1425600 |
| Chloromethane | ND | | 0.0125 | 1 | 02/11/2020 03:36 | WG1425600 |
| Dibromomethane | ND | | 0.00500 | 1 | 02/11/2020 03:36 | WG1425600 |
| Dichlorodifluoromethane | ND | | 0.00250 | 1 | 02/11/2020 03:36 | WG1425600 |
| Di-isopropyl ether | ND | | 0.00100 | 1 | 02/11/2020 03:36 | WG1425600 |
| Ethylbenzene | ND | | 0.00250 | 1 | 02/11/2020 03:36 | WG1425600 |
| Hexachloro-1,3-butadiene | ND | | 0.0250 | 1 | 02/11/2020 03:36 | WG1425600 |
| Isopropylbenzene | ND | | 0.00250 | 1 | 02/11/2020 03:36 | WG1425600 |
| Methyl tert-butyl ether | ND | | 0.00100 | 1 | 02/11/2020 03:36 | WG1425600 |
| Methylene Chloride | ND | | 0.0250 | 1 | 02/11/2020 03:36 | WG1425600 |
| Naphthalene | ND | | 0.0125 | 1 | 02/11/2020 03:36 | WG1425600 |
| Styrene | ND | | 0.0125 | 1 | 02/11/2020 03:36 | WG1425600 |
| Tetrachloroethene | ND | | 0.00250 | 1 | 02/11/2020 03:36 | WG1425600 |
| Toluene | ND | | 0.00500 | 1 | 02/11/2020 03:36 | WG1425600 |
| Trichloroethene | ND | | 0.00100 | 1 | 02/11/2020 03:36 | WG1425600 |
| Trichlorofluoromethane | ND | | 0.00250 | 1 | 02/11/2020 03:36 | WG1425600 |
| Vinyl chloride | ND | | 0.00250 | 1 | 02/11/2020 03:36 | WG1425600 |
| Xylenes, Total | ND | | 0.00650 | 1 | 02/11/2020 03:36 | WG1425600 |
| cis-1,2-Dichloroethene | ND | | 0.00250 | 1 | 02/11/2020 03:36 | WG1425600 |
| trans-1,2-Dichloroethene | ND | | 0.00500 | 1 | 02/11/2020 03:36 | WG1425600 |
| n-Butylbenzene | ND | | 0.0125 | 1 | 02/11/2020 03:36 | WG1425600 |
| n-Propylbenzene | ND | | 0.00500 | 1 | 02/11/2020 03:36 | WG1425600 |
| p-Isopropyltoluene | ND | | 0.00500 | 1 | 02/11/2020 03:36 | WG1425600 |
| sec-Butylbenzene | ND | | 0.0125 | 1 | 02/11/2020 03:36 | WG1425600 |
| tert-Butylbenzene | ND | | 0.00500 | 1 | 02/11/2020 03:36 | WG1425600 |
| cis-1,3-Dichloropropene | ND | | 0.00250 | 1 | 02/11/2020 03:36 | WG1425600 |
| trans-1,3-Dichloropropene | ND | | 0.00500 | 1 | 02/11/2020 03:36 | WG1425600 |
| *(S) Toluene-d8* | *101* | | *75.0-131* | | *02/11/2020 03:36* | WG1425600 |
| *(S) 4-Bromofluorobenzene* | *91.2* | | *67.0-138* | | *02/11/2020 03:36* | WG1425600 |
| *(S) 1,2-Dichloroethane-d4* | *117* | | *70.0-130* | | *02/11/2020 03:36* | WG1425600 |

## Polychlorinated Biphenyls (GC) by Method 8082

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| PCB 1016 | ND | | 0.0170 | 1 | 02/14/2020 15:14 | WG1427430 |
| PCB 1221 | ND | | 0.0170 | 1 | 02/14/2020 15:14 | WG1427430 |
| PCB 1232 | ND | | 0.0170 | 1 | 02/14/2020 15:14 | WG1427430 |
| PCB 1242 | ND | | 0.0170 | 1 | 02/14/2020 15:14 | WG1427430 |
| PCB 1248 | ND | | 0.0170 | 1 | 02/14/2020 15:14 | WG1427430 |
| PCB 1254 | ND | | 0.0170 | 1 | 02/14/2020 15:14 | WG1427430 |
| PCB 1260 | ND | | 0.0170 | 1 | 02/14/2020 15:14 | WG1427430 |
| *(S) Decachlorobiphenyl* | *73.0* | | *10.0-135* | | *02/14/2020 15:14* | WG1427430 |
| *(S) Tetrachloro-m-xylene* | *62.7* | | *10.0-139* | | *02/14/2020 15:14* | WG1427430 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Anthracene | ND | | 0.00600 | 1 | 02/13/2020 18:54 | WG1426711 |
| Acenaphthene | ND | | 0.00600 | 1 | 02/13/2020 18:54 | WG1426711 |
| Acenaphthylene | ND | | 0.00600 | 1 | 02/13/2020 18:54 | WG1426711 |
| Benzo(a)anthracene | ND | | 0.00600 | 1 | 02/13/2020 18:54 | WG1426711 |
| Benzo(a)pyrene | ND | | 0.00600 | 1 | 02/13/2020 18:54 | WG1426711 |
| Benzo(b)fluoranthene | ND | | 0.00600 | 1 | 02/13/2020 18:54 | WG1426711 |
| Benzo(g,h,i)perylene | ND | | 0.00600 | 1 | 02/13/2020 18:54 | WG1426711 |
| Benzo(k)fluoranthene | ND | | 0.00600 | 1 | 02/13/2020 18:54 | WG1426711 |
| Chrysene | ND | | 0.00600 | 1 | 02/13/2020 18:54 | WG1426711 |
| Dibenz(a,h)anthracene | ND | | 0.00600 | 1 | 02/13/2020 18:54 | WG1426711 |
| Fluoranthene | ND | | 0.00600 | 1 | 02/13/2020 18:54 | WG1426711 |
| Fluorene | ND | | 0.00600 | 1 | 02/13/2020 18:54 | WG1426711 |
| Indeno(1,2,3-cd)pyrene | ND | | 0.00600 | 1 | 02/13/2020 18:54 | WG1426711 |
| Naphthalene | ND | | 0.0200 | 1 | 02/13/2020 18:54 | WG1426711 |
| Phenanthrene | ND | | 0.00600 | 1 | 02/13/2020 18:54 | WG1426711 |
| Pyrene | ND | | 0.00600 | 1 | 02/13/2020 18:54 | WG1426711 |
| 1-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 18:54 | WG1426711 |
| 2-Methylnaphthalene | ND | | 0.0200 | 1 | 02/13/2020 18:54 | WG1426711 |
| 2-Chloronaphthalene | ND | | 0.0200 | 1 | 02/13/2020 18:54 | WG1426711 |
| *(S) p-Terphenyl-d14* | *65.3* | | *23.0-120* | | *02/13/2020 18:54* | WG1426711 |
| *(S) Nitrobenzene-d5* | *50.8* | | *14.0-149* | | *02/13/2020 18:54* | WG1426711 |
| *(S) 2-Fluorobiphenyl* | *61.7* | | *34.0-125* | | *02/13/2020 18:54* | WG1426711 |

## Method Blank (MB)

(MB) R3499462-1 02/12/20 21:57

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00300 | | | |

## L1187565-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1187565-01 02/12/20 21:57 • (DUP) R3499462-3 02/12/20 21:57

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 75.8 | 75.4 | 1 | 0.569 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R3499462-2 02/12/20 21:57

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3499451-1 02/12/20 21:46

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00200 | | | |

## L1187624-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1187624-03 02/12/20 21:46 • (DUP) R3499451-3 02/12/20 21:46

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 79.1 | 80.1 | 1 | 1.23 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R3499451-2 02/12/20 21:46

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Method Blank (MB)

(MB) R3498688-1 02/11/20 09:08

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Mercury | U | | 0.0000490 | 0.000200 |

## Laboratory Control Sample (LCS)

(LCS) R3498688-2 02/11/20 09:10

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.00300 | 0.00303 | 101 | 80.0-120 | |

## L1187565-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1187565-13 02/11/20 09:11 • (MS) R3498688-3 02/11/20 09:14 • (MSD) R3498688-4 02/11/20 09:15

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00300 | ND | 0.00249 | 0.00224 | 80.6 | 72.1 | 1 | 75.0-125 | | J6 | 10.7 | 20 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Method Blank (MB)

(MB) R3499112-1 02/12/20 09:01

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Mercury | U | | 0.0000490 | 0.000200 |

## Laboratory Control Sample (LCS)

(LCS) R3499112-2 02/12/20 09:03

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.00300 | 0.00299 | 99.8 | 80.0-120 | |

## L1187881-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1187881-01 02/12/20 09:05 • (MS) R3499112-3 02/12/20 09:07 • (MSD) R3499112-4 02/12/20 09:09

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00300 | ND | 0.00233 | 0.00228 | 77.8 | 76.0 | 1 | 75.0-125 | | | 2.38 | 20 |

## Method Blank (MB)

(MB) R3499729-1 02/13/20 21:07

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Mercury | U | | 0.00330 | 0.0100 |

## Laboratory Control Sample (LCS)

(LCS) R3499729-2 02/13/20 21:09

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.0300 | 0.0284 | 94.7 | 80.0-120 | |

## L1187429-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1187429-18 02/13/20 21:15 • (MS) R3499729-3 02/13/20 21:17 • (MSD) R3499729-4 02/13/20 21:19

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.0300 | ND | 0.0296 | 0.0308 | 98.8 | 103 | 1 | 75.0-125 | | | 3.84 | 20 |

## Method Blank (MB)

(MB) R3498590-1 02/10/20 19:14

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.00280 | 0.0300 |

## Laboratory Control Sample (LCS)

(LCS) R3498590-2 02/10/20 19:16

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.510 | 102 | 80.0-120 | |

## L1187565-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1187565-07 02/10/20 19:19 • (MS) R3498590-3 02/10/20 19:21 • (MSD) R3498590-4 02/10/20 19:24

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.500 | ND | 0.594 | 0.629 | 116 | 123 | 1 | 75.0-125 | | | 5.75 | 20 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Method Blank (MB)

(MB) R3498936-1 02/11/20 20:08

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.00280 | 0.0300 |

## Laboratory Control Sample (LCS)

(LCS) R3498936-2 02/11/20 20:11

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.542 | 108 | 80.0-120 | |

## L1187789-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1187789-01 02/11/20 20:13 • (MS) R3498936-3 02/11/20 20:16 • (MSD) R3498936-4 02/11/20 20:18

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.585 | ND | 0.711 | 0.694 | 120 | 117 | 1 | 75.0-125 | | | 2.43 | 20 |

## Method Blank (MB)

(MB) R3498972-1 02/11/20 17:23

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Arsenic | U | | 0.00650 | 0.0100 |
| Barium | U | | 0.00170 | 0.00500 |
| Cadmium | U | | 0.000700 | 0.00200 |
| Chromium | U | | 0.00140 | 0.0100 |
| Lead | U | | 0.00190 | 0.00500 |
| Selenium | U | | 0.00740 | 0.0100 |
| Silver | U | | 0.00280 | 0.00500 |

## Laboratory Control Sample (LCS)

(LCS) R3498972-2 02/11/20 17:26

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Arsenic | 1.00 | 0.945 | 94.5 | 80.0-120 | |
| Barium | 1.00 | 1.01 | 101 | 80.0-120 | |
| Cadmium | 1.00 | 0.959 | 95.9 | 80.0-120 | |
| Chromium | 1.00 | 0.966 | 96.6 | 80.0-120 | |
| Lead | 1.00 | 0.966 | 96.6 | 80.0-120 | |
| Selenium | 1.00 | 0.952 | 95.2 | 80.0-120 | |
| Silver | 0.200 | 0.172 | 86.1 | 80.0-120 | |

## L1187355-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1187355-02 02/11/20 17:29 • (MS) R3498972-4 02/11/20 17:34 • (MSD) R3498972-5 02/11/20 17:36

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 1.00 | U | 0.967 | 0.961 | 96.7 | 96.1 | 1 | 75.0-125 | | | 0.611 | 20 |
| Barium | 1.00 | 0.0320 | 1.05 | 1.04 | 102 | 101 | 1 | 75.0-125 | | | 0.496 | 20 |
| Cadmium | 1.00 | U | 0.980 | 0.975 | 98.0 | 97.5 | 1 | 75.0-125 | | | 0.500 | 20 |
| Chromium | 1.00 | U | 0.975 | 0.968 | 97.5 | 96.8 | 1 | 75.0-125 | | | 0.694 | 20 |
| Lead | 1.00 | 0.00462 | 0.973 | 0.964 | 96.8 | 95.9 | 1 | 75.0-125 | | | 0.958 | 20 |
| Selenium | 1.00 | U | 0.976 | 0.960 | 97.6 | 96.0 | 1 | 75.0-125 | | | 1.61 | 20 |
| Silver | 0.200 | U | 0.176 | 0.174 | 87.8 | 87.2 | 1 | 75.0-125 | | | 0.691 | 20 |

## Method Blank (MB)

(MB) R3498968-1 02/11/20 18:02

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Arsenic | U | | 0.00650 | 0.0100 |
| Barium | U | | 0.00170 | 0.00500 |
| Cadmium | U | | 0.000700 | 0.00200 |
| Chromium | U | | 0.00140 | 0.0100 |
| Lead | 0.00205 | J | 0.00190 | 0.00500 |
| Selenium | U | | 0.00740 | 0.0100 |
| Silver | U | | 0.00280 | 0.00500 |

## Laboratory Control Sample (LCS)

(LCS) R3498968-2 02/11/20 18:05

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Arsenic | 1.00 | 0.947 | 94.7 | 80.0-120 | |
| Barium | 1.00 | 0.967 | 96.7 | 80.0-120 | |
| Cadmium | 1.00 | 0.961 | 96.1 | 80.0-120 | |
| Chromium | 1.00 | 0.948 | 94.8 | 80.0-120 | |
| Lead | 1.00 | 0.969 | 96.9 | 80.0-120 | |
| Selenium | 1.00 | 0.938 | 93.8 | 80.0-120 | |
| Silver | 0.200 | 0.177 | 88.7 | 80.0-120 | |

## L1187429-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1187429-16 02/11/20 18:07 • (MS) R3498968-4 02/11/20 18:13 • (MSD) R3498968-5 02/11/20 18:15

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 1.00 | 0.0113 | 0.984 | 0.976 | 97.3 | 96.5 | 1 | 75.0-125 | | | 0.827 | 20 |
| Barium | 1.00 | 0.0956 | 1.05 | 1.04 | 95.2 | 94.2 | 1 | 75.0-125 | | | 0.942 | 20 |
| Cadmium | 1.00 | ND | 0.975 | 0.962 | 97.4 | 96.1 | 1 | 75.0-125 | | | 1.30 | 20 |
| Chromium | 1.00 | ND | 0.940 | 0.932 | 93.8 | 92.9 | 1 | 75.0-125 | | | 0.905 | 20 |
| Lead | 1.00 | ND | 0.984 | 0.973 | 98.2 | 97.1 | 1 | 75.0-125 | | | 1.12 | 20 |
| Selenium | 1.00 | ND | 0.965 | 0.955 | 96.5 | 95.5 | 1 | 75.0-125 | | | 1.03 | 20 |
| Silver | 0.200 | ND | 0.182 | 0.179 | 90.8 | 89.4 | 1 | 75.0-125 | | | 1.57 | 20 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Method Blank (MB)

(MB) R3498740-1 02/11/20 10:22

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Arsenic | 0.477 | J | 0.460 | 2.00 |
| Barium | U | | 0.170 | 0.500 |
| Cadmium | U | | 0.0700 | 0.500 |
| Chromium | 0.158 | J | 0.140 | 1.00 |
| Lead | U | | 0.190 | 0.500 |
| Selenium | U | | 0.620 | 2.00 |
| Silver | U | | 0.120 | 1.00 |

## Laboratory Control Sample (LCS)

(LCS) R3498740-2 02/11/20 10:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Arsenic | 100 | 94.3 | 94.3 | 80.0-120 | |
| Barium | 100 | 102 | 102 | 80.0-120 | |
| Cadmium | 100 | 96.6 | 96.6 | 80.0-120 | |
| Chromium | 100 | 98.8 | 98.8 | 80.0-120 | |
| Lead | 100 | 99.7 | 99.7 | 80.0-120 | |
| Selenium | 100 | 94.9 | 94.9 | 80.0-120 | |
| Silver | 20.0 | 19.0 | 95.1 | 80.0-120 | |

## L1187565-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1187565-01 02/11/20 10:27 • (MS) R3498740-5 02/11/20 10:35 • (MSD) R3498740-6 02/11/20 10:37

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 100 | 7.85 | 105 | 112 | 97.6 | 104 | 1 | 75.0-125 | | | 5.91 | 20 |
| Barium | 100 | 189 | 301 | 309 | 112 | 120 | 1 | 75.0-125 | | | 2.56 | 20 |
| Cadmium | 100 | ND | 101 | 107 | 100 | 107 | 1 | 75.0-125 | | | 6.38 | 20 |
| Chromium | 100 | 14.0 | 116 | 123 | 102 | 109 | 1 | 75.0-125 | | | 5.38 | 20 |
| Lead | 100 | 9.34 | 116 | 123 | 107 | 113 | 1 | 75.0-125 | | | 5.60 | 20 |
| Selenium | 100 | ND | 97.7 | 104 | 97.7 | 104 | 1 | 75.0-125 | | | 6.15 | 20 |
| Silver | 20.0 | ND | 19.9 | 21.2 | 98.6 | 105 | 1 | 75.0-125 | | | 6.23 | 20 |

## Method Blank (MB)

(MB) R3498966-1 02/11/20 15:31

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Arsenic | U | | 0.460 | 2.00 |
| Barium | U | | 0.170 | 0.500 |
| Cadmium | U | | 0.0700 | 0.500 |
| Chromium | U | | 0.140 | 1.00 |
| Lead | U | | 0.190 | 0.500 |
| Selenium | U | | 0.620 | 2.00 |
| Silver | U | | 0.120 | 1.00 |

## Laboratory Control Sample (LCS)

(LCS) R3498966-2 02/11/20 15:33

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Arsenic | 100 | 94.8 | 94.8 | 80.0-120 | |
| Barium | 100 | 97.9 | 97.9 | 80.0-120 | |
| Cadmium | 100 | 95.9 | 95.9 | 80.0-120 | |
| Chromium | 100 | 94.1 | 94.1 | 80.0-120 | |
| Lead | 100 | 96.8 | 96.8 | 80.0-120 | |
| Selenium | 100 | 94.3 | 94.3 | 80.0-120 | |
| Silver | 20.0 | 17.6 | 88.2 | 80.0-120 | |

## L1187532-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1187532-04 02/11/20 15:36 • (MS) R3498966-5 02/11/20 15:44 • (MSD) R3498966-6 02/11/20 15:47

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 100 | 4.98 | 89.9 | 90.5 | 84.9 | 85.5 | 1 | 75.0-125 | | | 0.630 | 20 |
| Barium | 100 | 67.2 | 150 | 151 | 82.7 | 84.2 | 1 | 75.0-125 | | | 0.985 | 20 |
| Cadmium | 100 | ND | 86.4 | 87.2 | 86.2 | 87.0 | 1 | 75.0-125 | | | 0.916 | 20 |
| Chromium | 100 | 7.17 | 89.4 | 90.8 | 82.3 | 83.6 | 1 | 75.0-125 | | | 1.48 | 20 |
| Lead | 100 | 6.51 | 94.6 | 95.1 | 88.1 | 88.6 | 1 | 75.0-125 | | | 0.538 | 20 |
| Selenium | 100 | ND | 85.4 | 86.1 | 85.4 | 86.1 | 1 | 75.0-125 | | | 0.826 | 20 |
| Silver | 20.0 | ND | 15.5 | 15.6 | 77.3 | 78.0 | 1 | 75.0-125 | | | 0.939 | 20 |

## Method Blank (MB)

(MB) R3499754-1 02/13/20 23:14

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Arsenic | U | | 0.0333 | 0.100 |
| Barium | U | | 0.0333 | 0.100 |
| Cadmium | U | | 0.0333 | 0.100 |
| Chromium | U | | 0.0333 | 0.100 |
| Lead | U | | 0.0333 | 0.100 |
| Selenium | U | | 0.0333 | 0.100 |
| Silver | U | | 0.0333 | 0.100 |

## Laboratory Control Sample (LCS)

(LCS) R3499754-2 02/13/20 23:16

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Arsenic | 10.0 | 9.41 | 94.1 | 80.0-120 | |
| Barium | 10.0 | 9.67 | 96.7 | 80.0-120 | |
| Cadmium | 10.0 | 9.66 | 96.6 | 80.0-120 | |
| Chromium | 10.0 | 9.51 | 95.1 | 80.0-120 | |
| Lead | 10.0 | 9.93 | 99.3 | 80.0-120 | |
| Selenium | 10.0 | 10.0 | 100 | 80.0-120 | |
| Silver | 2.00 | 1.78 | 88.9 | 80.0-120 | |

## L1187429-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1187429-18 02/13/20 23:19 • (MS) R3499754-4 02/13/20 23:24 • (MSD) R3499754-5 02/13/20 23:27

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 10.0 | ND | 9.44 | 9.24 | 93.7 | 91.7 | 1 | 75.0-125 | | | 2.10 | 20 |
| Barium | 10.0 | ND | 9.93 | 9.76 | 98.6 | 97.0 | 1 | 75.0-125 | | | 1.71 | 20 |
| Cadmium | 10.0 | ND | 9.64 | 9.45 | 96.4 | 94.5 | 1 | 75.0-125 | | | 2.02 | 20 |
| Chromium | 10.0 | ND | 9.72 | 9.51 | 97.2 | 95.1 | 1 | 75.0-125 | | | 2.18 | 20 |
| Lead | 10.0 | ND | 9.87 | 9.69 | 98.7 | 96.9 | 1 | 75.0-125 | | | 1.89 | 20 |
| Selenium | 10.0 | ND | 9.94 | 9.71 | 99.4 | 97.1 | 1 | 75.0-125 | | | 2.35 | 20 |
| Silver | 2.00 | ND | 1.80 | 1.75 | 90.2 | 87.6 | 1 | 75.0-125 | | | 2.90 | 20 |

## L1187509-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1187509-01 02/13/20 23:30 • (MS) R3499754-6 02/13/20 23:32 • (MSD) R3499754-7 02/13/20 23:35

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 10.0 | ND | 9.75 | 9.81 | 96.8 | 97.4 | 1 | 75.0-125 | | | 0.643 | 20 |
| Barium | 10.0 | 0.613 | 10.4 | 10.3 | 97.5 | 96.8 | 1 | 75.0-125 | | | 0.687 | 20 |
| Cadmium | 10.0 | ND | 9.79 | 9.83 | 97.9 | 98.3 | 1 | 75.0-125 | | | 0.349 | 20 |
| Chromium | 10.0 | ND | 9.58 | 9.63 | 95.3 | 95.8 | 1 | 75.0-125 | | | 0.522 | 20 |
| Lead | 10.0 | ND | 10.0 | 10.0 | 100 | 100 | 1 | 75.0-125 | | | 0.353 | 20 |
| Selenium | 10.0 | ND | 10.3 | 10.3 | 103 | 102 | 1 | 75.0-125 | | | 0.106 | 20 |
| Silver | 2.00 | ND | 1.80 | 1.80 | 89.8 | 90.2 | 1 | 75.0-125 | | | 0.432 | 20 |

## Method Blank (MB)

(MB) R3499278-2 02/10/20 20:51

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0137 | 0.0250 |
| Acrylonitrile | U | | 0.00190 | 0.0125 |
| Benzene | U | | 0.000400 | 0.00100 |
| Bromobenzene | U | | 0.00105 | 0.0125 |
| Bromodichloromethane | U | | 0.000788 | 0.00250 |
| Bromoform | U | | 0.00598 | 0.0250 |
| Bromomethane | U | | 0.00370 | 0.0125 |
| n-Butylbenzene | U | | 0.00384 | 0.0125 |
| sec-Butylbenzene | U | | 0.00253 | 0.0125 |
| tert-Butylbenzene | U | | 0.00155 | 0.00500 |
| Carbon tetrachloride | U | | 0.00108 | 0.00500 |
| Chlorobenzene | U | | 0.000573 | 0.00250 |
| Chlorodibromomethane | U | | 0.000450 | 0.00250 |
| Chloroethane | U | | 0.00108 | 0.00500 |
| Chloroform | 0.000700 | J | 0.000415 | 0.00250 |
| Chloromethane | U | | 0.00139 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000920 | 0.00250 |
| 4-Chlorotoluene | U | | 0.00113 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00510 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000525 | 0.00250 |
| Dibromomethane | U | | 0.00100 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.00145 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.00170 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.00197 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.000818 | 0.00250 |
| 1,1-Dichloroethane | U | | 0.000575 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000475 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000500 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000690 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00143 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00127 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000700 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.00175 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000678 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00153 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.000793 | 0.00250 |
| Di-isopropyl ether | U | | 0.000350 | 0.00100 |
| Ethylbenzene | U | | 0.000530 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.0127 | 0.0250 |
| Isopropylbenzene | U | | 0.000863 | 0.00250 |

## Method Blank (MB)

(MB) R3499278-2 02/10/20 20:51

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00233 | 0.00500 |
| 2-Butanone (MEK) | 0.0141 | J | 0.0125 | 0.0250 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0100 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000295 | 0.00100 |
| Naphthalene | U | | 0.00312 | 0.0125 |
| n-Propylbenzene | U | | 0.00118 | 0.00500 |
| Styrene | U | | 0.00273 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000500 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000390 | 0.00250 |
| Tetrachloroethene | U | | 0.000700 | 0.00250 |
| Toluene | U | | 0.00125 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000675 | 0.00250 |
| 1,2,3-Trichlorobenzene | U | | 0.000625 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00482 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000275 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000883 | 0.00250 |
| Trichloroethene | U | | 0.000400 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000500 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00510 | 0.0125 |
| 1,2,3-Trimethylbenzene | U | | 0.00115 | 0.00500 |
| 1,2,4-Trimethylbenzene | U | | 0.00116 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00108 | 0.00500 |
| Vinyl chloride | U | | 0.000683 | 0.00250 |
| Xylenes, Total | U | | 0.00478 | 0.00650 |
| *(S) Toluene-d8* | *99.3* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *103* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *100* | | | *70.0-130* |

## Laboratory Control Sample (LCS)

(LCS) R3499278-1 02/10/20 19:55

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acetone | 0.625 | 0.375 | 60.0 | 10.0-160 | |
| Acrylonitrile | 0.625 | 0.532 | 85.1 | 45.0-153 | |
| Benzene | 0.125 | 0.128 | 102 | 70.0-123 | |
| Bromobenzene | 0.125 | 0.126 | 101 | 73.0-121 | |
| Bromodichloromethane | 0.125 | 0.107 | 85.6 | 73.0-121 | |

## Laboratory Control Sample (LCS)

(LCS) R3499278-1 02/10/20 19:55

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.117 | 93.6 | 64.0-132 | |
| Bromomethane | 0.125 | 0.165 | 132 | 56.0-147 | |
| n-Butylbenzene | 0.125 | 0.115 | 92.0 | 68.0-135 | |
| sec-Butylbenzene | 0.125 | 0.110 | 88.0 | 74.0-130 | |
| tert-Butylbenzene | 0.125 | 0.121 | 96.8 | 75.0-127 | |
| Carbon tetrachloride | 0.125 | 0.166 | 133 | 66.0-128 | J4 |
| Chlorobenzene | 0.125 | 0.129 | 103 | 76.0-128 | |
| Chlorodibromomethane | 0.125 | 0.118 | 94.4 | 74.0-127 | |
| Chloroethane | 0.125 | 0.127 | 102 | 61.0-134 | |
| Chloroform | 0.125 | 0.111 | 88.8 | 72.0-123 | |
| Chloromethane | 0.125 | 0.125 | 100 | 51.0-138 | |
| 2-Chlorotoluene | 0.125 | 0.104 | 83.2 | 75.0-124 | |
| 4-Chlorotoluene | 0.125 | 0.112 | 89.6 | 75.0-124 | |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.100 | 80.0 | 59.0-130 | |
| 1,2-Dibromoethane | 0.125 | 0.113 | 90.4 | 74.0-128 | |
| Dibromomethane | 0.125 | 0.112 | 89.6 | 75.0-122 | |
| 1,2-Dichlorobenzene | 0.125 | 0.122 | 97.6 | 76.0-124 | |
| 1,3-Dichlorobenzene | 0.125 | 0.115 | 92.0 | 76.0-125 | |
| 1,4-Dichlorobenzene | 0.125 | 0.112 | 89.6 | 77.0-121 | |
| Dichlorodifluoromethane | 0.125 | 0.128 | 102 | 43.0-156 | |
| 1,1-Dichloroethane | 0.125 | 0.125 | 100 | 70.0-127 | |
| 1,2-Dichloroethane | 0.125 | 0.104 | 83.2 | 65.0-131 | |
| 1,1-Dichloroethene | 0.125 | 0.135 | 108 | 65.0-131 | |
| cis-1,2-Dichloroethene | 0.125 | 0.133 | 106 | 73.0-125 | |
| trans-1,2-Dichloroethene | 0.125 | 0.127 | 102 | 71.0-125 | |
| 1,2-Dichloropropane | 0.125 | 0.103 | 82.4 | 74.0-125 | |
| 1,1-Dichloropropene | 0.125 | 0.133 | 106 | 73.0-125 | |
| 1,3-Dichloropropane | 0.125 | 0.118 | 94.4 | 80.0-125 | |
| cis-1,3-Dichloropropene | 0.125 | 0.115 | 92.0 | 76.0-127 | |
| trans-1,3-Dichloropropene | 0.125 | 0.109 | 87.2 | 73.0-127 | |
| 2,2-Dichloropropane | 0.125 | 0.131 | 105 | 59.0-135 | |
| Di-isopropyl ether | 0.125 | 0.0959 | 76.7 | 60.0-136 | |
| Ethylbenzene | 0.125 | 0.119 | 95.2 | 74.0-126 | |
| Hexachloro-1,3-butadiene | 0.125 | 0.129 | 103 | 57.0-150 | |
| Isopropylbenzene | 0.125 | 0.128 | 102 | 72.0-127 | |
| p-Isopropyltoluene | 0.125 | 0.121 | 96.8 | 72.0-133 | |
| 2-Butanone (MEK) | 0.625 | 0.435 | 69.6 | 30.0-160 | |
| Methylene Chloride | 0.125 | 0.113 | 90.4 | 68.0-123 | |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.478 | 76.5 | 56.0-143 | |
| Methyl tert-butyl ether | 0.125 | 0.132 | 106 | 66.0-132 | |

## Laboratory Control Sample (LCS)

(LCS) R3499278-1 02/10/20 19:55

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.113 | 90.4 | 59.0-130 | |
| n-Propylbenzene | 0.125 | 0.110 | 88.0 | 74.0-126 | |
| Styrene | 0.125 | 0.124 | 99.2 | 72.0-127 | |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.112 | 89.6 | 74.0-129 | |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.102 | 81.6 | 68.0-128 | |
| Tetrachloroethene | 0.125 | 0.143 | 114 | 70.0-136 | |
| Toluene | 0.125 | 0.111 | 88.8 | 75.0-121 | |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.137 | 110 | 61.0-139 | |
| 1,2,3-Trichlorobenzene | 0.125 | 0.131 | 105 | 59.0-139 | |
| 1,2,4-Trichlorobenzene | 0.125 | 0.120 | 96.0 | 62.0-137 | |
| 1,1,1-Trichloroethane | 0.125 | 0.134 | 107 | 69.0-126 | |
| 1,1,2-Trichloroethane | 0.125 | 0.118 | 94.4 | 78.0-123 | |
| Trichloroethene | 0.125 | 0.115 | 92.0 | 76.0-126 | |
| Trichlorofluoromethane | 0.125 | 0.185 | 148 | 61.0-142 | J4 |
| 1,2,3-Trichloropropane | 0.125 | 0.104 | 83.2 | 67.0-129 | |
| 1,2,3-Trimethylbenzene | 0.125 | 0.104 | 83.2 | 74.0-124 | |
| 1,2,4-Trimethylbenzene | 0.125 | 0.114 | 91.2 | 70.0-126 | |
| 1,3,5-Trimethylbenzene | 0.125 | 0.110 | 88.0 | 73.0-127 | |
| Vinyl chloride | 0.125 | 0.149 | 119 | 63.0-134 | |
| Xylenes, Total | 0.375 | 0.360 | 96.0 | 72.0-127 | |
| *(S) Toluene-d8* | | | *100* | *75.0-131* | |
| *(S) 4-Bromofluorobenzene* | | | *103* | *67.0-138* | |
| *(S) 1,2-Dichloroethane-d4* | | | *104* | *70.0-130* | |

## Method Blank (MB)

(MB) R3499336-2 02/10/20 22:11

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0137 | 0.0250 |
| Acrylonitrile | U | | 0.00190 | 0.0125 |
| Benzene | U | | 0.000400 | 0.00100 |
| Bromobenzene | U | | 0.00105 | 0.0125 |
| Bromodichloromethane | U | | 0.000788 | 0.00250 |
| Bromoform | U | | 0.00598 | 0.0250 |
| Bromomethane | U | | 0.00370 | 0.0125 |
| n-Butylbenzene | U | | 0.00384 | 0.0125 |
| sec-Butylbenzene | U | | 0.00253 | 0.0125 |
| tert-Butylbenzene | U | | 0.00155 | 0.00500 |
| Carbon tetrachloride | U | | 0.00108 | 0.00500 |
| Chlorobenzene | U | | 0.000573 | 0.00250 |
| Chlorodibromomethane | U | | 0.000450 | 0.00250 |
| Chloroethane | U | | 0.00108 | 0.00500 |
| Chloroform | U | | 0.000415 | 0.00250 |
| Chloromethane | U | | 0.00139 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000920 | 0.00250 |
| 4-Chlorotoluene | U | | 0.00113 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00510 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000525 | 0.00250 |
| Dibromomethane | U | | 0.00100 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.00145 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.00170 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.00197 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.000818 | 0.00250 |
| 1,1-Dichloroethane | U | | 0.000575 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000475 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000500 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000690 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00143 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00127 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000700 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.00175 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000678 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00153 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.000793 | 0.00250 |
| Di-isopropyl ether | U | | 0.000350 | 0.00100 |
| Ethylbenzene | U | | 0.000530 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.0127 | 0.0250 |
| Isopropylbenzene | U | | 0.000863 | 0.00250 |

## Method Blank (MB)

(MB) R3499336-2 02/10/20 22:11

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00233 | 0.00500 |
| 2-Butanone (MEK) | 0.0319 | | 0.0125 | 0.0250 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0100 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000295 | 0.00100 |
| Naphthalene | U | | 0.00312 | 0.0125 |
| n-Propylbenzene | U | | 0.00118 | 0.00500 |
| Styrene | U | | 0.00273 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000500 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000390 | 0.00250 |
| Tetrachloroethene | U | | 0.000700 | 0.00250 |
| Toluene | U | | 0.00125 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000675 | 0.00250 |
| 1,2,3-Trichlorobenzene | U | | 0.000625 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00482 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000275 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000883 | 0.00250 |
| Trichloroethene | U | | 0.000400 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000500 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00510 | 0.0125 |
| 1,2,3-Trimethylbenzene | U | | 0.00115 | 0.00500 |
| 1,2,4-Trimethylbenzene | U | | 0.00116 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00108 | 0.00500 |
| Vinyl chloride | U | | 0.000683 | 0.00250 |
| Xylenes, Total | U | | 0.00478 | 0.00650 |
| *(S) Toluene-d8* | *100* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *93.1* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *108* | | | *70.0-130* |

## Laboratory Control Sample (LCS)

(LCS) R3499336-1 02/10/20 20:31

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acetone | 0.625 | 0.556 | 89.0 | 10.0-160 | |
| Acrylonitrile | 0.625 | 0.641 | 103 | 45.0-153 | |
| Benzene | 0.125 | 0.0955 | 76.4 | 70.0-123 | |
| Bromobenzene | 0.125 | 0.128 | 102 | 73.0-121 | |
| Bromodichloromethane | 0.125 | 0.126 | 101 | 73.0-121 | |

## Laboratory Control Sample (LCS)

(LCS) R3499336-1 02/10/20 20:31

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.135 | 108 | 64.0-132 | |
| Bromomethane | 0.125 | 0.106 | 84.8 | 56.0-147 | |
| n-Butylbenzene | 0.125 | 0.109 | 87.2 | 68.0-135 | |
| sec-Butylbenzene | 0.125 | 0.119 | 95.2 | 74.0-130 | |
| tert-Butylbenzene | 0.125 | 0.114 | 91.2 | 75.0-127 | |
| Carbon tetrachloride | 0.125 | 0.119 | 95.2 | 66.0-128 | |
| Chlorobenzene | 0.125 | 0.123 | 98.4 | 76.0-128 | |
| Chlorodibromomethane | 0.125 | 0.102 | 81.6 | 74.0-127 | |
| Chloroethane | 0.125 | 0.112 | 89.6 | 61.0-134 | |
| Chloroform | 0.125 | 0.125 | 100 | 72.0-123 | |
| Chloromethane | 0.125 | 0.100 | 80.0 | 51.0-138 | |
| 2-Chlorotoluene | 0.125 | 0.135 | 108 | 75.0-124 | |
| 4-Chlorotoluene | 0.125 | 0.121 | 96.8 | 75.0-124 | |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.126 | 101 | 59.0-130 | |
| 1,2-Dibromoethane | 0.125 | 0.111 | 88.8 | 74.0-128 | |
| Dibromomethane | 0.125 | 0.108 | 86.4 | 75.0-122 | |
| 1,2-Dichlorobenzene | 0.125 | 0.110 | 88.0 | 76.0-124 | |
| 1,3-Dichlorobenzene | 0.125 | 0.136 | 109 | 76.0-125 | |
| 1,4-Dichlorobenzene | 0.125 | 0.0977 | 78.2 | 77.0-121 | |
| Dichlorodifluoromethane | 0.125 | 0.149 | 119 | 43.0-156 | |
| 1,1-Dichloroethane | 0.125 | 0.107 | 85.6 | 70.0-127 | |
| 1,2-Dichloroethane | 0.125 | 0.135 | 108 | 65.0-131 | |
| 1,1-Dichloroethene | 0.125 | 0.112 | 89.6 | 65.0-131 | |
| cis-1,2-Dichloroethene | 0.125 | 0.0959 | 76.7 | 73.0-125 | |
| trans-1,2-Dichloroethene | 0.125 | 0.107 | 85.6 | 71.0-125 | |
| 1,2-Dichloropropane | 0.125 | 0.109 | 87.2 | 74.0-125 | |
| 1,1-Dichloropropene | 0.125 | 0.0990 | 79.2 | 73.0-125 | |
| 1,3-Dichloropropane | 0.125 | 0.127 | 102 | 80.0-125 | |
| cis-1,3-Dichloropropene | 0.125 | 0.151 | 121 | 76.0-127 | |
| trans-1,3-Dichloropropene | 0.125 | 0.102 | 81.6 | 73.0-127 | |
| 2,2-Dichloropropane | 0.125 | 0.144 | 115 | 59.0-135 | |
| Di-isopropyl ether | 0.125 | 0.0996 | 79.7 | 60.0-136 | |
| Ethylbenzene | 0.125 | 0.119 | 95.2 | 74.0-126 | |
| Hexachloro-1,3-butadiene | 0.125 | 0.112 | 89.6 | 57.0-150 | |
| Isopropylbenzene | 0.125 | 0.109 | 87.2 | 72.0-127 | |
| p-Isopropyltoluene | 0.125 | 0.110 | 88.0 | 72.0-133 | |
| 2-Butanone (MEK) | 0.625 | 0.625 | 100 | 30.0-160 | |
| Methylene Chloride | 0.125 | 0.0939 | 75.1 | 68.0-123 | |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.589 | 94.2 | 56.0-143 | |
| Methyl tert-butyl ether | 0.125 | 0.130 | 104 | 66.0-132 | |

## Laboratory Control Sample (LCS)

(LCS) R3499336-1 02/10/20 20:31

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.104 | 83.2 | 59.0-130 | |
| n-Propylbenzene | 0.125 | 0.117 | 93.6 | 74.0-126 | |
| Styrene | 0.125 | 0.120 | 96.0 | 72.0-127 | |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.116 | 92.8 | 74.0-129 | |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.133 | 106 | 68.0-128 | |
| Tetrachloroethene | 0.125 | 0.132 | 106 | 70.0-136 | |
| Toluene | 0.125 | 0.105 | 84.0 | 75.0-121 | |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.118 | 94.4 | 61.0-139 | |
| 1,2,3-Trichlorobenzene | 0.125 | 0.132 | 106 | 59.0-139 | |
| 1,2,4-Trichlorobenzene | 0.125 | 0.101 | 80.8 | 62.0-137 | |
| 1,1,1-Trichloroethane | 0.125 | 0.122 | 97.6 | 69.0-126 | |
| 1,1,2-Trichloroethane | 0.125 | 0.105 | 84.0 | 78.0-123 | |
| Trichloroethene | 0.125 | 0.117 | 93.6 | 76.0-126 | |
| Trichlorofluoromethane | 0.125 | 0.135 | 108 | 61.0-142 | |
| 1,2,3-Trichloropropane | 0.125 | 0.127 | 102 | 67.0-129 | |
| 1,2,3-Trimethylbenzene | 0.125 | 0.113 | 90.4 | 74.0-124 | |
| 1,2,4-Trimethylbenzene | 0.125 | 0.125 | 100 | 70.0-126 | |
| 1,3,5-Trimethylbenzene | 0.125 | 0.133 | 106 | 73.0-127 | |
| Vinyl chloride | 0.125 | 0.120 | 96.0 | 63.0-134 | |
| Xylenes, Total | 0.375 | 0.318 | 84.8 | 72.0-127 | |
| *(S) Toluene-d8* | | | *100* | *75.0-131* | |
| *(S) 4-Bromofluorobenzene* | | | *96.6* | *67.0-138* | |
| *(S) 1,2-Dichloroethane-d4* | | | *105* | *70.0-130* | |

## Method Blank (MB)

(MB) R3498928-2 02/11/20 09:55

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrolein | U | | 0.00887 | 0.0500 |
| Acrylonitrile | U | | 0.00187 | 0.0100 |
| Benzene | U | | 0.000331 | 0.00100 |
| Bromobenzene | U | | 0.000352 | 0.00100 |
| Bromodichloromethane | U | | 0.000380 | 0.00100 |
| Bromoform | U | | 0.000469 | 0.00100 |
| Bromomethane | U | | 0.000866 | 0.00500 |
| n-Butylbenzene | U | | 0.000361 | 0.00100 |
| sec-Butylbenzene | U | | 0.000365 | 0.00100 |
| tert-Butylbenzene | U | | 0.000399 | 0.00100 |
| Carbon tetrachloride | U | | 0.000379 | 0.00100 |
| Chlorobenzene | U | | 0.000348 | 0.00100 |
| Chlorodibromomethane | U | | 0.000327 | 0.00100 |
| Chloroethane | U | | 0.000453 | 0.00500 |
| Chloroform | U | | 0.000324 | 0.00500 |
| Chloromethane | U | | 0.000276 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000375 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000351 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00133 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000381 | 0.00100 |
| Dibromomethane | U | | 0.000346 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000349 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000220 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000274 | 0.00100 |
| Dichlorodifluoromethane | U | | 0.000551 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000259 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000361 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000398 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000260 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000396 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000306 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000352 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000366 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000418 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000419 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000321 | 0.00100 |
| Di-isopropyl ether | U | | 0.000320 | 0.00100 |
| Ethylbenzene | U | | 0.000384 | 0.00100 |
| Hexachloro-1,3-butadiene | U | | 0.000256 | 0.00100 |

## Method Blank (MB)

(MB) R3498928-2 02/11/20 09:55

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Isopropylbenzene | U | | 0.000326 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000350 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00393 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00214 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000367 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000349 | 0.00100 |
| Styrene | U | | 0.000307 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000385 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000130 | 0.00100 |
| Tetrachloroethene | U | | 0.000372 | 0.00100 |
| Toluene | U | | 0.000412 | 0.00100 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000303 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000230 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000355 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000319 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000383 | 0.00100 |
| Trichloroethene | U | | 0.000398 | 0.00100 |
| Trichlorofluoromethane | U | | 0.00120 | 0.00500 |
| 1,2,3-Trichloropropane | U | | 0.000807 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000321 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000373 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000387 | 0.00100 |
| Vinyl chloride | U | | 0.000259 | 0.00100 |
| Xylenes, Total | U | | 0.00106 | 0.00300 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* |
| *(S) 4-Bromofluorobenzene* | *106* | | | *77.0-126* |
| *(S) 1,2-Dichloroethane-d4* | *101* | | | *70.0-130* |

## Laboratory Control Sample (LCS)

(LCS) R3498928-1 02/11/20 09:14

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acetone | 0.0250 | 0.0309 | 124 | 19.0-160 | |
| Acrolein | 0.0250 | 0.0143 | 57.2 | 10.0-160 | |
| Acrylonitrile | 0.0250 | 0.0256 | 102 | 55.0-149 | |
| Benzene | 0.00500 | 0.00521 | 104 | 70.0-123 | |

## Laboratory Control Sample (LCS)

(LCS) R3498928-1 02/11/20 09:14

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Bromobenzene | 0.00500 | 0.00447 | 89.4 | 73.0-121 | |
| Bromodichloromethane | 0.00500 | 0.00442 | 88.4 | 75.0-120 | |
| Bromoform | 0.00500 | 0.00433 | 86.6 | 68.0-132 | |
| Bromomethane | 0.00500 | 0.00559 | 112 | 10.0-160 | |
| n-Butylbenzene | 0.00500 | 0.00491 | 98.2 | 73.0-125 | |
| sec-Butylbenzene | 0.00500 | 0.00483 | 96.6 | 75.0-125 | |
| tert-Butylbenzene | 0.00500 | 0.00457 | 91.4 | 76.0-124 | |
| Carbon tetrachloride | 0.00500 | 0.00544 | 109 | 68.0-126 | |
| Chlorobenzene | 0.00500 | 0.00454 | 90.8 | 80.0-121 | |
| Chlorodibromomethane | 0.00500 | 0.00423 | 84.6 | 77.0-125 | |
| Chloroethane | 0.00500 | 0.00542 | 108 | 47.0-150 | |
| Chloroform | 0.00500 | 0.00527 | 105 | 73.0-120 | |
| Chloromethane | 0.00500 | 0.00467 | 93.4 | 41.0-142 | |
| 2-Chlorotoluene | 0.00500 | 0.00464 | 92.8 | 76.0-123 | |
| 4-Chlorotoluene | 0.00500 | 0.00478 | 95.6 | 75.0-122 | |
| 1,2-Dibromo-3-Chloropropane | 0.00500 | 0.00399 | 79.8 | 58.0-134 | |
| 1,2-Dibromoethane | 0.00500 | 0.00413 | 82.6 | 80.0-122 | |
| Dibromomethane | 0.00500 | 0.00462 | 92.4 | 80.0-120 | |
| 1,2-Dichlorobenzene | 0.00500 | 0.00451 | 90.2 | 79.0-121 | |
| 1,3-Dichlorobenzene | 0.00500 | 0.00474 | 94.8 | 79.0-120 | |
| 1,4-Dichlorobenzene | 0.00500 | 0.00461 | 92.2 | 79.0-120 | |
| Dichlorodifluoromethane | 0.00500 | 0.00615 | 123 | 51.0-149 | |
| 1,1-Dichloroethane | 0.00500 | 0.00494 | 98.8 | 70.0-126 | |
| 1,2-Dichloroethane | 0.00500 | 0.00495 | 99.0 | 70.0-128 | |
| 1,1-Dichloroethene | 0.00500 | 0.00542 | 108 | 71.0-124 | |
| cis-1,2-Dichloroethene | 0.00500 | 0.00509 | 102 | 73.0-120 | |
| trans-1,2-Dichloroethene | 0.00500 | 0.00503 | 101 | 73.0-120 | |
| 1,2-Dichloropropane | 0.00500 | 0.00486 | 97.2 | 77.0-125 | |
| 1,1-Dichloropropene | 0.00500 | 0.00538 | 108 | 74.0-126 | |
| 1,3-Dichloropropane | 0.00500 | 0.00463 | 92.6 | 80.0-120 | |
| cis-1,3-Dichloropropene | 0.00500 | 0.00518 | 104 | 80.0-123 | |
| trans-1,3-Dichloropropene | 0.00500 | 0.00450 | 90.0 | 78.0-124 | |
| 2,2-Dichloropropane | 0.00500 | 0.00580 | 116 | 58.0-130 | |
| Di-isopropyl ether | 0.00500 | 0.00462 | 92.4 | 58.0-138 | |
| Ethylbenzene | 0.00500 | 0.00441 | 88.2 | 79.0-123 | |
| Hexachloro-1,3-butadiene | 0.00500 | 0.00513 | 103 | 54.0-138 | |
| Isopropylbenzene | 0.00500 | 0.00464 | 92.8 | 76.0-127 | |
| p-Isopropyltoluene | 0.00500 | 0.00447 | 89.4 | 76.0-125 | |
| 2-Butanone (MEK) | 0.0250 | 0.0259 | 104 | 44.0-160 | |
| Methylene Chloride | 0.00500 | 0.00491 | 98.2 | 67.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R3498928-1 02/11/20 09:14

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | 0.0250 | 0.0218 | 87.2 | 68.0-142 | |
| Methyl tert-butyl ether | 0.00500 | 0.00564 | 113 | 68.0-125 | |
| Naphthalene | 0.00500 | 0.00417 | 83.4 | 54.0-135 | |
| n-Propylbenzene | 0.00500 | 0.00477 | 95.4 | 77.0-124 | |
| Styrene | 0.00500 | 0.00393 | 78.6 | 73.0-130 | |
| 1,1,1,2-Tetrachloroethane | 0.00500 | 0.00430 | 86.0 | 75.0-125 | |
| 1,1,2,2-Tetrachloroethane | 0.00500 | 0.00454 | 90.8 | 65.0-130 | |
| Tetrachloroethene | 0.00500 | 0.00456 | 91.2 | 72.0-132 | |
| Toluene | 0.00500 | 0.00456 | 91.2 | 79.0-120 | |
| 1,1,2-Trichlorotrifluoroethane | 0.00500 | 0.00617 | 123 | 69.0-132 | |
| 1,2,3-Trichlorobenzene | 0.00500 | 0.00460 | 92.0 | 50.0-138 | |
| 1,2,4-Trichlorobenzene | 0.00500 | 0.00480 | 96.0 | 57.0-137 | |
| 1,1,1-Trichloroethane | 0.00500 | 0.00539 | 108 | 73.0-124 | |
| 1,1,2-Trichloroethane | 0.00500 | 0.00475 | 95.0 | 80.0-120 | |
| Trichloroethene | 0.00500 | 0.00488 | 97.6 | 78.0-124 | |
| Trichlorofluoromethane | 0.00500 | 0.00588 | 118 | 59.0-147 | |
| 1,2,3-Trichloropropane | 0.00500 | 0.00439 | 87.8 | 73.0-130 | |
| 1,2,3-Trimethylbenzene | 0.00500 | 0.00463 | 92.6 | 77.0-120 | |
| 1,2,4-Trimethylbenzene | 0.00500 | 0.00465 | 93.0 | 76.0-121 | |
| 1,3,5-Trimethylbenzene | 0.00500 | 0.00474 | 94.8 | 76.0-122 | |
| Vinyl chloride | 0.00500 | 0.00503 | 101 | 67.0-131 | |
| Xylenes, Total | 0.0150 | 0.0131 | 87.3 | 79.0-123 | |
| *(S) Toluene-d8* | | | *100* | *80.0-120* | |
| *(S) 4-Bromofluorobenzene* | | | *104* | *77.0-126* | |
| *(S) 1,2-Dichloroethane-d4* | | | *103* | *70.0-130* | |

## Method Blank (MB)

(MB) R3499953-1 02/14/20 10:16

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| PCB 1016 | U | | 0.00350 | 0.0170 |
| PCB 1221 | U | | 0.00537 | 0.0170 |
| PCB 1232 | U | | 0.00417 | 0.0170 |
| PCB 1242 | U | | 0.00318 | 0.0170 |
| PCB 1248 | U | | 0.00315 | 0.0170 |
| PCB 1254 | U | | 0.00472 | 0.0170 |
| PCB 1260 | U | | 0.00494 | 0.0170 |
| *(S) Decachlorobiphenyl* | *80.9* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *64.0* | | | *10.0-139* |

## Laboratory Control Sample (LCS)

(LCS) R3499953-2 02/14/20 10:31

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| PCB 1260 | 0.167 | 0.141 | 84.4 | 37.0-145 | |
| PCB 1016 | 0.167 | 0.103 | 61.7 | 36.0-141 | |
| *(S) Decachlorobiphenyl* | | | *86.2* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *67.9* | *10.0-139* | |

## L1187565-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1187565-09 02/14/20 14:28 • (MS) R3499953-3 02/14/20 14:43 • (MSD) R3499953-4 02/14/20 14:59

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB 1260 | 0.167 | ND | 0.133 | 0.122 | 79.6 | 73.1 | 1 | 10.0-160 | | | 8.63 | 38 |
| PCB 1016 | 0.167 | ND | 0.0931 | 0.0816 | 55.7 | 48.9 | 1 | 10.0-160 | | | 13.2 | 37 |
| *(S) Decachlorobiphenyl* | | | | | *76.0* | *72.4* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *61.9* | *58.4* | | *10.0-139* | | | | |

## Method Blank (MB)

(MB) R3499694-3 02/12/20 17:21

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Anthracene | U | | 0.0000140 | 0.0000500 |
| Acenaphthene | U | | 0.0000100 | 0.0000500 |
| Acenaphthylene | U | | 0.0000120 | 0.0000500 |
| Benzo(a)anthracene | U | | 0.00000410 | 0.0000500 |
| Benzo(a)pyrene | U | | 0.0000116 | 0.0000500 |
| Benzo(b)fluoranthene | U | | 0.00000212 | 0.0000500 |
| Benzo(g,h,i)perylene | U | | 0.00000227 | 0.0000500 |
| Benzo(k)fluoranthene | U | | 0.0000136 | 0.0000500 |
| Chrysene | U | | 0.0000108 | 0.0000500 |
| Dibenz(a,h)anthracene | U | | 0.00000396 | 0.0000500 |
| Fluoranthene | U | | 0.0000157 | 0.0000500 |
| Fluorene | U | | 0.00000850 | 0.0000500 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0000148 | 0.0000500 |
| Naphthalene | U | | 0.0000198 | 0.000250 |
| Phenanthrene | U | | 0.00000820 | 0.0000500 |
| Pyrene | U | | 0.0000117 | 0.0000500 |
| 1-Methylnaphthalene | U | | 0.00000821 | 0.000250 |
| 2-Methylnaphthalene | U | | 0.00000902 | 0.000250 |
| 2-Chloronaphthalene | U | | 0.00000647 | 0.000250 |
| *(S) Nitrobenzene-d5* | *83.0* | | | *31.0-160* |
| *(S) 2-Fluorobiphenyl* | *92.5* | | | *48.0-148* |
| *(S) p-Terphenyl-d14* | *102* | | | *37.0-146* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3499694-1 02/12/20 16:36 • (LCSD) R3499694-2 02/12/20 16:58

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCSD Result mg/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Anthracene | 0.00200 | 0.00172 | 0.00167 | 86.0 | 83.5 | 67.0-150 | | | 2.95 | 20 |
| Acenaphthene | 0.00200 | 0.00169 | 0.00163 | 84.5 | 81.5 | 65.0-138 | | | 3.61 | 20 |
| Acenaphthylene | 0.00200 | 0.00179 | 0.00171 | 89.5 | 85.5 | 66.0-140 | | | 4.57 | 20 |
| Benzo(a)anthracene | 0.00200 | 0.00163 | 0.00164 | 81.5 | 82.0 | 61.0-140 | | | 0.612 | 20 |
| Benzo(a)pyrene | 0.00200 | 0.00157 | 0.00158 | 78.5 | 79.0 | 60.0-143 | | | 0.635 | 20 |
| Benzo(b)fluoranthene | 0.00200 | 0.00149 | 0.00154 | 74.5 | 77.0 | 58.0-141 | | | 3.30 | 20 |
| Benzo(g,h,i)perylene | 0.00200 | 0.00169 | 0.00174 | 84.5 | 87.0 | 52.0-153 | | | 2.92 | 20 |
| Benzo(k)fluoranthene | 0.00200 | 0.00162 | 0.00160 | 81.0 | 80.0 | 58.0-148 | | | 1.24 | 20 |
| Chrysene | 0.00200 | 0.00163 | 0.00162 | 81.5 | 81.0 | 64.0-144 | | | 0.615 | 20 |
| Dibenz(a,h)anthracene | 0.00200 | 0.00169 | 0.00175 | 84.5 | 87.5 | 52.0-155 | | | 3.49 | 20 |
| Fluoranthene | 0.00200 | 0.00172 | 0.00168 | 86.0 | 84.0 | 69.0-153 | | | 2.35 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3499694-1 02/12/20 16:36 • (LCSD) R3499694-2 02/12/20 16:58

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCSD Result mg/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | 0.00200 | 0.00173 | 0.00166 | 86.5 | 83.0 | 64.0-136 | | | 4.13 | 20 |
| Indeno(1,2,3-cd)pyrene | 0.00200 | 0.00169 | 0.00172 | 84.5 | 86.0 | 54.0-153 | | | 1.76 | 20 |
| Naphthalene | 0.00200 | 0.00161 | 0.00154 | 80.5 | 77.0 | 61.0-137 | | | 4.44 | 20 |
| Phenanthrene | 0.00200 | 0.00169 | 0.00162 | 84.5 | 81.0 | 62.0-137 | | | 4.23 | 20 |
| Pyrene | 0.00200 | 0.00159 | 0.00155 | 79.5 | 77.5 | 60.0-142 | | | 2.55 | 20 |
| 1-Methylnaphthalene | 0.00200 | 0.00168 | 0.00163 | 84.0 | 81.5 | 66.0-142 | | | 3.02 | 20 |
| 2-Methylnaphthalene | 0.00200 | 0.00161 | 0.00154 | 80.5 | 77.0 | 62.0-136 | | | 4.44 | 20 |
| 2-Chloronaphthalene | 0.00200 | 0.00170 | 0.00165 | 85.0 | 82.5 | 64.0-140 | | | 2.99 | 20 |
| *(S) Nitrobenzene-d5* | | | | *86.0* | *81.5* | *31.0-160* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | *92.5* | *89.5* | *48.0-148* | | | | |
| *(S) p-Terphenyl-d14* | | | | *97.5* | *99.0* | *37.0-146* | | | | |

## Method Blank (MB)

(MB) R3499333-2 02/12/20 20:38

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Anthracene | U | | 0.000600 | 0.00600 |
| Acenaphthene | U | | 0.000600 | 0.00600 |
| Acenaphthylene | U | | 0.000600 | 0.00600 |
| Benzo(a)anthracene | U | | 0.000600 | 0.00600 |
| Benzo(a)pyrene | U | | 0.000600 | 0.00600 |
| Benzo(b)fluoranthene | U | | 0.000600 | 0.00600 |
| Benzo(g,h,i)perylene | U | | 0.000600 | 0.00600 |
| Benzo(k)fluoranthene | U | | 0.000600 | 0.00600 |
| Chrysene | U | | 0.000600 | 0.00600 |
| Dibenz(a,h)anthracene | U | | 0.000600 | 0.00600 |
| Fluoranthene | U | | 0.000600 | 0.00600 |
| Fluorene | U | | 0.000600 | 0.00600 |
| Indeno(1,2,3-cd)pyrene | U | | 0.000600 | 0.00600 |
| Naphthalene | U | | 0.00200 | 0.0200 |
| Phenanthrene | U | | 0.000600 | 0.00600 |
| Pyrene | U | | 0.000600 | 0.00600 |
| 1-Methylnaphthalene | U | | 0.00200 | 0.0200 |
| 2-Methylnaphthalene | U | | 0.00200 | 0.0200 |
| 2-Chloronaphthalene | U | | 0.00200 | 0.0200 |
| *(S) Nitrobenzene-d5* | *109* | | | *14.0-149* |
| *(S) 2-Fluorobiphenyl* | *82.4* | | | *34.0-125* |
| *(S) p-Terphenyl-d14* | *95.4* | | | *23.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R3499333-1 02/12/20 20:16

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Anthracene | 0.0800 | 0.0657 | 82.1 | 50.0-126 | |
| Acenaphthene | 0.0800 | 0.0731 | 91.4 | 50.0-120 | |
| Acenaphthylene | 0.0800 | 0.0737 | 92.1 | 50.0-120 | |
| Benzo(a)anthracene | 0.0800 | 0.0686 | 85.8 | 45.0-120 | |
| Benzo(a)pyrene | 0.0800 | 0.0609 | 76.1 | 42.0-120 | |
| Benzo(b)fluoranthene | 0.0800 | 0.0700 | 87.5 | 42.0-121 | |
| Benzo(g,h,i)perylene | 0.0800 | 0.0652 | 81.5 | 45.0-125 | |
| Benzo(k)fluoranthene | 0.0800 | 0.0675 | 84.4 | 49.0-125 | |
| Chrysene | 0.0800 | 0.0716 | 89.5 | 49.0-122 | |
| Dibenz(a,h)anthracene | 0.0800 | 0.0664 | 83.0 | 47.0-125 | |
| Fluoranthene | 0.0800 | 0.0640 | 80.0 | 49.0-129 | |

## Laboratory Control Sample (LCS)

(LCS) R3499333-1 02/12/20 20:16

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Fluorene | 0.0800 | 0.0703 | 87.9 | 49.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.0800 | 0.0678 | 84.8 | 46.0-125 | |
| Naphthalene | 0.0800 | 0.0634 | 79.3 | 50.0-120 | |
| Phenanthrene | 0.0800 | 0.0686 | 85.8 | 47.0-120 | |
| Pyrene | 0.0800 | 0.0736 | 92.0 | 43.0-123 | |
| 1-Methylnaphthalene | 0.0800 | 0.0614 | 76.8 | 51.0-121 | |
| 2-Methylnaphthalene | 0.0800 | 0.0602 | 75.3 | 50.0-120 | |
| 2-Chloronaphthalene | 0.0800 | 0.0663 | 82.9 | 50.0-120 | |
| *(S) Nitrobenzene-d5* | | | *140* | *14.0-149* | |
| *(S) 2-Fluorobiphenyl* | | | *102* | *34.0-125* | |
| *(S) p-Terphenyl-d14* | | | *114* | *23.0-120* | |

## L1187561-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1187561-08 02/12/20 22:29 • (MS) R3499333-3 02/12/20 22:51 • (MSD) R3499333-4 02/12/20 23:13

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Anthracene | 0.0800 | ND | 0.0544 | 0.0620 | 68.0 | 77.5 | 1 | 10.0-145 | | | 13.1 | 30 |
| Acenaphthene | 0.0800 | ND | 0.0597 | 0.0680 | 74.6 | 85.0 | 1 | 14.0-127 | | | 13.0 | 27 |
| Acenaphthylene | 0.0800 | ND | 0.0603 | 0.0690 | 75.4 | 86.3 | 1 | 21.0-124 | | | 13.5 | 25 |
| Benzo(a)anthracene | 0.0800 | ND | 0.0532 | 0.0606 | 66.5 | 75.8 | 1 | 10.0-139 | | | 13.0 | 30 |
| Benzo(a)pyrene | 0.0800 | ND | 0.0561 | 0.0628 | 70.1 | 78.5 | 1 | 10.0-141 | | | 11.3 | 31 |
| Benzo(b)fluoranthene | 0.0800 | ND | 0.0519 | 0.0570 | 64.9 | 71.3 | 1 | 10.0-140 | | | 9.37 | 36 |
| Benzo(g,h,i)perylene | 0.0800 | ND | 0.0514 | 0.0566 | 64.3 | 70.8 | 1 | 10.0-140 | | | 9.63 | 33 |
| Benzo(k)fluoranthene | 0.0800 | ND | 0.0581 | 0.0656 | 72.6 | 82.0 | 1 | 10.0-137 | | | 12.1 | 31 |
| Chrysene | 0.0800 | ND | 0.0557 | 0.0627 | 69.6 | 78.4 | 1 | 10.0-145 | | | 11.8 | 30 |
| Dibenz(a,h)anthracene | 0.0800 | ND | 0.0534 | 0.0604 | 66.8 | 75.5 | 1 | 10.0-132 | | | 12.3 | 31 |
| Fluoranthene | 0.0800 | ND | 0.0509 | 0.0575 | 63.6 | 71.9 | 1 | 10.0-153 | | | 12.2 | 33 |
| Fluorene | 0.0800 | ND | 0.0573 | 0.0661 | 71.6 | 82.6 | 1 | 11.0-130 | | | 14.3 | 29 |
| Indeno(1,2,3-cd)pyrene | 0.0800 | ND | 0.0537 | 0.0599 | 67.1 | 74.9 | 1 | 10.0-137 | | | 10.9 | 32 |
| Naphthalene | 0.0800 | ND | 0.0567 | 0.0660 | 70.9 | 82.5 | 1 | 10.0-135 | | | 15.2 | 27 |
| Phenanthrene | 0.0800 | ND | 0.0548 | 0.0630 | 68.5 | 78.8 | 1 | 10.0-144 | | | 13.9 | 31 |
| Pyrene | 0.0800 | ND | 0.0576 | 0.0645 | 72.0 | 80.6 | 1 | 10.0-148 | | | 11.3 | 35 |
| 1-Methylnaphthalene | 0.0800 | ND | 0.0552 | 0.0667 | 69.0 | 83.4 | 1 | 10.0-142 | | | 18.9 | 28 |
| 2-Methylnaphthalene | 0.0800 | ND | 0.0530 | 0.0627 | 66.3 | 78.4 | 1 | 10.0-137 | | | 16.8 | 28 |
| 2-Chloronaphthalene | 0.0800 | ND | 0.0546 | 0.0621 | 68.3 | 77.6 | 1 | 29.0-120 | | | 12.9 | 24 |
| *(S) Nitrobenzene-d5* | | | | | *114* | *134* | | *14.0-149* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *80.9* | *93.0* | | *34.0-125* | | | | |
| *(S) p-Terphenyl-d14* | | | | | *87.2* | *99.9* | | *23.0-120* | | | | |

## Method Blank (MB)

(MB) R3499924-2 02/13/20 18:32

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Anthracene | U | | 0.000600 | 0.00600 |
| Acenaphthene | U | | 0.000600 | 0.00600 |
| Acenaphthylene | U | | 0.000600 | 0.00600 |
| Benzo(a)anthracene | U | | 0.000600 | 0.00600 |
| Benzo(a)pyrene | U | | 0.000600 | 0.00600 |
| Benzo(b)fluoranthene | U | | 0.000600 | 0.00600 |
| Benzo(g,h,i)perylene | U | | 0.000600 | 0.00600 |
| Benzo(k)fluoranthene | U | | 0.000600 | 0.00600 |
| Chrysene | U | | 0.000600 | 0.00600 |
| Dibenz(a,h)anthracene | U | | 0.000600 | 0.00600 |
| Fluoranthene | U | | 0.000600 | 0.00600 |
| Fluorene | U | | 0.000600 | 0.00600 |
| Indeno(1,2,3-cd)pyrene | U | | 0.000600 | 0.00600 |
| Naphthalene | 0.00547 | J | 0.00200 | 0.0200 |
| Phenanthrene | U | | 0.000600 | 0.00600 |
| Pyrene | U | | 0.000600 | 0.00600 |
| 1-Methylnaphthalene | U | | 0.00200 | 0.0200 |
| 2-Methylnaphthalene | U | | 0.00200 | 0.0200 |
| 2-Chloronaphthalene | U | | 0.00200 | 0.0200 |
| *(S) Nitrobenzene-d5* | *59.4* | | | *14.0-149* |
| *(S) 2-Fluorobiphenyl* | *71.6* | | | *34.0-125* |
| *(S) p-Terphenyl-d14* | *77.6* | | | *23.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R3499924-1 02/13/20 18:09

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Anthracene | 0.0800 | 0.0624 | 78.0 | 50.0-126 | |
| Acenaphthene | 0.0800 | 0.0619 | 77.4 | 50.0-120 | |
| Acenaphthylene | 0.0800 | 0.0636 | 79.5 | 50.0-120 | |
| Benzo(a)anthracene | 0.0800 | 0.0595 | 74.4 | 45.0-120 | |
| Benzo(a)pyrene | 0.0800 | 0.0520 | 65.0 | 42.0-120 | |
| Benzo(b)fluoranthene | 0.0800 | 0.0596 | 74.5 | 42.0-121 | |
| Benzo(g,h,i)perylene | 0.0800 | 0.0660 | 82.5 | 45.0-125 | |
| Benzo(k)fluoranthene | 0.0800 | 0.0625 | 78.1 | 49.0-125 | |
| Chrysene | 0.0800 | 0.0607 | 75.9 | 49.0-122 | |
| Dibenz(a,h)anthracene | 0.0800 | 0.0670 | 83.8 | 47.0-125 | |
| Fluoranthene | 0.0800 | 0.0632 | 79.0 | 49.0-129 | |

## Laboratory Control Sample (LCS)

(LCS) R3499924-1 02/13/20 18:09

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Fluorene | 0.0800 | 0.0633 | 79.1 | 49.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.0800 | 0.0668 | 83.5 | 46.0-125 | |
| Naphthalene | 0.0800 | 0.0573 | 71.6 | 50.0-120 | |
| Phenanthrene | 0.0800 | 0.0608 | 76.0 | 47.0-120 | |
| Pyrene | 0.0800 | 0.0559 | 69.9 | 43.0-123 | |
| 1-Methylnaphthalene | 0.0800 | 0.0609 | 76.1 | 51.0-121 | |
| 2-Methylnaphthalene | 0.0800 | 0.0576 | 72.0 | 50.0-120 | |
| 2-Chloronaphthalene | 0.0800 | 0.0620 | 77.5 | 50.0-120 | |
| *(S) Nitrobenzene-d5* | | | *68.9* | *14.0-149* | |
| *(S) 2-Fluorobiphenyl* | | | *77.0* | *34.0-125* | |
| *(S) p-Terphenyl-d14* | | | *80.7* | *23.0-120* | |

## L1187783-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1187783-04 02/13/20 19:39 • (MS) R3499924-3 02/13/20 20:02 • (MSD) R3499924-4 02/13/20 20:24

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Anthracene | 0.0776 | U | 0.0507 | 0.0307 | 65.3 | 39.2 | 1 | 10.0-145 | | J3 | 49.1 | 30 |
| Acenaphthene | 0.0776 | U | 0.0502 | 0.0306 | 64.7 | 39.0 | 1 | 14.0-127 | | J3 | 48.5 | 27 |
| Acenaphthylene | 0.0776 | U | 0.0520 | 0.0335 | 67.0 | 42.7 | 1 | 21.0-124 | | J3 | 43.3 | 25 |
| Benzo(a)anthracene | 0.0776 | U | 0.0485 | 0.0315 | 62.5 | 40.2 | 1 | 10.0-139 | | J3 | 42.5 | 30 |
| Benzo(a)pyrene | 0.0776 | U | 0.0472 | 0.0306 | 60.8 | 39.0 | 1 | 10.0-141 | | J3 | 42.7 | 31 |
| Benzo(b)fluoranthene | 0.0776 | U | 0.0442 | 0.0278 | 57.0 | 35.5 | 1 | 10.0-140 | | J3 | 45.6 | 36 |
| Benzo(g,h,i)perylene | 0.0776 | U | 0.0528 | 0.0304 | 68.0 | 38.8 | 1 | 10.0-140 | | J3 | 53.8 | 33 |
| Benzo(k)fluoranthene | 0.0776 | U | 0.0481 | 0.0312 | 62.0 | 39.8 | 1 | 10.0-137 | | J3 | 42.6 | 31 |
| Chrysene | 0.0776 | U | 0.0490 | 0.0335 | 63.1 | 42.7 | 1 | 10.0-145 | | J3 | 37.6 | 30 |
| Dibenz(a,h)anthracene | 0.0776 | U | 0.0545 | 0.0339 | 70.2 | 43.2 | 1 | 10.0-132 | | J3 | 46.6 | 31 |
| Fluoranthene | 0.0776 | U | 0.0507 | 0.0297 | 65.3 | 37.9 | 1 | 10.0-153 | | J3 | 52.2 | 33 |
| Fluorene | 0.0776 | U | 0.0514 | 0.0307 | 66.2 | 39.2 | 1 | 11.0-130 | | J3 | 50.4 | 29 |
| Indeno(1,2,3-cd)pyrene | 0.0776 | U | 0.0533 | 0.0314 | 68.7 | 40.1 | 1 | 10.0-137 | | J3 | 51.7 | 32 |
| Naphthalene | 0.0776 | U | 0.0472 | 0.0348 | 60.8 | 44.4 | 1 | 10.0-135 | | J3 | 30.2 | 27 |
| Phenanthrene | 0.0776 | U | 0.0487 | 0.0292 | 62.8 | 37.2 | 1 | 10.0-144 | | J3 | 50.1 | 31 |
| Pyrene | 0.0776 | U | 0.0456 | 0.0272 | 58.8 | 34.7 | 1 | 10.0-148 | | J3 | 50.5 | 35 |
| 1-Methylnaphthalene | 0.0776 | U | 0.0496 | 0.0322 | 63.9 | 41.1 | 1 | 10.0-142 | | J3 | 42.5 | 28 |
| 2-Methylnaphthalene | 0.0776 | U | 0.0474 | 0.0308 | 61.1 | 39.3 | 1 | 10.0-137 | | J3 | 42.5 | 28 |
| 2-Chloronaphthalene | 0.0776 | U | 0.0514 | 0.0331 | 66.2 | 42.2 | 1 | 29.0-120 | | J3 | 43.3 | 24 |
| *(S) Nitrobenzene-d5* | | | | | *58.0* | *45.9* | | *14.0-149* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *66.4* | *42.7* | | *34.0-125* | | | | |
| *(S) p-Terphenyl-d14* | | | | | *72.3* | *50.2* | | *23.0-120* | | | | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| ND | Not detected at the Reporting Limit (or MDL where applicable). |
| RDL | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| B | The same analyte is found in the associated blank. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| O1 | The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference. |

# ACCREDITATIONS & LOCATIONS



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN-03-2002-34 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | n/a |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LAO00356 |
| Kentucky [1 6] | 90010 | South Carolina | 84004 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana [1] | LA180010 | Texas | T104704245-18-15 |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN00003 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 460132 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |

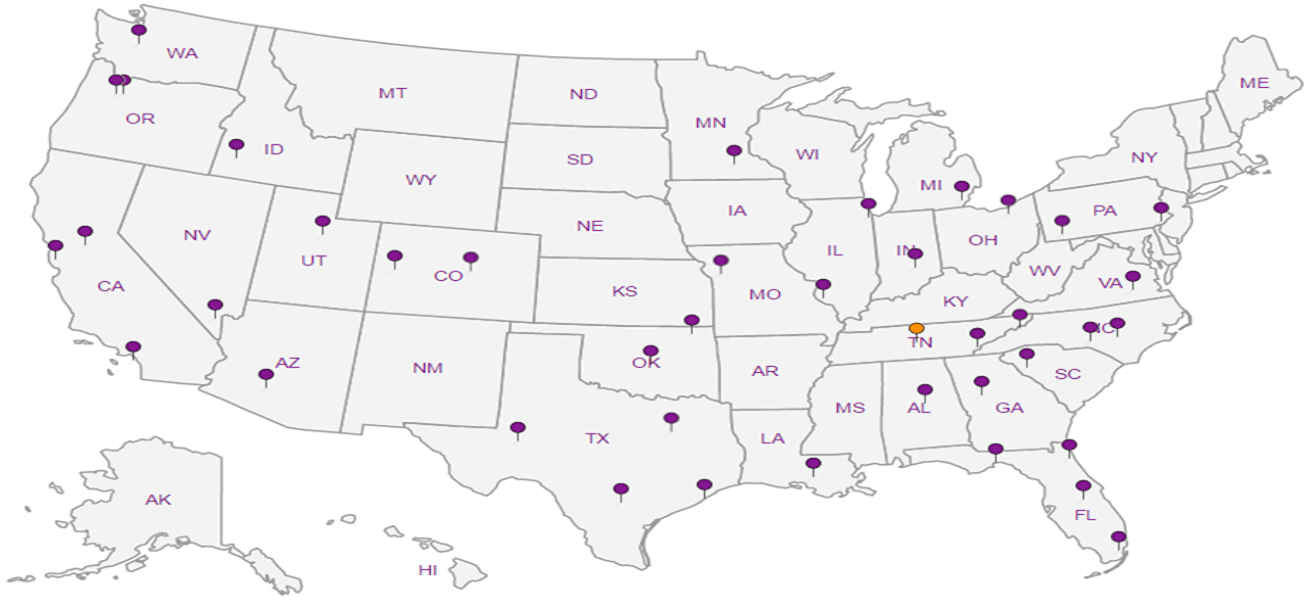
## Third Party Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



**ATC Group Services - Speedway**

2690 Memorial Blvd., Ste. D
Murfreesboro, TN 37129

Billing Information:
Brandie Lehman
PO Box 1510
Springfield, OH 45500

Pres Chk

Report to: Mr. Michael Lloyd

Email To: mark.a.thompson@atcgs.com; michael.lloyd@atcgs.com;

Project Description: Proposed Speedway 101184

City/State Collected:

Please Circle: PT MT CT ET

Phone:
Fax:

Client Project # Z029000833

Lab Project # ATCMTNSSA-101184

Collected by (print): Keith Yarrow

Site/Facility ID # 101184

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

*Rush?* (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | Metals 250mlHDPE-HNO3 | PAHSIMLVI 40mlAmb-NoPres-WT | RCRA Mtls, TS 2ozClr-NoPres | SV8270PAHSIM 4ozClr-NoPres | TCLP RCRA Mtls 8ozClr-NoPres | V8260 40mlAmb-HCl | V8260 40mlAmb/MeOH5ml/Syr | | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 184-14A 1-3 | G | SS | 1-3 | 2/6/20 | 1305 | 3 | | | X | X | | | X | | | | | -01 |
| 184-14 1-3 | G | SS | 1-3 | 2/6/20 | 1344 | 3 | | | X | X | | | X | | | | | 02 |
| 184-12A G-8 | G | SS | G-8 | 2/6/20 | 1505 | 4/3 | | | X | X | X | | X | | | | | 03/04 |
| 184-11 1-2 | G | SS | 1-2 | 2/7/20 | 900 | 3 | | | X | X | | | X | | | | | 05 |
| 184-35 G-8 | G | SS | G-8 | 2/7/20 | 942 | 3 | | | X | X | | | X | | | | | 06 |
| 184-33 4-6 | G | SS | 4-6 | 2/7/20 | 1024 | 3 | | | X | X | | | X | | | | | 07 |
| 184-29 G-8 | G | SS | G-8 | 2/7/20 | 1058 | 3 | | | X | X | | | X | | | | | 08 |
| 184-12 G-8 | | SS | G-8 | 2/7/20 | 1126 | 3 | | | X | X | | | X | | | | | 09 |
| 184-14C G-8 | | SS | G-8 | 2/6/20 | 938 | 0/3 | | | X | X | | | X | | | | | +05W |
| | | SS | | | | 3 | | | X | X | | | X | | | | | |

Chain of Custody Page ___ of ___

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # L1187565

Ta C162

Acctnum: ATCMTNSSA
Template: T162103
Prelogin: P752345
PM: 364 - T. Alan Harvill
PB: LC 1/24
Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # 1382 4818 7620

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N
RAD Screen <0.5 mR/hr: ✓Y __N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR |
|---|---|---|---|---|
| | 2/7 | 1545 | | |

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C | Bottles Received: | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|---|
| | | | | 0.4-3=0.1 | 4/9 | |

| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: | Time: | Hold: | Condition: |
|---|---|---|---|---|---|---|---|
| | | | | 2-8 | 0845 | | NCF / OK |

**ATC Group Services - Speedway**

2690 Memorial Blvd., Ste. D
Murfreesboro, TN 37129

Billing Information:
Brandie Lehman
PO Box 1510
Springfield, OH 45500

Report to: Mr. Michael Lloyd

Email To: mark.a.thompson@atcgs.com; michael.lloyd@atcgs.com;

Project Description: Proposed Speedway 101184

City/State Collected:

Please Circle: PT MT CT ET

Phone:
Fax:

Client Project # Z029000833

Lab Project # ATCMTNSSA-101184

Collected by (print):

Site/Facility ID # 101184

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

*Rush?* (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # L1187565

Table #

Acctnum: ATCMTNSSA
Template: T162103
Prelogin: P752345
PM: 364 - T. Alan Harvill
PB: LC 1/24

Shipped Via: FedEx Ground

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | Metals 250mlHDPE-HNO3 | PAHSIMLVI 40mlAmb-NoPres-WT | RCRA Mtls, TS 2ozClr-NoPres | SV8270PAHSIM 4ozClr-NoPres | TCLP RCRA Mtls 8ozClr-NoPres | V8260 40mlAmb-HCl | V8260 40mlAmb/MeOH5ml/Syr | | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 184-12A | G | SS | NA | 2/7 | 1235 | 6 ~~1~~ | X | X | | | ~~X~~ | X | | | | | | -10 |
| 184-18 | ↓ | SS | ↓ | ↓ | 1245 | 6 ~~1~~ | X | X | | | ~~X~~ | X | | | | | | 11 |
| 184-14A | ↓ | SS | ↓ | ↓ | 1326 | 6 ~~1~~ | X | X | | | ~~X~~ | X | | | | | | 12 |
| 184-35 | ↓ | GW | ↓ | ↓ | 1310 | 6 | X | X | | | | X | | | | | | 13 |
| | | GW | | | | ~~6~~ | ~~X~~ | ~~X~~ | | | | ~~X~~ | | | | | | |
| | | GW | | | | ~~6~~ | ~~X~~ | ~~X~~ | | | | ~~X~~ | | | | | | |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N
RAD Screen <0.5 mR/hr: ✓Y __N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR |
|---|---|---|---|---|
| [signature] | 2/7 | 1545 | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: Bm °C 0.4-3=0.1 Bottles Received: 49 |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) JJA | Date: 2-8 Time: 0845 |

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK